1

UNITED STATES DISTRICT COURT SOUTHERN DISTRICT OF INDIANA INDIANAPOLIS DIVISION CASE NO. 1:23-cv-00595-JPH-KMB

)

K.C., et al.,

Plaintiffs,

-vs-

THE INDIVIDUAL MEMBERS OF THE MEDICAL LICENSING BOARD OF INDIANA, in their official capacities, et al.,

Defendants.)

The deposition upon oral examination of PAUL W. HRUZ, M.D., PH.D., a witness produced and sworn before me, Dianne Lockhart, RMR, CRR, a Notary Public in and for the County of Marion, State of Indiana, taken on behalf of the Plaintiffs via videoconference in Manchester, St. Louis County, Missouri, on the 1st day of June, 2023, commencing at 9:30 a.m. pursuant to the Federal Rules of Civil Procedure.

> CIRCLE CITY REPORTING 135 North Pennsylvania Suite 1720 Indianapolis, IN 46204 (317) 635-7857

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| | ., et al. VS Individual Members of | f the Medical Licensing Board | PAUL W. HRUZ, M.D., PH June 1, 20 | | | | |
|----------|---|---|--------------------------------------|----|---|--|--|
| | | Page 2 | | | Page 4 | | |
| 1 | АРІ | PEARANCES | | - | - | | |
| 2 | FOR THE PLAINTIFFS: | Chase Strangio | | Ρ. | AUL W. HRUZ, M.D., PH.D., having | | |
| 3 | FOR THE PLANNIFFD. | AMERICAN CIVIL LIBERTIES UNION 125 Broad Street | 2 | | been first duly sworn to tell the truth, the | | |
| 4 | | 19th Floor New York, NY 10004 | 3 | | whole truth and nothing but the truth relating to | | |
| 5 | | cstrangio@aclu.org -and- | 4 | | said matter, was examined and testified as | | |
| 6 | | Kenneth J. Falk | 5 | | follows: | | |
| 7 | | ACLU OF INDIANA 1031 East Washington Street | 6 | DI | RECT EXAMINATION, | | |
| | | Indianapolis, IN 46202 kfalk@aclu-in.org | 7 | ~ | QUESTIONS BY CHASE STRANGIO: | | |
| 8 | | | 8 | Q | | | |
| 9 | FOR THE DEFENDANTS: | John D. Ramer COOPER & KIRK PLLC | 9 | | know we've met before. My name is Chase | | |
| 10 | | 1523 New Hampshire Ave., N.W. Washington, D.C. 20036 | 10 | | Strangio. I am with the ACLU based in New York | | |
| 11 | | jramer@cooperkirk.com | 11 | | representing the plaintiffs in this case and will | | |
| 12 | ALSO PRESENT: | Mylene Laughlin | 12 | | be asking you some some questions today. | | |
| 13 | | Shay Storz Brandon Splitter | 13 | | As we we noted earlier, we have Ken Falk | | |
| 14 | | Derek Smith | 14 | | from the ACLU of Indiana also here on Zoom, as | | |
| 15 | MODERATOR: | Kim Rocke | 15 | | well as some law student interns. | | |
| 16 | | Circle City Reporting | 16 | | Just to get us started, can you state and | | |
| 17 | | | 17 | | spell your full name for the record, please. | | |
| 18 | | | 18 | A | ······································ | | |
| 19 | | | 19 | Q | And you've had your deposition taken before; is | | |
| 20 | | | 20 | | that right? | | |
| 21 | | | | A | That is correct. | | |
| 22 | | | 22 | Q | So generally you know how this process goes. | | |
| 23 | | | | A | | | |
| 24 | | | 24 | Q | But just for the sake of laying all the ground | | |
| 25 | | | 25 | | rules for today, I'm just going to run through a | | |
| | | Dogo 2 | | | Dogo 5 | | |
| 1 | INDEX O | Page 3 F EXAMINATION | | | Page 5 | | |
| 2 | | PAGE | 1 | | few things to make sure we are on the same page, | | |
| 3 | DIRECT EXAMINATION Questions by Cha | | 2 | | if that's okay with you. | | |
| 4 | | | 3 | A | Very good. | | |
| 5 | | | 4 | Q | So when answering my questions, as you know, we | | |
| _ | | | 5 | | have a court reporter here, so I ask that you | | |
| 6 | | | 6 | | respond verbally. You know, nods and other sort | | |
| 7 | | | 7 | | of uh-uhms don't show up on the record, so can | | |
| 8 | INDEX Dependent of the second second | OF EXHIBITS PAGE | 8 | | you agree to that? | | |
| 9 | | closure of Expert Report | 9 | A | | | |
| 10 | 2 - Curriculum Vitae | M.D., Ph.D | 10 | Q | And also to help the court reporter, if you could | | |
| 11 | 4 - Testimony in Dek | ndt Case 13 ker Case 13 | 11 | | wait until I finish my question before answering, | | |
| 12 | 5 - (Not Used) 6 - Web Page for Emma | aus Road Press 50 | 12 | | as best we can not interrupt each other, that | | |
| 13 | Web Page | ion of The New Atlantis | 13 | | will make everything easier, so hopefully we can | | |
| 14 | | Transgender and Gender | 14 | | do that as well. | | |
| 15 | Diverse Persons Discrimination: | in the Setting of Proposed A Policy Perspective" 67 | | A | I will do my best to do so. | | |
| 16 | 10 - NCBQ Information | for Authors121 t of Transgenderism," | 16 | Q | And if you don't understand my question, which is | | |
| 17 | The National Cat | holic Bioethics Center125 ss-Sex Steroids in the | 17 | | very possible, at any given time please let me | | |
| 18 | | der Dysphoria"134 | 18 | | know and I can try to word it differently, but if | | |
| 19 | | | 19 | | you do answer, I will assume you understood it. | | |
| 20 | | | 20 | | Does that sound okay to you? | | |
| 21 | | | | A | | | |
| 22 | | | 22 | Q | And are you feeling okay today? | | |
| 23 | | | 23 | A | Yes. | | |
| | | | 24 | Q | And are you on any medication or is there any | | |
| 24 | | | c - | | roogon why your shility to or serve twether 11- | | |
| 24 25 | | | 25 | | reason why your ability to answer truthfully | | |

| Case 1:23-cv-00595-JPH-KMB K.C., et al. VS The Individual Members of the M | | Filed 06/12/23 | Page 3 of 107 PageID #: 3312 PAUL W. HRUZ, M.D., PH.D. June 1, 2023 |
|--|--------|----------------|---|
| | Page 6 | | Page 8 |

| 1 Uday would be impaired? 2 A No. 2 A no. 3 Q And is there any reason you don't feel like you 4 could give complete and ruthful testimony today? 5 A No. I think I'm propared. 6 Q Okay. And just one logistical point. We have 7 Kin here on - who's going to be uploading the 8 exhibits for us as we need them. If at any point 10 just let Kin Know and we can make sure it's it or the exhibits? I forwarded them over this 11 the exhibits. So. Imorning. 12 MR. RARMER: Yes, yes, I believe I have theat a farming medical care and recognizing 13 the exhibits. So. Imorning. 14 I dot network ith a few point and the resolution of a lawyer. but my understanding is it it deals with the provision of the thains. 15 MR. RAMER: Yes, yes, I believe I have theat atter of morning. Imorning. 15 MR. STRANGIO: Aka, Jawa, day ous aday ou bot og praper for your adresday. 16 goint care than you. Imorning the question that Yes asked you before we take the break. Does that sound okay? 17 M Ask tha for the basks. I was short y and was that sound you and a conversation with - with John earlier this weak. | | Page 6 | | | Page 8 |
|--|------|---|----|---|---|
| 2 A No. 2 And is there any reason you don't feel like you 3 Could give complete and truthul testimony today? 4 Could give complete and truthul testimony today? 5 A No. 1 think I'm prepared. 6 Cokay. And just one need them. If a tany point the subibits? 1 for warded them over this morning. 10 just let Kim Know and we can make sure its is an therefore or a lawyer, but my understanding is gender-affirming medical care and recognizing gender-affirming medical care and recognizing in the testibits? 1 forwarded them over this morning. 10 JMR. STRANGIO: And, John, do you have alto in the testifying as a legislator or a lawyer, but my understanding is intervention not be delivered in the state of all. I got the exhibits, so. 17 MR. STRANGIO: Okay. Great. So were - in this case; an answering the question that I'w asked you before a samewring the question that I'w asked you before a samewring the question that I'w asked you before a same system that is asked you before thereak. Does that sound okay? 10 Okay. So I think that's it for the basics. 1 the defendants as an expert in this case; is that 6 right? 10 A Well were all and when di you - did you speak with John. 3 questions on your involvement in this case? 10 Okay. So I think that's it for the basics. 1 the defendants as an expert in this case; is that 6 right? 11 ti was Corrine Youngs, contacted me asking me i ti was Corrine Youngs contacted me asking me i ti was corrine Youngs. And you corners a challenge to an landara list the deposition today. 12 A One of the lawyers from the DA's office, I think i a was field. 13 Q And when was that? 14 A I dor treeall the scate (ate I. I was short you corners a challenge to an landara is to continue that was field. 14 A I dor treeall the scate (ate I. I was short you corners a challenge to an landara is to continue that lis was the fold act that is toroninue to washort han you | 1 | today would be impaired? | 1 | Q | Have you ever spoken with a member of the Indiana |
| Q And is here any reason you don't feel like you Could give complete and truthul testimony today? Q Nay Son I think Tim prepared. Q Okay. And just one logistical point. We have Kim here on - who's going to be uploading the exhibits for us as we need them. If at any point it's not clear to you or you need to zoom in, just let Kim know and we can make sure it's visible to you. MR. STRANGIO: And, John, do you have all of morning. MR. STRANGIO: And, John, do you have all of and therefore legislating that live sees, and therefore legislating that that type of and therefore legislating that live asked you before Q So, and, Doctor, if there comes a time, of answering the question that I've asked you before we take the break. Does that sound okay? Q Okay. So I think that's it for the backs. I thooght we could start just with a few background questions on your involvement in this case. A SI understand it, you've been retained by the defindants as a expert in this case.? A And what di you speak with anyone expent of that is correct. Q And what any ou sid you had a conversation with John. G And whor with you dicusuesd, for how long di you - how did you come to be retained in this case? A And when was that? A And whe | 2 A | • | 2 | | • • |
| could give complete and (runth) testimony today? A No. I think I'm prepared. Q And did you speak with anyone about Senate Enrolled Act 480 while it was pending, to your k of the at any point is for us as we need them. If at any point is for us as we need them. If at any point is the testimate the first not clear to you or you need to zoom in, journal testimate and we can make sure it's not clear to you or you need to zoom in, is the testimate and we can make sure it's not clear to you or you need to zoom in, journal testimate and we can make sure it's not clear to you or you need to zoom in, journal testimate and the start is the kinks? I forwarded them over this morning. MR, RAMER: Yes, yes, thelieve have them all. I got the exhibits, so. I gottically I'm impressed with the start already. Q So, and, Doctr, if there comes a time, of course, during the deposition when you need a as answering the question that I've asked you before an any years. And I had a phone we take the break. Does that sound okay? A Very good. Page 7 Q Okay. So I think that's it for the basics. I to defermany scanse and exact at it, you've bear retained by retained in this case? A One of the lawyers from the DA's office. I think is a the ord was any expert in this case? A One of the lawyers from the DA's office. I think is after the lawsuit was filed. A One of the tawyers from the DA's office. I think is a the only conversation with John about this deposition thad, you scase that concerns a challenge to an Indiana. A Cloar the clear and exact date. It was shortly a case that concerns a challenge to an Indiana. A Mony did you - how did you come to be adding the indian. A Mony did you testify in support of the bill? A No. A No. A No. A No. A No. A Dat we not the scase that any point in this case? A No. A No. A Dat we not the saves | | | 3 | А | |
| 5 A No. Think I'm prepared. 6 Q Okay. So I think that's it for the basics. I answering the question that yea sked you before we take the break. Does that sound okay? 1 Q Okay. So I think that's it for the basics. I though twe could star just it hough twe could star just it he area the constand it, you're bear the dials, a duty or with John. 1 Page 7 1 Q Okay. So I think that's it for the basics. I though twe could star just it is case? 1 Q Okay. So I think that's it for the basics. I though twe could star just with a few background questions on your involvement in this case? 1 Q Okay. So I think that's it for the basics. I though twe could star just with a few background questions on your involvement in this case? 1 Q Okay. So I think that's it for the basics. I though twe could star just with a few background questions on your involvement in this case? 1 Q Okay. So I think that's it for the basics. I though twe could star just with a few background a cast that concerns a challenge to an Indiana. 1 Without telling me what what you discussed, a for how long did you did you speak with John. 1 Would be involved. 1 Would be involved. 1 Would be involved. 1 Would be involved. 2 A And when was that?? 1 A One of the lawyers from the DA's office. I think after the lawsuit was filed. 2 A And how did you how did you cast date. It was shorth? 3 A No. 4 A Done of the lawyers from the DA's office. I think after the lawsuit was filed. 3 A No. 4 A No. 5 A No. 5 A No. 6 A And how thill? 7 A No.<td>-</td><td></td><td>-</td><td></td><td>,</td> | - | | - | | , |
| 6 Q Okay. And just one logistical point. We have kim here on who's going to be uploading the exhibits for us as we need them. If at any point it's not clear to you or you need to zoom in, jour understanding of what Senate Errolled Act 480 does? 9 Just tek Kim know and we can make sure it's in's not clear to you or you need to zoom in, jour understanding is it lit deals with the provision of more standing is it lit deals with the provision of more standing is it lit deals with the provision of MR. RAMER: yes, yes, I believe 1 have them and therefore legislating that that type of intervention not be delivered in the state of MR. STRANGIO: Okay. Great. So were already. Q So, and, Doctor, if there comes a time, of course, during the deposition whon you need a break, I cet me know. I just ask that you finish that's it for the basics. I thought we could start just with a few background a questions on your involvement in this case; Q Okay. So I think that's it for the basics. I the defendants as an expert in this case; is that fright? Pape 9 Q Okay. So I think that's it for the basics. I twought we could start just with a few background a guestions on your involvement in this case; is the defendants as an expert in this case; is that fright? A T hat is correct. Q And when was that? A One of the lawyers from the DA's office. I think if a drift call was profiled det 480. Q And when was that? A One of the lawyers from the DA's office. I think is after the lawsuit was filed. Q And when was that? A C One of the lawyers from the DA's office. I think is after the lawsuit was filed. Q And when was that? A C One of the lawyers from the DA's office. I think is after the lawsuit was filed. Q And when was that? A C One of the lawyers wort when this law was pending in that after the lawsuit was filed. Q And when was that? A C One of the lawyers fro | | | | × | |
| Kim here on - who's going to be uploading the exhibits for us as we need them. If at any point is not clear to you or you need to zoom in, just let Kim know and we can make sure it's ivible to you. MR. STRANGIO: And John, do you have all of the exhibits? I forwarded them over this and therefore legislating medical care and recognizing the all light exhibits, so. MR. STRANGIO: Okay. Great. So we're - Indiana. Iogistically I'm impressed with the start of the all. I got the exhibits, so. Gostically I'm impressed with the start of the deposition then you need to possible to you. Iogistically I'm impressed with the start of the all. Logostical the deposition then you need to possible to you. Q. So, and, Doctor, if there comes a time, of a conversation with J'm and therefore legislating that that type of indiana. Indiana. Q. So, and, Doctor, if there comes a time, of a conversation with J'm constantly reviewing the literature, so I continued in that process, as I've done for many years. And I had a phone conversation with John. Q. Okay. So I think that's it for the basics. I thought we could start just with a few background questions on your involvement in this case; Q. Okay. So I think that's it for the basics. I thought we could start just with a few background questions on your involvement in this case; Q. And when what? Q. And how did you - how did you come to be retained in this case? Q. And when was that? A. I don' recall the exact date. It was shortly a filter the lawsuit was filed. Q. And when this - when this law was pending in the question on the bill? Q. And when this - when this law was pending in the filt as it cortinues to evolve. Q. And when this - when this law was pending in the filt as it cortinues to evolve. Q. And when this - when this la | | | | | · · · |
| exhibits for us as we need hem. If at any point is not clear to you or you need to zoom in, just let Kim know and we can make sure it's not clear to you. just let Kim know and we can make sure it's not full full full full full full full ful | - | | | Δ | 0 |
| if's not clear to you or you need to zoom in, just let Kim know and we can make sure it's visible to you. MR. STRANGIO: And John, do you have all of the exhibits? I forwarded them over this a morning. MR. RAMER: Yes, yes, Ibelieve I have them fail and therefore legislating that that type of intervention not be delivered in the state of Indiana. Indiana. Indiana. Indiana. Q. So, and, Doctor, if there comes a time, of a lorgistically I'm impressed with the start and therefore legislating that that type of indiana. Iterature, so I continued in that Process, as answering the question that I've asked you before we take the break. Does that sound okay? Q. Okay. So I think that's it for the basics. I the defendants as an expert in this case; is that of right? A more the laming in this case; is the defendants as an expert in this case; is the defendants as an expert in this case; is the defendants as an expert in this case; is the defendants as an expert in this case; is the a fund how did you — how did you come to b retained in this case? A Mo how did you — how did you come to b go retained in this case? A Mohow did you — how did you come to b go retained in this case? A Mohow did you and the 20 soffice. I think fart's it for the basis of this deposition today? A Mohow did you and you's and the timing. A Mohow did you and you's aware that this a case that concerns a challenge to an Indiana la gialature, did you take more than your declaration and you retwing the lintary on the state of the as it continues to evolve. A Mohow the sout this away pending in the Indiana legislature, did you take and the timing. A Correct. Q And when this law was pending in the Indiana legislature, did you take and point reviewing the lintariure? A No. A Doi' recall the exact date. It was shorly a lawas that the only conversation with onyone else at the – or anyon | | | | | |
| just let Kim know and we can make sure it's visible to you. MR. STRANGIO: And, John, do you have all of the exhibits? I forwarded them over this morning. MR. STRANGIO: And, John, do you have all of the exhibits? I forwarded them over this morning. MR. RAMER: Yes, yes, I believe I have them all. I got the exhibits, so. MR. STRANGIO: And, Got, Great. So we're already. Q So, and, Doctr, if there comes a time, of course, during the deposition when you need a laready. And what did you do to prepare for your deposition today? And what did you do to prepare for your deposition today? And what did you do to prepare for your deposition today? A Tead through my declaration that I recently submitted. I'm constantly reviewing the literature, so I continued in that process, as right? A Very good. Page 7 Q Okay. So I think that's if for the baskies. I the defendants as an expert in this case: A S I understand it, you've been retained by the defendants as an expert in this case? A And how did you - how did you come to be retained in this case? A And how did you - how did you come to be retained in this case? A And how did you - how did you come to be retained in this case? A And how did you - how did you come to be retained in this case? A And how mas that? A I don't recall the exact date. It was shortly after the lawsuit was filed. A Correct. Q And when was that? A Weil, at some point reviewed the declarations and your angoing review of the literature? A No. A No. A No. A Did you testify in support of the bill? A No. A Did you testify in support of the bill? A No. A Did you testify in support of the bill? A No. <l< td=""><td></td><td>5 1</td><td></td><td>Q</td><td></td></l<> | | 5 1 | | Q | |
| visible to you. MR. STRANGIO: And, John, do you have all of the exhibits? I forwarded them over this morning. MR. RAMER: Yes, yes, I believe 1 have them already. Q So, and, Doctor, if there comes a time, of already. Q So, and, Doctor, if there comes a time, of already. Q So, and, Doctor, if there comes a time, of answering the question that I've asked you before we take the break. Does that sound okay? A Very good. Page 7 Q Okay. So I think that's it for the basics. I thought we could start just with a few background questions on your involvement in this case; As I understand it, you've been retained by the defendants as an expert in this case; A And how did you how did you come to be g And how did you how did you come to g And how was that? A Gone of the lawyers from the DA's office, I think I and cherstone Autony de action that you factor? A Correct. Q And when was that? A Correct. Q And when was that? A Correct. Q And when was that? A Correct. Q And when this - when this law was pending in the a case that concerns a challenge to an Indiana A We hat some email communication just to have the deposition? A More the laws that? A More the laws that? A Correct. Q And when this - when this law was pending in the A No. B alw called Senate Enrolled Act 480? A No. A No.< | | | | ٨ | |
| 12MR. STRANGIO: And, John, do you have all of the exhibits? I forwarded them over this the moming.12it it deals with the provision of gender-affirming medical care and recognizing gender-affirming medical care and recognizing intervention not be delivered in the state of intervention not be delivered in the state of inte | | | | A | |
| the exhibits? I forwarded them over this morning. MR, RAMER: Yes, yes, I believe I have them morning. MR, RAMER: Yes, yes, I believe I have them morning. I got the exhibits, so. MR, STRANGIO: Okay. Great. So we'rention not be delivered in the state of more all constantly reviewing the deposition when you need a state and severe the state. It was that you finish a answering the question that I've asked you before the take the break. Does that sound okay? Q Okay. So I think that's it for the basics. I thought we could start just with a few background questions on your involvement in this case; is that fright? A I understand it, you've been retained by for the defendants as an expert in this case; is the defendants as an expert in this case; is the right? A One of the lawyers from the DA's office, I think 1 I'v ask office. I think 1 I've ask that? A One of the lawyers from the DA's office, I think 1 I've ask office. I think a called Sente the treall the exact date. It was shortly a firet the lawsuit was filed. A One of the lawyers from the DA's office. I think 1 I've ask office. I think a called Sente the correst a case that concerns a challenge to an Indiana I've ask office as the action office about the deposition? A Correct. Q And when was that? A Correct. Q And when this when this law was pending in the 2 positions on the bill? A Correct. A No. B law called Sente Enrolled Act 480? A No. B law called Sente Enrolled Act 480? A No. B law called Sente Enrolled Act 480? A No. A No. B law called Sente Enrolled Act 480? A No. B law called Sente Enrolled Act 480? A No. B law called Sente Enrolled Act 480? A No. A No. A No. B l | | • | | | |
| morning. MR. RAMER: Yes, yes, I believe I have the alt got the exhibits, so. Igot the exhibits, so. MR. STRANGIO: Okay. Great. So we're - logistically I'm impressed with the start already. Q So, and, Doctor, if there comes a time, of course, during the deposition when you need a break, let me know. I just ask that you finish at amswering the question that I've asked you before we take the break. Does that sound okay? A Very good. Page 7 Q Okay. So I think that's it for the basics. I thought we could start just with a few background questions on your involvement in this case; the defendants as an expert in this case; is the fright? A That is correct. Q And when was that? I would be involved. I would be involved. I would be involved. Q And when was that? A I don't recall the exact date. It was shortly a case that concerns a challenge to an Indiana a law called Senate Enrolled Act 480? Q And when his - when this law was pending in the a law called Senate Enrolled Act 480? Q And when his - when this law was pending in the I Indiana legislature, did you take any public A Correct. Q And when his - when this law was pending in the I Indiana legislature, did you take any public A No. Welh, I at some point reviewed the declarations and your ongoing review of the Q And when this - when this law was pending in the I Indiana legislature, did you take any public A No. D Did you testify in support of the bill? | 12 | - | | | |
| 15MR. RAMER: Yes, yes, I believe I have them16all. I got the exhibits, so.17MR. STRANGIO: Okay. Great. So we're18logistically I'm impressed with the start19already.20Q. So, and, Doctor, if there comes a time, of21course, during the deposition when you need a22break, let me know. I just ask that you finish23answering the question that I've asked you before24we take the break. Does that sound oka??25A26Ckay. So I think that's it for the basics. I2thought we could start just with a few background3questions on your involvement in this case;4A I understand it, you've been retained by5the defendants as an expert in this case;4A Somewhere between 30 and 45 minutes.5Q And how did you how did you come to be9retained in this case?10A One of the lawyers from the DA's office, I thint11twas Corrine Youngs, contacted me asking me if12I would be involved.13Q And when was that?14A I don't recall the exact date. It was shortly15a correct.16Q okay. Understood. And you're aware that this is17a case that concerns a challenge to an Indiana18Q And when was that?19A Correct.10Q And when was that?11acase that concerns a challenge to an Indiana12Indiana legislature, did you take any p | 13 | | | | |
| 16 all. I got the exhibits, so. 16 intervention not be delivered in the state of Indiana. 17 MR. STRANGIO: Okay. Great. So we're- 17 Indiana. 19 already. 20 So, and, Doctor, if there comes a time, of Indiana. 18 Q 20 So, and, Doctor, if there comes a time, of Leones, during the deposition when you need a break, let me know. I just ask that you finish answering the question that I've asked you before a we take the break. Does that sound okay? 20 A I read through my declaration that I recently submitted. I'm constantly reviewing the literature, so I continued in that process, as I've done for many years. And I had a phone conversation with - with John earlier this week. 25 A Very good. 20 A And you said you had a conversation with John. 21 Q Okay. So I think that's it for the basics. I thought we could start just with a few background questions on your involvement in this case; 1 Without telling me what what you discussed, for how long did you did you speak with John. 32 A I don how did you how did you come to be retained in this case? 1 Without telling me what what you discussed, for how long did you speak with Alond. 34 A I don't recall the exact date. It was shortly it was Corine? Youngs, contacted me asking me it a woorne? Youngs, contacted me asking me it after the lawsuit was filed. 10 And was that the on | 14 | | | | |
| 17MR. STRANGIO: Okay. Great. So we're logistically I'm impressed with the start already.17Indiana.19already.And what did you do to prepare for your deposition today?20Q. So, and, Doctor, if there comes a time, of course, during the deposition when you need a break, let me know. I just ask that you finish answering the question that I've asked you before we take the break. Does that sound okay?1021Q. Kay. So I think that's it for the basics. I thought we could start just with a few background questions on your involvement in this case; the defendants as an expert in this case; is that erained in this case?1Without telling me what what you discussed, about 1's deposition that you had?24Q. And how did you how did you come to be retained in this case?1Without telling me what what you discussed, about 1's deposition that you had?25Q. And how did you how did you come to be retained in this case?1Without telling me what what you discussed, about 1's deposition that you had?26A. One of the lawyers from the DA's office, I think it was Corrine Youngs, contacted me asking mei fi 121Q. And was that?25Q. And when was that?13A. Some email correspondence, again, the details, getting the link and and the timing.27a correct.20And when this when this law was pending in the positions on the bill?28A. One of the lawsuit was filed.1029A dother than concerns a challenge to an Indiana law called Senate Enrolled Act 480?1329A correct.10 <td>15</td> <td></td> <td></td> <td></td> <td></td> | 15 | | | | |
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| 25 A No. 25 Q And do you have anything with you today while | 24 Q | Did you testify in support of the bill? | 24 | | field as it continues to evolve. |
| | 25 A | No. | 25 | Q | And do you have anything with you today while |
| | 1 | | 1 | | |

PH.D.

| SE 1:23-CV-00595-JPH-KMB Document 58-5 Fil K.C., et al. VS The Individual Members of the Medical Licensing Board | led 06/12/23 Page 4 of 107 PageID #: 3313 PAUL W. HRUZ, M.D., PH.D. June 1, 2023 |
|--|--|
| Page 10 | Page 12 |
| we're doing this deposition? A I have nothing physically with me. The only | anything changed since you filed it?A No. |

5 A

8 Q 9 A

10 O

12 A

14 Q

15 A

16 Q

20 A

21 O

23 A

1 O

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зО And so nothing you would like to amend or 4 correct?

Exhibit 2, Kim. Thank you.

additions in the last week.

At best I know, correct.

that right?

That is correct.

That is correct.

MR. STRANGIO: Okay. If we could pull up

So, Doctor, does this -- what is this document?

This is a recent copy of my curriculum vitae.

And I see it's dated 5-26-23. Is that current as

And in the past year, you have testified in two

gender-affirming medical care to adolescents; is

And that would be the Brandt case in Arkansas and

MR. STRANGIO: And so I want to pull up what

And does this, Dr. Hruz, appear to be your

testimony -- and we'll scroll through actually a

Yes. There's been -- there have been no

of today's date as well, June 1, 2023?

And so nothing missing from it?

trials related to the provision of

the Dekker case in Florida?

is marked as Exhibit 3.

That is correct.

- is on my computer is my declaration.
- Okay. Understood. And so if you at any point 5 Q consult something, I may ask you about it and --6

document I have that is not opened right now but

- and would ask that you then just turn that over 7
- to us, but for now I understand the only thing 8
- 9 that you may look at is your declaration; is that right? 10
- Α

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2 Q

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5 6 0

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9 Α

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11 0

12 Α

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16 Α

17 0

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23 Α

24

25 Q

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Q

14 Q

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- That is correct. 11
- 12 0 Okay. So I want to just mark some exhibits to
- get us started that we'll probably be referencing 13
- throughout the day and try to make it a little 14 15 easier, just to get that out of the way.
- MR. STRANGIO: So if -- if, Kim, you could 16
- pull up what is premarked as Exhibit 1, that 17
- would be great. And so I want to go ahead mark 18
- this as Exhibit 1 and -- we're almost there. We 19
- saw it and then --20
- 21 Q Okay. Dr. Hruz, do you recognize this document? 22 А
- This looks like the first page of my declaration 23 in this case.
- MR. STRANGIO: And -- and, Kim, if you could 24 24 just scroll -- you can see it's 52 pages. Maybe 25 25

And does this appear to be, Dr. Hruz, a true and

just scroll through a little bit.

That which I'm able to see, yes.

editing, but this is my work product.

And did you discuss it with anyone?

Yes, I did, with the -- with John and the

And did you discuss it with any of the other

experts retained by the defendants in this case?

And does this declaration represent a complete

statement of the opinions you intend to provide

And are you aware of any inaccuracies in the

It is accurate and complete to the best of my

I know that you just filed it last week, but has

declaration that you submitted?

Did anyone help you?

defendant lawyers.

in this matter?

knowledge.

in this case?

I did.

No.

Yes.

- - - Page 11

Page 13

- accurate copy of the declaration that you filed little bit, but your testimony from the Brandt 3 case in Arkansas? 4 I don't know that I've seen this document, but 5 A Okay. And -- and who wrote this declaration? 6 from what I can see here, that's what it looks 7 like, yes. 8 O And then we can see -- just so you see the beginning. So this looks like, as you recall, There was some formatting and typographical 9 your direct examination in the -- in the Arkansas 10
 - trial; is that right? 11
 - 12 A Well, what I see is very limited, but that's what it appears to be, yes. 13
 - 14 O And was the testimony that you gave in the Brandt 15 case accurate?
 - 16 A Yes, to the best of my ability, yes. MR. STRANGIO: And I want to now pull up
 - what's marked as Exhibit 4.
 - And, Kim, if you could just scroll through a little bit. I think it's going to be about 15 or so pages in. You can see at the top when it reaches Paul Hruz Direct.
 - 23 Q But so looking at this document as we scroll through it, Dr. Hruz, does this appear to be the 24 25 transcript of your testimony at the Dekker trial

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| dividual Members of the Medical Licensing Board | | | June 1, 20 |
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| 0 | | | Page 1 |
| | | | - |
| | | A | |
| | | | that I can recall from my records of the case |
| | - | 0 | that I've been involved in. |
| | | Q | • • |
| | | | Tavistock case in the United Kingdom? |
| | | A | 1 2 |
| | | | provided information for them related to the |
| | _ | | relative risks and benefits of gender-affirming |
| • | | 0 | care within my area of expertise. |
| | | Q | 5 |
| | | | currently working on expert reports or have been |
| 0 | | ۸ | retained but they have not yet been submitted |
| • • • | | | |
| | | _ | |
| • • | | | |
| | | Q | government officials in these cases and offere |
| | | | yourself as an expert witness? |
| | | | MR. RAMER: Objection to form. |
| • | | Δ | • |
| | | 11 | I've actually tried very hard with my schedule t |
| | | | limit my my involvement, but, no, I've no |
| | | | reached out to anybody to participate. |
| | | 0 | |
| recall. | 25 | | you spend serving as an expert witness in cases |
| Page 15 | | | Page 7 |
| And these cases a number of years ago, you said | 1 | А | It's quite variable. I would say that it's |
| they're not related to gender dysphoria. What | 2 | | could be anywhere from a couple of hours. |
| were they related to? | 3 | | don't I'd have to look at at how many hour |
| There was a case related to an adverse event in a | 4 | | I do. My my necessity in my role, because m |
| patient with diabetes. There was a case | 5 | | full-time job is a pediatric endocrinologist an |
| involving adverse effects of treatment with an | 6 | | physician scientist at Washington University an |
| antipsychotic medication leading to metabolic | 7 | | that is my primary responsibility, so all of m |
| | 8 | | involvement in this work is done on my privat |
| | 9 | | time and trying to balance those |
| | 10 | | responsibilities, so it's less than one day a |
| | | ~ | week. |
| | | Q | |
| | | | estimation of about how many hours you've sper |
| - | | ٨ | serving as an expert witness? |
| • • • • | | ~ | , |
| | | _ | |
| | | - | |
| - · · | | | |
| - | | A | |
| | | | would say that I wouldn't be able to know that |
| South Dakota case actually was deposed or not. | 21 | | off the top of my head. |
| | Page 15 And these cases a number of years ago, you said they're not related to gender dysphoria. What were they related to? There was a case related to an adverse event in a patient with diabetes. There was a case involving adverse effects of treatment with an | in Florida?1Well, again, I've not previously seen this document, but what we're scrolling through here looks like a reflection of what was testified in that case.3And was the testimony that you gave in the Dekker case accurate?7Yes, to the best of my knowledge.8Okay. I think we can we can take we can take this down for now and well come back to some of these exhibits. I just wanted to to get that out of the way.12So you you mentioned that you've been deposed before. How many how many times, would you say?13That's listed in my declaration as far as the cases that I've been deposed or have testified at trial.17Man nothing other than what's listed in your declaration?20I'm trying to there were a couple of cases many years ago that were unrelated to gender issues. I didn't keep records at that time, but I tried to put everything in there that I can recall.1Page 15And these cases a number of years ago, you said they're not related to gender dysphoria. What were they related to?1There was a case related to an adverse event in a | in Florida?1Well, again, I've not previously seen this document, but what we're scrolling through here looks like a reflection of what was testified in that case.1And was the testimony that you gave in the Dekker case accurate?6Yes, to the best of my knowledge. Okay. I think we can we can take we can take this down for now and we'll come back to some of these exhibits. I just wanted to to get that out of the way. So you you mentioned that you've been deposed before. How many how many times, would you say?10That's listed in my declaration as far as the cases that I've been deposed or have testified at trial. And nothing other than what's listed in your declaration?16Page 151AAnd these cases a number of years ago, you said they're not related to gender dysphoria. What were they related to?1And these cases a number of years ago, you said they're not related to an adverse event in a patient with diabetes. There was a case involving adverse effects of treatment with an antipsychotic medication leading to metabolic disorders. There was a case related to medication effects causing gynecomastia. And were you serving as an expert witness in these cases? Yes, I was.1In the ones that I just mentioned. And there was also one on congenital hypothyroidism, as I recall.1And are there any other cases in which you were involved as an expert witness but you were not deposed?13A1415A16Q17131814191510151016 |

- 22 Q But approximately one day a week you would say on 23 average?
- I would say less than one day a week. 24 A
- 25 Q Understood. And have you ever testified in any

That case was closed prior to completion, so.

no other cases other than the general ones that

23 Q I do believe you were deposed in that case, but

you've listed out on your declaration?

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| i ne n | ndividual Members of the Medical Licensing Board | | | June 1, 20 |
|------------|---|----|---|--|
| | Page 18 | | | Page 2 |
| 1 | state legislatures over legislation concerning | 1 | | Endocrinology and Diabetes, those administrativ |
| 2 | transgender people or treatment of gender | 2 | | responsibilities have have decreased as well |
| 3 | dysphoria? | 3 | | MR. STRANGIO: And and if we could pu |
| 4 A | | 4 | | up Exhibit 2, page 1 of this is your CV again |
| 5 | testify to the scientific evidence related to an | 5 | | THE MODERATOR: I'm sorry, I didn't cate |
| 6 | issue involving gender care. | 6 | | what you said. |
| 7 Q | | 7 | | MR. STRANGIO: Sorry. If you could pull u |
| 8 A | | 8 | | Exhibit 2 and go to page 1, Kim. Thank you. An |
| 9 | exact date. | 9 | | scroll down just a bit. |
| LO Q | But within the last three years? | 10 | Q | 5 |
| 11 À | | 11 | | employment, it looks like prior to 1997 you wer |
| 12 Q | And was that on a bill concerning the provision | 12 | | with a physician group in Seattle; is that righ |
| L3 | of gender-affirming care to minors? | 13 | | Dr. Hruz? |
| 14 A | 6 6 | 14 | А | That was during my residency training. I wa |
| 15 Q | So what what is your current job, Dr. Hruz? | 15 | | doing some moonlighting work in a neonat |
| L6 À | • • | 16 | | intensive care unit. |
| L7 | physician scientist at Washington University. | 17 | Q | And between 1997 and 2000, there's nothing liste |
| L8 | And my professional responsibilities involve | 18 | | in your employment. What were you doing durin |
| L 9 | direct patient care, scientific research and | 19 | | those years? |
| 20 | education of trainees, residents, fellows and | 20 | А | I was in my fellowship training at Washington |
| 21 | medical students, and I also have some | 21 | | University in St. Louis. |
| 22 | administrative responsibilities. | 22 | Q | So you arrived at Washington University in 1997 |
| 23 Q | - | 23 | À | |
| 24 A | | 24 | Q | And I know that that you have just said th |
| 25 | University since 1997, and I joined the faculty | 25 | | in some to some effect, but is it correct the |
| | Page 19 | | | Page |
| 1 | in 2000, so I've been at Washington University my | 1 | | you are an endocrinologist? |
| 2 | entire career. | 2 | А | |
| зQ | And have you had the same responsibilities for | 3 | Q | And so what conditions as a pediatric |
| 4 | your entire career at Washington University? | 4 | | endocrinologist do you treat patients for? |
| 5 A | No. I was formerly the chief of our Division of | 5 | А | So as a pediatric endocrinologist, we trea |
| 6 | Endocrinology and Diabetes. I did that for five | 6 | | patients from birth all the way to the early 20 |
| 7 | years. I also previously served as the director | 7 | | involving disorders of the endocrine system. H |
| 8 | of our fellowship program. That's a position | 8 | | that, that means disorders that involve hormon |
| 9 | I I am currently serving as associate | 9 | | that are secreted from one part of the body |
| LO | director. And the division of my labor has | 10 | | circulated through the bloodstream and ac |
| L1 | has changed over the years as far as the | 11 | | distally at other organs. It includes the |
| L2 | partitioning of time spent in research versus | 12 | | treatment of patients with metabolic disorder |
| L3 | clinical care versus teaching. | 13 | | diabetes mellitus, dyslipidemia, pubertal |
| 14 Q | And currently what is the division of your time | 14 | | disorders, thyroid disorders, disorders of the |
| L5 | between research, clinical care and teaching? | 15 | | pituitary gland, disorders of sexual developmer |
| 6 A | Currently I'm doing more patient care. As my | 16 | | a whole bone diseases. I tried to outline |
| L7 | research career has evolved, I've become involved | 17 | | my declaration the scope, and that's contained |
| .8 | in drug discovery efforts. Many of these efforts | 18 | | within that document. |
| L 9 | do not require a hands-on presence in my | 19 | Q | And you mentioned that you treat patients u |
| | laboratory rather with collaborations and | | | to to their early 20 stig that is that |

- 20 to -- to their early 20s; is that -- is that 21 right?
- We will generally follow patients through 22 A college, and I have a few patients that I -- with very complex disorders that are rare enough that the adult physicians are not familiar with caring

laboratory, rather with collaborations and

involvement with contract research organizations.

My time, because I'm the associate director and

not director of the fellowship program, requires

somewhat less involvement. And certainly since I

stepped down as chief of the Division of

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| | nd | al. VS lividual Members of the Medical Licensing Board | | | PAUL W. HRUZ, M.D., PH.I June 1, 202 |
|--|------------------|--|--|------------------|---|
| I IIC I | inu | Page 22 | | | Page 24 |
| | | - | | | - |
| 1 | | for that, so we will, on rare exceptions, see | 1 | | them to the care that they need, I think that's a |
| 2 | | them even later than that, but, in general, we | 2 | | role that all pediatric endocrinologists are |
| 3 | | try to transition them to adult care by the time | 3 | 0 | involved in. |
| 4 | ` | they finish college. | | Q | And so you treat patients for endocrine |
| | 2 | And is it common, would you say, for | 5 | | conditions that also have co-occurring mental |
| 6 | | pediatricians to see patients after the age of | 6 | ٨ | health conditions? |
| 7 | | 18? MB_DAMED: Objection to form | | A | I certainly have encountered patients that have |
| 8 | ٨ | MR. RAMER: Objection to form. | 8 | | endocrine disorders that also have psychiatric conditions, and in some situations it directly |
| 9 A | - | Yes. So at least in my profession as a pediatric endocrinologist at an academic center, we will | 9 10 | | affects the care of that patient, yes. |
| 10 11 | | recognize that much of the development that | | Q | And do you have any formal educational training |
| 12 | | occurs is not completed at age 18. I know that | 12 | V | in the provision of mental health treatment? |
| 13 | | many primary care pediatric practices will | 13 | Δ | I think all medical students in part of their |
| 14 | | require patients to transition to adult care as | 14 | 11 | training rotate in psychiatry and have experience |
| 15 | | they turn 18, but that is not the case at at | 15 | | in psychology in their training, and it is also |
| L6 | | Washington University, nor most other academic | 16 | | something that occurs throughout one's career. |
| L7 | | centers. | 17 | | In fact, we have monthly psychosocial rounds |
| 18 Q |) | And you're not a psychiatrist; right? | 18 | | where we in fact, we're having one this |
| 19 Å | | I have not been formally trained or certified in | 19 | | afternoon where we're presenting psychosocial |
| 20 | | psychiatry. My limitation in addressing | 20 | | issues that are affecting the care of our |
| 21 | | psychiatric issues relates to my practice as a | 21 | | patients with diabetes. |
| 22 | | pediatric endocrinologist. I do need to have | | Q | So other than in medical school and in ongoing |
| 23 | | some familiarity with psychiatric conditions as | 23 | | rounds in your clinical practice, do you have any |
| 24 | | it pertains to the proper care of my patients. | 24 | | formal training with respect to the provision of |
| 25 Q | Ç | But just as to certified, you are not a | 25 | | mental healthcare? |
| | | | | | |
| | | Page 23 | | | Page 25 |
| 1 | | psychiatrist? | 1 | ٨ | They also have many times in our pediatric and |
| | | | - | A | They also have many times in our pediatre and |
| 2 A | 4 | I'm not a certified psychiatrist, correct. | 2 | A | |
| 2 P 3 (| | And you're not a psychologist? | | A | medicine grand rounds delivered topics related to those issues as well. It's part of some of the |
| | Q | And you're not a psychologist? I am not a certified psychologist, correct. | 2 | A | medicine grand rounds delivered topics related to those issues as well. It's part of some of the |
| з (| Q A | And you're not a psychologist? | 2 3 | A | medicine grand rounds delivered topics related to those issues as well. It's part of some of the questioning in maintenance of certification, and |
| з (4 А | Q A | And you're not a psychologist? I am not a certified psychologist, correct. And you're not an uncertified psychologist either, I assume? | 2 3 4 | A | medicine grand rounds delivered topics related to those issues as well. It's part of some of the questioning in maintenance of certification, and so I would say that I do have ongoing exposure to these issues, again, as it pertains to my |
| з (4 А 5 (| Q A | And you're not a psychologist? I am not a certified psychologist, correct. And you're not an uncertified psychologist either, I assume? MR. RAMER: Objection to form. | 2 3 4 5 | A | medicine grand rounds delivered topics related to those issues as well. It's part of some of the questioning in maintenance of certification, and so I would say that I do have ongoing exposure to these issues, again, as it pertains to my practice as a pediatric endocrinologist. |
| 3 (4 A 5 (6 | 2 2 2 | And you're not a psychologist? I am not a certified psychologist, correct. And you're not an uncertified psychologist either, I assume? MR. RAMER: Objection to form. I would say all physicians participate in | 2 3 4 5 6 7 | A Q | medicine grand rounds delivered topics related to those issues as well. It's part of some of the questioning in maintenance of certification, and so I would say that I do have ongoing exposure to these issues, again, as it pertains to my practice as a pediatric endocrinologist. Would you consider yourself an expert in in |
| 3 (4 A 5 (6 7 | 2 2 2 | And you're not a psychologist? I am not a certified psychologist, correct. And you're not an uncertified psychologist either, I assume? MR. RAMER: Objection to form. I would say all physicians participate in psychological issues in the care of their | 2 3 4 5 6 7 | | medicine grand rounds delivered topics related to those issues as well. It's part of some of the questioning in maintenance of certification, and so I would say that I do have ongoing exposure to these issues, again, as it pertains to my practice as a pediatric endocrinologist. Would you consider yourself an expert in in the provision of mental health care? |
| 3 (4 A 5 (6 7 8 A 9 | 2 2 2 | And you're not a psychologist? I am not a certified psychologist, correct. And you're not an uncertified psychologist either, I assume? MR. RAMER: Objection to form. I would say all physicians participate in psychological issues in the care of their patients, so to that extent, it's limited to my | 2 3 4 5 6 7 8 9 10 | | medicine grand rounds delivered topics related to those issues as well. It's part of some of the questioning in maintenance of certification, and so I would say that I do have ongoing exposure to these issues, again, as it pertains to my practice as a pediatric endocrinologist. Would you consider yourself an expert in in the provision of mental health care? It depends on on how you define expert. I are |
| 3 (4 A 5 (6 7 8 A 9 L0 L1 | 2 4 2 4 | And you're not a psychologist? I am not a certified psychologist, correct. And you're not an uncertified psychologist either, I assume? MR. RAMER: Objection to form. I would say all physicians participate in psychological issues in the care of their patients, so to that extent, it's limited to my role as a pediatric endocrinologist. | 2 3 4 5 6 7 8 9 10 11 | Q | medicine grand rounds delivered topics related to those issues as well. It's part of some of the questioning in maintenance of certification, and so I would say that I do have ongoing exposure to these issues, again, as it pertains to my practice as a pediatric endocrinologist. Would you consider yourself an expert in in the provision of mental health care? It depends on on how you define expert. I arr a pediatric endocrinologist and I deliver care to |
| 3 (4 A 5 (6 7 8 A 9 10 11 | 2 4 2 4 | And you're not a psychologist? I am not a certified psychologist, correct. And you're not an uncertified psychologist either, I assume? MR. RAMER: Objection to form. I would say all physicians participate in psychological issues in the care of their patients, so to that extent, it's limited to my role as a pediatric endocrinologist. And would you say it's common for physicians in | 2 3 4 5 6 7 8 9 10 11 12 | Q | medicine grand rounds delivered topics related to those issues as well. It's part of some of the questioning in maintenance of certification, and so I would say that I do have ongoing exposure to these issues, again, as it pertains to my practice as a pediatric endocrinologist. Would you consider yourself an expert in in the provision of mental health care? It depends on on how you define expert. I are a pediatric endocrinologist and I deliver care to patients that have endocrine disorders. Patients |
| 3 (4 A 5 (6 7 A 9 10 11 12 (13 | 2 4 2 4 | And you're not a psychologist? I am not a certified psychologist, correct. And you're not an uncertified psychologist either, I assume? MR. RAMER: Objection to form. I would say all physicians participate in psychological issues in the care of their patients, so to that extent, it's limited to my role as a pediatric endocrinologist. And would you say it's common for physicians in different specialties to have experience with | 2 3 4 5 6 7 8 9 10 11 12 13 | Q | medicine grand rounds delivered topics related to those issues as well. It's part of some of the questioning in maintenance of certification, and so I would say that I do have ongoing exposure to these issues, again, as it pertains to my practice as a pediatric endocrinologist. Would you consider yourself an expert in in the provision of mental health care? It depends on on how you define expert. I arr a pediatric endocrinologist and I deliver care to patients that have endocrine disorders. Patients will not come to me primarily for psychiatric |
| 3 (4 A 5 (6 7 8 A 9 10 11 12 (13 14 | 2 4 2 4 | And you're not a psychologist? I am not a certified psychologist, correct. And you're not an uncertified psychologist either, I assume? MR. RAMER: Objection to form. I would say all physicians participate in psychological issues in the care of their patients, so to that extent, it's limited to my role as a pediatric endocrinologist. And would you say it's common for physicians in different specialties to have experience with mental health conditions? | 2 3 4 5 6 7 8 9 10 11 12 13 14 | Q A | medicine grand rounds delivered topics related to those issues as well. It's part of some of the questioning in maintenance of certification, and so I would say that I do have ongoing exposure to these issues, again, as it pertains to my practice as a pediatric endocrinologist. Would you consider yourself an expert in in the provision of mental health care? It depends on on how you define expert. I are a pediatric endocrinologist and I deliver care to patients that have endocrine disorders. Patients will not come to me primarily for psychiatric conditions. |
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| 3 (4 A 5 (6 7 7 8 A 9 9 10 11 12 (13 14 15 A | 5 4 5 5 4 | And you're not a psychologist? I am not a certified psychologist, correct. And you're not an uncertified psychologist either, I assume? MR. RAMER: Objection to form. I would say all physicians participate in psychological issues in the care of their patients, so to that extent, it's limited to my role as a pediatric endocrinologist. And would you say it's common for physicians in different specialties to have experience with mental health conditions? MR. RAMER: Objection to form. I would say that as a pediatric endocrinologist, | 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 | Q A Q | medicine grand rounds delivered topics related to those issues as well. It's part of some of the questioning in maintenance of certification, and so I would say that I do have ongoing exposure to these issues, again, as it pertains to my practice as a pediatric endocrinologist. Would you consider yourself an expert in in the provision of mental health care? It depends on on how you define expert. I an a pediatric endocrinologist and I deliver care to patients that have endocrine disorders. Patients will not come to me primarily for psychiatric conditions. So you don't primarily treat patients for psychiatric conditions? |
| 3 (4 A 5 (6 7 8 A 9 10 11 (11 12 (113 14 15 A 15 A 17 | 5 4 5 5 4 | And you're not a psychologist? I am not a certified psychologist, correct. And you're not an uncertified psychologist either, I assume? MR. RAMER: Objection to form. I would say all physicians participate in psychological issues in the care of their patients, so to that extent, it's limited to my role as a pediatric endocrinologist. And would you say it's common for physicians in different specialties to have experience with mental health conditions? MR. RAMER: Objection to form. I would say that as a pediatric endocrinologist, that many of my patients have psychiatric | 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 | Q A Q | medicine grand rounds delivered topics related to those issues as well. It's part of some of the questioning in maintenance of certification, and so I would say that I do have ongoing exposure to these issues, again, as it pertains to my practice as a pediatric endocrinologist. Would you consider yourself an expert in in the provision of mental health care? It depends on on how you define expert. I arr a pediatric endocrinologist and I deliver care to patients that have endocrine disorders. Patients will not come to me primarily for psychiatric conditions. So you don't primarily treat patients for psychiatric conditions? As I just said, I treat patients with endocrine |
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| $\begin{array}{c} 3 \\ 4 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 112 \\ 12 \\ 112 \\ 112 \\ 113 \\ 114 \\ 15 \\ 116 \\ 117 \\ 118 \\ 119 \\ 20 \\ 21 \\ 22 \\ 22 \\ 22 \\ 22 \\ 22 \\ 22$ | 5 4 5 5 4 | And you're not a psychologist? I am not a certified psychologist, correct. And you're not an uncertified psychologist either, I assume? MR. RAMER: Objection to form. I would say all physicians participate in psychological issues in the care of their patients, so to that extent, it's limited to my role as a pediatric endocrinologist. And would you say it's common for physicians in different specialties to have experience with mental health conditions? MR. RAMER: Objection to form. I would say that as a pediatric endocrinologist, that many of my patients have psychiatric comorbidities that significantly influence their ability to enter into and adhere to the treatment recommendations. I frequently encounter patients that are significantly affected by these psychiatric conditions. I've certainly in | 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | Q A Q A | medicine grand rounds delivered topics related to those issues as well. It's part of some of the questioning in maintenance of certification, and so I would say that I do have ongoing exposure to these issues, again, as it pertains to my practice as a pediatric endocrinologist. Would you consider yourself an expert in in the provision of mental health care? It depends on on how you define expert. I are a pediatric endocrinologist and I deliver care to patients that have endocrine disorders. Patients will not come to me primarily for psychiatric conditions. So you don't primarily treat patients for psychiatric conditions? As I just said, I treat patients with endocrine diseases and I do not treat patients that come primarily for psychiatric conditions. Do you have any education or training related to the treatment of gender dysphoria? This is the topic of gender dysphoria has been |
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| $3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 15 \\$ | 5 4 5 5 4 | And you're not a psychologist? I am not a certified psychologist, correct. And you're not an uncertified psychologist either, I assume? MR. RAMER: Objection to form. I would say all physicians participate in psychological issues in the care of their patients, so to that extent, it's limited to my role as a pediatric endocrinologist. And would you say it's common for physicians in different specialties to have experience with mental health conditions? MR. RAMER: Objection to form. I would say that as a pediatric endocrinologist, that many of my patients have psychiatric comorbidities that significantly influence their ability to enter into and adhere to the treatment recommendations. I frequently encounter patients that are significantly affected by these psychiatric conditions. I've certainly in | 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | Q A Q A | medicine grand rounds delivered topics related to those issues as well. It's part of some of the questioning in maintenance of certification, and so I would say that I do have ongoing exposure to these issues, again, as it pertains to my practice as a pediatric endocrinologist. Would you consider yourself an expert in in the provision of mental health care? It depends on on how you define expert. I are a pediatric endocrinologist and I deliver care to patients that have endocrine disorders. Patients will not come to me primarily for psychiatric conditions. So you don't primarily treat patients for psychiatric conditions? As I just said, I treat patients with endocrine diseases and I do not treat patients that come primarily for psychiatric conditions. Do you have any education or training related to the treatment of gender dysphoria? This is the topic of gender dysphoria has been |

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| | Íne | t al. VS dividual Members of the Medical Licensing Board | 1 | | June 1, 20 |
|--|--------|--|--|--------|--|
| | | Page 26 | | | Page 2 |
| 1 | | of Endocrinology and Diabetes, where one of my | 1 | | I've certainly cared for patients that have |
| 2 | | faculty members approached me asking to develop a | 2 | | gender dysphoria in the context of endocrin |
| 3 | | gender center at our institution. It | 3 | | disorders that they have, including dyslipidemia |
| 4 | | necessitated me to look at the literature in this | 4 | | diabetes, thyroid disease and obesity, but, |
| 5 | | field to make an assessment about the proposal | 5 | | again, these patients are not coming to me |
| 6 | | that was being made, and that process has | 6 | | specifically for the treatment of gender |
| 7 | | continued over the last decade. I have | 7 | | dysphoria. |
| 8 | | participated in both discussions of this topic at | 8 | Q | So let's take it in in sequence. So have yo |
| 9 | | local, national and international meetings. | 9 | • | ever prescribed hormonal interventions to trea |
| .0 | Q | So you consider your training related to gender | 10 | | gender dysphoria in an adolescent? |
| .1 | | dysphoria in to be the review of the | 11 | А | As I made very clear in my declaration, in m |
| 2 | | literature related to the topic; is that what I'm | 12 | | investigation into the affirmative model for |
| .3 | | understanding? | 13 | | gender-affirming care, I have concluded that the |
| L4 | | MR. RAMER: Objection to form. | 14 | | relative risks versus purported benefits do no |
| | Α | Are you asking me if if my understanding of | 15 | | support engagements in that activity, and becaus |
| 6 | • • | gender dysphoria is limited to reading papers, is | 16 | | of that, it would be unethical for me to be abl |
| .7 | | that what the question is? | 17 | | to deliver care that I have deemed not |
| .8 | Q | No, that's not the question, because I asked you | 18 | | appropriate for patients. |
| .9 | × | do you have any education or training related to | 19 | Q | I didn't ask you why. Just as a yes or no |
| 20 | | gender dysphoria and you responded by explaining | 20 | × | question, have you ever prescribed hormon |
| 21 | | that you had reviewed the literature, so I'm | 21 | | interventions to treat a patient who is an |
| 22 | | trying to understand what is the education or | 22 | | adolescent for gender dysphoria? |
| 23 | | training that you've received with respect to | 23 | | MR. RAMER: Objection to form. |
| 24 | | gender dysphoria? | 24 | А | For the for the reason I just stated, I do no |
| 25 | | MR. RAMER: Objection to form. | 25 | •• | provide any medical care that I deem that is no |
| | | | | | |
| | | Page 27 | | | Page 2 |
| 1 | А | It's similar to how I addressed your question | 1 | | justified by a risk/benefit analysis, and that |
| 2 | | about other areas of psychiatric care. This | 2 | | includes gender-affirming care in the role of a |
| 3 | | involves my participation in formal presentations | 3 | | endocrinologist. |
| 4 | | at medicine and pediatric grand rounds, | 4 | | MR. STRANGIO: Just for simplicity, to g |
| 5 | | discussions of this topic at national and | 5 | | the clearest possible answer, if we could pull u |
| 6 | | international meetings, direct conversations with | 6 | | Exhibit 3, Kim, and if you could go to page 100 |
| 7 | | my colleagues and those in other specialties, in | 7 | | And so if we could scroll down to line 21. |
| 8 | | addition to my reading of the literature. | 8 | Q | So this is the transcript from the Brandt tria |
| 9 | Q | Have you ever delivered a grand round related to | 9 | | And I asked you, "And you've never treated |
| | | the topic of gender dysphoria? | 10 | | patient for gender dysphoria; correct?" |
| 0 | А | Yes, I have. | 11 | | And then your answer was, "Not for gende |
| | | Where was that? | 12 | | dysphoria, correct." |
| 1 | Q | | | | |
| .1 .2 | Q A | I've done several. Off the top of my head, I did | 13 | | |
| 1 2 3 | _ | I've done several. Off the top of my head, I did a medical grand rounds at the University of | | A | My answer is entirely consistent with what |
| .1 .2 .3 .4 | _ | I've done several. Off the top of my head, I did a medical grand rounds at the University of Kentucky, at the school in Texas, at St. Louis | 13 | A | My answer is entirely consistent with what |
| .1 .2 .3 .4 | _ | I've done several. Off the top of my head, I did a medical grand rounds at the University of Kentucky, at the school in Texas, at St. Louis University. I'm trying to think of all the I | 13 14 | A | My answer is entirely consistent with what testified in that case, which I just shared wit you. |
| 1 2 3 4 5 | _ | I've done several. Off the top of my head, I did a medical grand rounds at the University of Kentucky, at the school in Texas, at St. Louis University. I'm trying to think of all the I tried to list them in my CV, and you'll probably | 13 14 15 | A Q | My answer is entirely consistent with what testified in that case, which I just shared wit you. So you've |
| .1 .2 .3 .4 .5 .6 | _ | I've done several. Off the top of my head, I did a medical grand rounds at the University of Kentucky, at the school in Texas, at St. Louis University. I'm trying to think of all the I tried to list them in my CV, and you'll probably find that further down in the document that's | 13 14 15 16 | _ | My answer is entirely consistent with what testified in that case, which I just shared wit you. So you've |
| .1 .2 .3 .5 .6 .7 | _ | I've done several. Off the top of my head, I did a medical grand rounds at the University of Kentucky, at the school in Texas, at St. Louis University. I'm trying to think of all the I tried to list them in my CV, and you'll probably | 13 14 15 16 17 | _ | My answer is entirely consistent with what testified in that case, which I just shared wit you. So you've MR. RAMER: Sorry, Chase, just to clarify |
| .1 .2 .3 .4 .5 .6 .7 .8 | _ | I've done several. Off the top of my head, I did a medical grand rounds at the University of Kentucky, at the school in Texas, at St. Louis University. I'm trying to think of all the I tried to list them in my CV, and you'll probably find that further down in the document that's | 13 14 15 16 17 18 | _ | My answer is entirely consistent with what testified in that case, which I just shared wit you. So you've MR. RAMER: Sorry, Chase, just to clarify |
| .1 .2 .3 .4 .5 .6 .7 .8 .9 | Ā | I've done several. Off the top of my head, I did a medical grand rounds at the University of Kentucky, at the school in Texas, at St. Louis University. I'm trying to think of all the I tried to list them in my CV, and you'll probably find that further down in the document that's currently displayed here. | 13 14 15 16 17 18 19 | _ | My answer is entirely consistent with what testified in that case, which I just shared wit you. So you've MR. RAMER: Sorry, Chase, just to clarif it's page 106 in the PDF and this is page 1317 i |
| .1 .2 .3 .4 .5 .6 .7 .8 .9 | Ā | I've done several. Off the top of my head, I did a medical grand rounds at the University of Kentucky, at the school in Texas, at St. Louis University. I'm trying to think of all the I tried to list them in my CV, and you'll probably find that further down in the document that's currently displayed here. And have you ever treated a patient for gender | 13 14 15 16 17 18 19 20 | _ | My answer is entirely consistent with what testified in that case, which I just shared wit you. So you've MR. RAMER: Sorry, Chase, just to clarif it's page 106 in the PDF and this is page 1317 i the transcript. |
| .1 .2 .3 .4 .5 .6 .7 .8 .9 20 21 | A Q | I've done several. Off the top of my head, I did a medical grand rounds at the University of Kentucky, at the school in Texas, at St. Louis University. I'm trying to think of all the I tried to list them in my CV, and you'll probably find that further down in the document that's currently displayed here. And have you ever treated a patient for gender dysphoria? | 13 14 15 16 17 18 19 20 21 | _ | My answer is entirely consistent with what testified in that case, which I just shared wit you. So you've MR. RAMER: Sorry, Chase, just to clarifi it's page 106 in the PDF and this is page 1317 i the transcript. MR. STRANGIO: Correct. MR. RAMER: Okay. Thank you. |
| L3 L4 L5 L6 L7 L8 L9 20 | A Q | I've done several. Off the top of my head, I did a medical grand rounds at the University of Kentucky, at the school in Texas, at St. Louis University. I'm trying to think of all the I tried to list them in my CV, and you'll probably find that further down in the document that's currently displayed here. And have you ever treated a patient for gender dysphoria? Well, I if I understand your question, you're | 13 14 15 16 17 18 19 20 21 22 | _ | So you've MR. RAMER: Sorry, Chase, just to clarify it's page 106 in the PDF and this is page 1317 i the transcript. MR. STRANGIO: Correct. |

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| | ASE 1.23-CV-00595-JPH-KMB DOCUMENT 58-5 Flied 06/12/23 Page 9 01 107 PageID #. 3318 K.C., et al. VS PAUL W. HRUZ, M.D., PH.D. | | | | | | | |
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| , | The Individual Members of the Medical Licensing Board | | | | | June 1, 2023 | | |
| | | | Page 30 | | | Page 32 | | |
| | 1 2 | Q | is page 1317. So so when you said that at the Brandt trial | 1 | | your patients that you treat for, say, diabetes also have a gender dysphoria diagnosis that | | |
| | | Q | • | _ | | | | |
| | 3 | | that you have you have not treated a patient | 3 | | they're being treated for hormone therapy with? | | |
| | 4 | | for gender dysphoria, that is your position | | A | So if you're asking me if it's limited to the | | |
| | 5 | | today? | 5 | | inpatient setting, no. I also have seen patients | | |
| | 6 | Α | 5 5 7 | 6 | | in my outpatient setting who express | | |
| | 7 | Q | And have you ever diagnosed anyone as having | 7 | | sex-discordant gender identity that I care for | | |
| | 8 | | gender dysphoria? | 8 | | other diseases, including type 1 diabetes. | | |
| | 9 | А | Are you asking me whether I've gone through the | 9 | Q | And some of those patients are being treated with | | |
| | 10 | | checklist in the DSM-5 to formally determine | 10 | | hormone therapy? | | |
| | 11 | | whether one has that that condition? | 11 | А | As yes. | | |
| | 12 | Q | Yes. Have you ever gone through the criteria in | 12 | Q | And have you ever been physically present for a | | |
| | 13 | | the DSM-5-TR and made a diagnosis of gender | 13 | | discussion between a provider and a patient about | | |
| | 14 | | dysphoria for a patient? | 14 | | treatment options for gender dysphoria? | | |
| | 15 | А | Well, since I'm a pediatric endocrinologist, that | 15 | А | In the setting of my role in cofounding the | | |
| | 16 | | is not within my purview and so, no, I have not | 16 | | Disorders of Sexual Development Clinic at | | |
| | 17 | | done that. | 17 | | Washington University, for many years we would | | |
| | 18 | Q | And I think you sort of alluded to this earlier, | 18 | | have regular monthly meetings where we discuss | | |

- but have you ever had a patient under your care 19 19 that someone else diagnosed with gender 20 20 21 dysphoria? 21
 - MR. RAMER: Objection to form. 22
 - 23 A So I certainly have cared for individuals that
 - present to me informing me that they have 24
 - sex-discordant gender identity and I provided 25

have.

22

25

23 Q

24 A

| | | Page 31 | | | Page 33 |
|--------|---|--|--------|---|--|
| 1 2 | | care with them. My discussions and treatment has been focused upon the presenting endocrine | 1 2 | | participated directly in the gender clinic at Washington University. |
| 3 | | disorder and that's where the focus of my care | 3 | Q | And no conversations with with a physician or |
| 4 | | has been. We've not delved into any greater | 4 | | other provider and a patient; is that correct? |
| 5 | | detail about who made the diagnosis, who was | 5 | А | Cannot recall a time where I've I've had a |
| 6 | | treating them for other issues except as it | 6 | | conversation with one of my colleagues who is |
| 7 | | relates to the presentation of the endocrine | 7 | | providing care at that gender center together |
| 8 | _ | disorder that I'm being asked to care for. | 8 | | with a patient at that time where they were |
| 9 | Q | So for those patients that are under your care | 9 | | discussing gender-affirming medical care, that is |
| 10 | | for an endocrine condition that's not gender | 10 | | correct. |
| 11 | | dysphoria, have any of them been treated with | 11 | Q | And you've also mentioned this, but you're |
| 12 | | gender-affirming hormone therapy? | 12 | | currently affiliated with the Department of |
| 13 | | MR. RAMER: Objection to form. | 13 | | Pediatrics at Washington University School of |
| 14 | А | So I am for example, we have patients that | 14 | | Medicine in St. Louis; is that did I get that |
| 15 | | have type 1 diabetes that also experience | 15 | | right? |
| 16 | | sex-discordant gender identity that have been | 16 | А | My primary appointment is in the Department of |
| 17 | | admitted to our psychiatric unit that have been | 17 | | Pediatrics as an associate professor. |
| 18 | | receiving gender-affirming hormonal | 18 | Q | And is the St. Louis Children's Hospital the |
| 19 | | interventions, and my role in those cases is | 19 | | pediatric teaching hospital for Washington |
| 20 | | making sure that their diabetes is adequately | 20 | | University School of Medicine? |
| 21 | | cared for while they're being hospitalized. It | 21 | А | That is correct. |
| 22 | | has not been my responsibility to supervise or | 22 | Q | And do you work at the St. Louis Children's |
| 23 | | change the administration of that | 23 | | Hospital? |
| 24 | | gender-affirming hormonal medication. | 24 | А | My clinic is is at the St. Louis Children's |
| 25 | Q | And other than in a inpatient context, any of | 25 | | Hospital, correct. |

care, and some of those discussions did involve

issues of sexual identity and -- and how to best

manage those patients, so, yes, in that setting I

I'm trying to remember if -- certainly I've had

conversations with my trainees, but I have not

Other than in that setting?

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| The | ., et Inc | t al. VS lividual Members of the Medical Licensing Board | | | PAUL W. HRUZ, M.D., PH.D. June 1, 2023 |
|--|--------------|---|--|---|--|
| | - | Page 34 | | | Page 36 |
| _ | 0 | And there is a transcender alinia at the | _ | | |
| 1 | Q | And there is a transgender clinic at the St. Louis Children's Hospital called the | 1 | А | MR. RAMER: Objection to form. Okay. I will state again that I'm not a |
| 2 | | Washington University Transgender Center; is that | ∠ 3 | A | legislator, nor a politician. My understanding, |
| 3 4 | | right? | 4 | | again, from what I've read in the news reports is |
| | А | That is correct. | 5 | | that this care or the legislation in Missouri |
| 6 | Q | And at that center excuse me. The Center, the | 6 | | actually has a a clause where it is |
| 7 | × | Washington University Transgender Center, treats | 7 | | restricting care for new patients. Again, my |
| 8 | | adolescent patients with gender dysphoria; is | 8 | | understanding is that it doesn't apply to people |
| 9 | | that correct? | 9 | | that are currently receiving care, but, again, |
| 10 | | MR. RAMER: Objection to form. | 10 | | I'm not up to date on that legislation and I |
| 11 | А | That is my that is my understanding, correct. | 11 | | don't know for sure the details. |
| 12 | Q | And as part of the treatment provided at that | 12 | Q | I'm not asking about the specifics of the |
| 13 | | clinic, they prescribe pubertal suppression to | 13 | | legislation. I'm asking if at your place of |
| 14 | | treat gender dysphoria? | 14 | | employment there's been any communication about |
| 15 | А | It is my understanding that they are using the | 15 | | the potential changes with respect to the |
| 16 | | affirmative model, which includes the | 16 | | provision of care that you have been made aware |
| 17 | | administration of GnRH agonists, also known as | 17 | | of? |
| 18 | | puberty blockers, and cross-sex hormones, meaning | 18 | | MR. RAMER: Objection to form. |
| 19 | | the administration of estrogen to a biological | 19 | А | There has been there has been no formal |
| 20 | | male and the administration of testosterone to a | 20 | | communication from the administration in any way |
| 21 22 | Q | biological female. Are you aware that Missouri has recently passed a | 21 22 | Q | with respect to that legislation. And if if the let me let me excuse |
| 23 | Q | law like Senate Enrolled Act 480? | 22 | Q | me. So if Missouri were to prohibit the |
| 24 | | MR. RAMER: Objection to form. | 24 | | provision of gender-affirming care to adolescents |
| 25 | А | I'm aware that I don't know the details of the | 25 | | with gender dysphoria, is it your view that the |
| | | | | | |
| | | Page 35 | | | Page 37 |
| 1 | | | | | |
| | | actual legislation, but I am aware that they have | 1 | | patients at the Transgender Care Center would all |
| 2 | _ | passed legislation in that regard, yes. | 1 2 | | benefit from that change? |
| 2 3 | Q | passed legislation in that regard, yes. And so so under this legislation, hormonal | 2 3 | | benefit from that change? MR. RAMER: Objection to form. |
| 2 3 4 | Q | passed legislation in that regard, yes. And so so under this legislation, hormonal treatment for adolescents with gender dysphoria | 2 3 4 | A | benefit from that change? MR. RAMER: Objection to form. I think it's a hard question for me to answer |
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ase 1:23-cv-00595-JPH-KMB Document 58-5 Filed 06/12/23 Page 11 of 107 PageID # K.C., et al. VS 3320 PAUL W. HRUZ, M.D.,

MR. RAMER: Objection to form.

the very notable gaps in the scientific

the potential, if -- to -- to move in the

direction of having that -- that approach

critically evaluated and the research be

favor of more research; is that right?

quality data in this field, I think it's an

safe to have those treatments stopped

research studies in this area.

So, in general, in the area of treatment of

adolescents with gender dysphoria, you're in

I'm a physician scientist. I'm always in favor

of more research. And given the paucity of high

imperative that we perform higher quality

So when patients are receiving hormonal treatment

for gender dysphoria or for any condition, is it

So there's much potential for engaging into the

research that needs to be done to study this

condition and optimal interventions to fill in

I have advocated, actually, for the conduct

of proper research studies for many years with my

colleagues at Washington University, and this has

The Individual Members of the Medical Licensing Board

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knowledge.

conducted.

immediately?

MD PHD

June 1, 2023 Page 40 "In the care of these patients, I have acquired expertise in the understanding and management of associated difficulties in gender identification and gender transitioning treatment

4 issues." 5

Did I read that correctly?

7 A Yes.

Page 38

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8 O And the expertise you note here related to what you call gender transitioning treatment issues, 9 that's based on the treatment of patients with --10 11 with DSDs; is that right?

Well, I would -- I would not agree that this is 12 A gender transitioning. These are issues related to gender identity and trying to make a prudent decision about outcomes where there's significant ambiguity.

I think in the condition of disorders of sexual development, this is very distinct from the question of gender dysphoria. In these situations these patients are born with genital ambiguity, many times with much uncertainty as to the actual sexual identity of these individuals, and the goal here is to be able to use all of the information that we have available to make a prudent decision about how they will best be able

| | Page 39 | | | Page 41 |
|------------------------------|---|----------------------------|---|--|
| 1 / 2 3 4 5 6 | Well, it depends on that's a very broad question. There are many different types of treatments, some of which would be amenable to more immediate cessation. I would say that in the delivery of care with hormonal interventions such as testosterone | 1 2 3 4 5 6 | | to function with their physiology and, again, very different than the question of gender dysphoria, and we would not consider the involvement of these decisions to be a transition. It is trying to correctly identify the actual sexual identity of that individual and |
| 7 | or estrogen, there is no science about the | 7 | | how they can best live their life in relation to |
| 8 | optimal way that one would wean off of that, but | 8 | ~ | that. |
| 9 | it would make sense, it would be very prudent | 9 | Q | So the so the expertise that you're discussing |
| 10 11 | to to do this in a gradual manner. We do have established data on the effects of abrupt changes | 10 11 | | in paragraph 11 here is distinct from gender dysphoria? |
| 12 | in sex therapy hormone levels and know the | | А | So well, let me let me clarify, okay. |
| 13 | adverse effects on psychological health. The | 13 | | There are questions related to one's sexual |
| 14 | best example that I can give is what we see in | 14 | | identity and one's understanding of that sexual |
| 15 | postpartum depression. | 15 | | identity. There is overlap in that regard, but |
| 16 (| 2 So going back to your declaration which is | 16 | | there's a difference in that in disorders of |
| 17 | Exhibit 1, Kim, if you could pull pull that | 17 | | sexual development, one is most often, if not |
| 18 | up. And going to paragraph 11. Sorry, I have it | 18 | | exclusively, dealing with people that have |
| 19 20 | as paragraphs here, not pages. So so Dr. Hruz, here you're talking about | 19 20 | | impaired or absent fertility at the time that one is intervening as opposed to those that have |
| 20 21 | your experience founding as a founding member | 20 21 | | gender dysphoria that have normally formed and |
| 22 | of the multidisciplinary Disorders of Sexual | 22 | | functioning sexual anatomy prior to the |
| 23 | Development program, and and you write and | 23 | | engagement in gender-affirming medical |
| 24 | I'll read it, so follow follow along because | 24 | | interventions. |
| 25 | it's very likely I'll make a mistake. | 25 | Q | I'm just asking about this paragraph. You're |

Case 1:23-cv-00595-JPH-KMB Document 58-5 Filed 06/12/23 Page 12 of 107 PageID #: K.C., et al. VS 3321 The Individual Members of the Medical Licensing Board June 1, 2023

| Inc | ino | lividual Members of the Medical Licensing Board | | | June 1, 2023 |
|--|--------------------------------------|--|--|--------|--|
| | | Page 42 | | | Page 44 |
| 1 | | referring to particular expertise gained in the | 1 | | to the treatment of gender dysphoria? |
| 2 | | context of treating individuals with disorders of | | А | Yes, I have. |
| 3 | | sexual development; is that right? | 3 | ~ | And what was that? |
| | Α | This is in relation to issues of gender | | Ă | In my role in the fellowship program, there are |
| 5 | 11 | identification, correct. | 5 | 11 | several of our fellows that are currently engaged |
| 6 | Q | And then moving to paragraph 13, and here at the | 6 | | in research projects related to adverse effects |
| 7 | Y | bottom with the sentence beginning, "Pediatric | 7 | | of gender-affirming medical interventions. In my |
| 8 | | patients," I'm going to just read this to you. | 8 | | role as the associate program director, one of my |
| 9 | | You write, "Pediatric patients referred to our | 9 | | responsibilities is to supervise that research, |
| 10 | | practice for the evaluation and treatment of | 10 | | to assist the fellows in setting up the research |
| 11 | | gender dysphoria are cared for by an | 11 | | projects, evaluate their progress in performing |
| 12 | | interdisciplinary team of providers that includes | 12 | | that research and being able to effectively |
| 13 | | a psychologist and pediatric endocrinologist who | 13 | | disseminate the results of the research in that |
| 14 | | have been specifically chosen for this role based | 14 | | area. And, again, I'm not the mentor, nor am I |
| 15 | | upon a special interest in this patient | 15 | | the principal investigator of these trials. My |
| 16 | | population." | 16 | | role is limited to the supervision and guidance |
| 17 | | Did I read that correctly? | 17 | | of those fellows. |
| | А | That is correct. | 18 | Q | And how many of these trials that you're serving |
| | Q | And when you say here "referred to our practice," | 19 | Y | as the fellowship supervisor for are there? |
| 20 | × | what practice are you referring to? | | Α | Currently there are two fellows involved in two |
| 21 | А | So I'm referring to those that are are seeking | 21 | 11 | separate research projects related to gender |
| 22 | •• | care at our our gender dysphoria clinic at | 22 | | dysphoria. |
| 23 | | Washington University. | 23 | Q | And what types of studies are these two fellows |
| | Q | But you aren't personally involved in in the | 24 | × | conducting? |
| 25 | × | treatment of those patients seeking evaluation | 25 | А | The first fellow both of them are senior |
| | | I Barris Barris | | | |
| | | | | | |
| | | Page 43 | | | Page 45 |
| 1 | | - | 1 | | |
| 1 | А | and treatment for gender dysphoria; right? | 1 | | fellows, soon to graduate and join our faculty. |
| 2 | A | and treatment for gender dysphoria; right? As I've already stated, both in my declaration | 2 | | fellows, soon to graduate and join our faculty. One is doing a randomized controlled trial on |
| 2 3 | | and treatment for gender dysphoria; right? As I've already stated, both in my declaration and this morning, that is correct. | 2 3 | | fellows, soon to graduate and join our faculty. One is doing a randomized controlled trial on different estrogen preparations and looking for |
| 2 3 4 | A Q | and treatment for gender dysphoria; right? As I've already stated, both in my declaration and this morning, that is correct. And so and when you say you refer them, you | 2 3 4 | | fellows, soon to graduate and join our faculty. One is doing a randomized controlled trial on different estrogen preparations and looking for thromboembolic risk related to these different |
| 2 3 4 5 | Q | and treatment for gender dysphoria; right? As I've already stated, both in my declaration and this morning, that is correct. And so and when you say you refer them, you refer them to the gender care clinic? | 2 3 4 5 | | fellows, soon to graduate and join our faculty. One is doing a randomized controlled trial on different estrogen preparations and looking for thromboembolic risk related to these different forms of estrogen administration. |
| 2 3 4 5 6 | | and treatment for gender dysphoria; right? As I've already stated, both in my declaration and this morning, that is correct. And so and when you say you refer them, you refer them to the gender care clinic? I do not make referrals. The patients through | 2 3 4 5 6 | | fellows, soon to graduate and join our faculty. One is doing a randomized controlled trial on different estrogen preparations and looking for thromboembolic risk related to these different forms of estrogen administration. The other fellow is doing a research project |
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| The Ír | et al. VS dividual Members of the Medical Licensing Board | | | PAUL W. HRUZ, M.D., PH.D. June 1, 2023 |
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| | Page 46 | | | Page 48 |
| | Page 46 | | | Page 48 |
| 1 Q | So that is not a randomized controlled trial? | 1 | | individuals with gender dysphoria; is that is |
| 2 A | | 2 | | that right? |
| 3 | MR. STRANGIO: Okay. If we could pull up, | 3 | А | I'm sorry, are we in invited or are we under the |
| 4 | please, Kim, Exhibit 2, and and turn to | 4 | | journal articles? |
| 5 | page 7. | 5 | Q | Under the journal articles, that would be two |
| 6 | Maybe scroll down, please, a bit. Okay, | 6 | | articles concerning the treatment of individuals |
| 7 | yeah, to the next page where it's a bibliography. | 7 | | with gender dysphoria; is that right? |
| 8 | Great. Thank you. | 8 | А | You have to scroll up a little bit so we can be |
| ۹ Q | So, Dr. Hruz, this is the section of your of | 9 | | looking at them. |
| 10 | your CV titled "Bibliography." Is this a list of | 10 | | MR. STRANGIO: Yeah, Kim, if you could |
| 11 | publications that you have authored? | 11 | | it's actually a little more up, in the earlier, |
| 12 A | That is correct, either as a first author, senior | 12 | | like the 40s. There we go. |
| 13 | author or contributing author. | 13 | | THE WITNESS: There we go. |
| 14 Q | So and here you have 52 publications listed | 14 | | MR. STRANGIO: That's good, stop there. No, |
| 15 | as, A, Journal Articles. Is that academic | 15 | | no, not that far. A little bit down. Okay. |
| 16 | journal articles? | 16 | А | So, yes, looking at the paper of first author |
| 17 A | Yes. | 17 | | Malone and the paper in the Linacre that I was |
| 18 Q | And then scrolling down, there's three book | 18 | | the sole author of, that's correct. |
| 19 | chapters; is that correct? | 19 | Q | Okay. And so just to be specific, this that |
| 20 A | Yes. | 20 | | would be "Deficiencies in Scientific Evidence for |
| 21 Q | And then eight invited publications? | 21 | | Medical Management of Gender Dysphoria" in the |
| 22 | MR. RAMER: Sorry, Chase, where are we? | 22 | | Linacre Quarterly? |
| 23 | MR. STRANGIO: Yeah, so, sorry. Kim, if you | 23 | А | That is correct. |
| 24 | could scroll, it's past there's the 52 journal | 24 | Q | And then the second one would be the letter to |
| 25 | articles. Just trying to get the lay of the land | 25 | | the editor from primary author William Malone |
| | | | | |
| | | | | |
| | Page 47 | | | Page 49 |
| 1 | Page 47 here. | 1 | | |
| 1 2 Q | here. | 1 2 | | regarding the "Proper Care of Transgender and |
| - | here. Okay. So then we have the this is then | | | regarding the "Proper Care of Transgender and Gender Diverse Persons in the Setting of Proposed |
| 2 Q | here. Okay. So then we have the this is then subsection C2 here is the three book chapters, | 2 3 | A | regarding the "Proper Care of Transgender and Gender Diverse Persons in the Setting of Proposed Discrimination: A Policy Perspective"? |
| 2 Q 3 | here. Okay. So then we have the this is then | 2 3 4 | | regarding the "Proper Care of Transgender and Gender Diverse Persons in the Setting of Proposed Discrimination: A Policy Perspective"? That is correct. |
| 2 Q 3 4 | here. Okay. So then we have the this is then subsection C2 here is the three book chapters, and then there's I believe eight invited publications, right there. | 2 3 4 | A Q | regarding the "Proper Care of Transgender and Gender Diverse Persons in the Setting of Proposed Discrimination: A Policy Perspective"? That is correct. And the first publication is in a journal called |
| 2 Q 3 4 5 6 A | here. Okay. So then we have the this is then subsection C2 here is the three book chapters, and then there's I believe eight invited publications, right there. That is correct. | 2 3 4 5 | Q | regarding the "Proper Care of Transgender and Gender Diverse Persons in the Setting of Proposed Discrimination: A Policy Perspective"? That is correct. |
| 2 Q 3 4 5 6 A | here. Okay. So then we have the this is then subsection C2 here is the three book chapters, and then there's I believe eight invited publications, right there. That is correct. And so what is the difference between a | 2 3 4 5 6 | Q A | regarding the "Proper Care of Transgender and Gender Diverse Persons in the Setting of Proposed Discrimination: A Policy Perspective"? That is correct. And the first publication is in a journal called the Linacre Quarterly; is that right? That is correct. |
| 2 Q 3 4 5 6 A 7 Q 8 | here. Okay. So then we have the this is then subsection C2 here is the three book chapters, and then there's I believe eight invited publications, right there. That is correct. And so what is the difference between a publication and an invited publication? | 2 3 4 5 6 7 | Q | regarding the "Proper Care of Transgender and Gender Diverse Persons in the Setting of Proposed Discrimination: A Policy Perspective"? That is correct. And the first publication is in a journal called the Linacre Quarterly; is that right? That is correct. And the Linacre Quarterly is the official journal |
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| 2 Q 3 4 5 6 A 7 Q 8 9 A 10 | here. Okay. So then we have the this is then subsection C2 here is the three book chapters, and then there's I believe eight invited publications, right there. That is correct. And so what is the difference between a publication and an invited publication? Generally the invited publications, I was contacted by an editor or interested party asking | 2 3 4 5 6 7 8 9 10 | Q A Q | regarding the "Proper Care of Transgender and Gender Diverse Persons in the Setting of Proposed Discrimination: A Policy Perspective"? That is correct. And the first publication is in a journal called the Linacre Quarterly; is that right? That is correct. And the Linacre Quarterly is the official journal of the Catholic Medical Association; is that right? |
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| | | Page 50 | | | Page 52 |
| 1 | Α | That is correct. | 1 | | MR. STRANGIO: Well, if we could pull up |
| | | | 1 | | Exhibit 7 and go down to a little further. |
| 2 | Q | And the second is "A Biological Understanding of | 2 | | |
| 3 | | Man and Woman," and that was in the book "Sexual | 3 | | This is the "About Us" section of The New |
| 4 | | Identity: The Harmony of Philosophy, Science and | 4 | | Atlantis. Keep going down. I'm sorry, it's at |
| 5 | | Revelation"; is that correct? | 5 | | the very bottom here. Further. So here. It |
| 6 | Α | That is correct. | 6 | | says "Who We Are." |
| 7 | Q | And that second book, "Sexual Identity," was | 7 | Q | So The New Atlantis says, "We are not an academic |
| 8 | | published by Emmaus Road Press; is that right? | 8 | | journal but a journal of public" sorry, excuse |
| 9 | А | That is correct. | 9 | | me. "We are not an academic journal but a public |
| 10 | Q | And if we could go to Exhibit 6. And Emmaus Road | 10 | | journal of ideas." |
| 11 | × | Publishing Company, according to their website, | 11 | | So The New Atlantis would not describe |
| 12 | | is a Christian publishing company driven with a | 12 | | itself as an academic journal? |
| 13 | | passion to proclaim the gospel of God's grace to | 13 | | MR. RAMER: Objection to form. |
| | | | | ۸ | |
| 14 | | the nations of the earth; is that right? | | Α | If you scroll up under their aims, they address |
| 15 | | MR. RAMER: Objection to form. | 15 | | issues that I would consider academic questions, |
| | A | So you've read that correctly. | 16 | | and in that respect it would be academic. |
| 17 | Q | And so any reason to believe that that is not the | 17 | | So, again, I'm I'm not on the editorial |
| 18 | | description of the Emmaus Road Press? | 18 | | board of this journal. I have no knowledge of |
| 19 | | MR. RAMER: Objection to form. | 19 | | the workings of of their overall goals, but I |
| 20 | А | Again, you know, I'm not opining as a theologian | 20 | | would say that it does discuss ideas that would |
| 21 | | nor making judgments, but you presented a web | 21 | | fall into the area of academic discussion. |
| 22 | | page that expresses their purpose, and that is | 22 | Q | It's not a peer-reviewed journal; right? |
| 23 | | consistent with my understanding as well. | | À | This question has come up repeatedly. Many times |
| 24 | | MR. STRANGIO: And then going back to | 24 | | these types of publications are reviewed by the |
| 25 | | Exhibit 2, Kim, thank you, and to the invited | 25 | | editorial board, and for the questions being |
| 23 | | Exhibit 2, Ithin, thank you, and to the invited | 23 | | cultoriul courd, and for the questions cours |
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| 2 | Q | publications. | 2 | | explored, the editors themselves could be considered the peers, but it differs in the review mechanism that are generally done for the |
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| The | C., et al. VS 3324 E Individual Members of the Medical Licensing Board | | | PAUL W. HRUZ, M.D., PH.D. June 1, 2023 |
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| | Page 54 | | | Page 56 |
| 1 | MR. RAMER: Doctor, does that work for you? | 1 | | endocrinologist. |
| 2 | THE WITNESS: That would be fine. | 2 | Q | And for the publication that you mentioned on the |
| 3 | (At this time a recess was taken.) | 3 | Ľ | adverse effects of estrogen treatment, how are |
| 4 | BY MR. STRANGIO: | 4 | | you studying those? |
| 5 | Q Okay. So we left off, we were talking about The | 5 | А | As I have throughout my entire time being |
| 6 | New Atlantis publication. And so The New | 6 | | involved in this conversation, that I have been |
| 7 | Atlantis was founded by the Ethics and Public | 7 | | very much aware of the emerging data, what is |
| 8 | Policy Center; is that right? | 8 | | being done within the published literature, and |
| 9 | A You would know more than I, but I believe that's | 9 | | all of the information that's available with the |
| 10 | correct. | 10 | | studies that have been published or that are |
| 11 | Q And the Ethics and Public does it sound | 11 | 0 | being proprosed. |
| 12 | correct to you that the Ethics and Public Policy Center is working to apply the riches of the | 12 13 | Q | So that publication will be a review of existing data? |
| 13 14 | Judeo-Christian tradition to contemporary | 14 | Δ | So if you're asking, I am not currently doing a |
| 15 | questions of law, culture and politics in pursuit | 15 | 11 | clinical trial involved a randomized |
| 16 | of America's continued civic and cultural | 16 | | controlled trial or any of that nature as a |
| 17 | renewal? | 17 | | principal investigator. It's merely looking at |
| 18 | MR. RAMER: Objection to form. | 18 | | the evidence and being able to present it in a |
| 19 | | 19 | | way that will help our profession in assessing |
| 20 | statement that I assume you obtained from their | 20 | | the relative risks and purported benefits of the |
| 21 | website. I have no basis to judge that, but it | 21 | | affirmative model of care as relates as it |
| 22 | is consistent with my understanding. | 22 | _ | relates to pediatric endocrinology. |
| 23 | Q And the publications that we've just gone | 23 | Q | And when you say "looking at the evidence," what |
| 24 | through, are they all of your publications | 24 | | evidence are you looking at for that particular |
| 25 | related to transgender people and/or the | 25 | | paper? |
| | | | | |
| | Page 55 | | | Page 57 |
| 1 | - | 1 | A | |
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| The | e Ind | t al. VS 3325 dividual Members of the Medical Licensing Board | | | FAUL W. HKUZ, M.D., FH.D. June 1, 2023 |
|--|----------------------------|--|--|----|--|
| | | Page 58 | | | Page 60 |
| | | - | | | |
| 1 | | small for me. Hold on. Okay. So to the so | | A | So, again, I'm not testifying in this case |
| 2 | | page 1, and scrolling down a bit to the education | 2 | | specifically about the diagnosis. Yet if one |
| 3 | | section. I don't need to go through everything | 3 | | were to go through the DSM-5 criteria and ask the |
| 4 | 0 | here, but we can stop there, Kim. Thank you. | 4 | | patients about their experience and they would |
| 5 | Q | So, Dr. Hruz, the last listing in your education | 5 | | report that to fulfill that criteria, those |
| 6 | | is the 2017 Certification in Healthcare Ethics | 6 | | patients do exist. |
| 7 | | from the National Catholic Bioethics Center; is | 7 | | MR. STRANGIO: And if we could pull up |
| 8 | | that right? | 8 | | Exhibit 1, please, Kim, paragraph sorry, top |
| 9 | A | That is correct. | 9 | | of page 30, paragraph 55. Yeah, we can it's |
| 10 | Q | What did that entail? | 10 | | between 29 and 30. Yeah, that's great. Thank |
| 11 | А | This was a year-long study, which was primarily a | 11 | _ | you. |
| 12 | | correspondence course of reading ethics-based | 12 | Q | And so here in your declaration, you're talking a |
| 13 | | articles. There were two in-person meetings, | 13 | | little bit about gender dysphoria. And at the |
| 14 | | both at the beginning and at the end of the | 14 | | top of page 40 you write, "Gender dysphoria is |
| 15 | | certification process, and, in fact, one of the | 15 | | associated with high rates of comorbidity, |
| 16 | | papers that's listed in my CV under Invited | 16 | | including suicidal ideation, depression, anxiety, |
| 17 | | Publications was the product of of the paper | 17 | | poverty, homelessness, eating disorders and HIV |
| 18 | | that I wrote as part of that certification | 18 | | infection." |
| 19 | | program. | 19 | | Did I read that correctly? |
| 20 | Q | Got it. Thanks. | 20 | А | You did indeed read that correctly. |
| 21 | | MR. STRANGIO: Okay. Kim, we can take we | 21 | Q | And you would consider poverty and homelessness |
| 22 | | can take this down. And we can maybe just pull | 22 | | to be comorbidities? |
| 23 | | up Exhibit 1 just to have it nearby. Thank you. | 23 | А | They're associated difficulties that these |
| 24 | Q | So so, Doctor, do you believe that there are | 24 | | individuals experience, yes. |
| 25 | | some people who have a gender identity that | 25 | Q | Why do you think people with gender dysphoria are |
| | | | | | |
| | | | | | |
| | | Page 59 | | | Page 61 |
| 1 | | Page 59 differs from their natal sex? | 1 | | |
| 1 | A | differs from their natal sex? | 1 | | disproportionately homeless? |
| | A | differs from their natal sex? If you are asking me if there are individuals | | A | disproportionately homeless? MR. RAMER: Objection to form. |
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| K.C | L, et Ind | t al. VS 3326 lividual Members of the Medical Licensing Board | | | PAUL W. HRUZ, M.D., PH.D. June 1, 2023 |
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| | / 1110 | Page 62 | | | Page 64 |
| 1 | | MR. RAMER: Objection to form. | 1 | | resultant to the sex-discordant gender identity |
| | А | So if you're referring to the social stress | 2 | | is a matter of active discussion. |
| 3 | | hypothesis, that is one of the areas that that | 3 | Q | But would you agree that, say, homelessness in a |
| 4 | | people have considered as a reason for that, | 4 | Ċ | six-year-old is probably not antecedent to the |
| 5 | | among others. | 5 | | sex-discordant gender identity? |
| 6 | Q | Well, I'm not I'm not even referring to any | 6 | | MR. RAMER: Objection to form. |
| 7 | | any hypothesis. I'm just asking you since you | 7 | А | Well, again, you're asking me to speculate on a |
| 8 | | wrote it here in your declaration, do you think | 8 | | hypothetical with there are many other |
| 9 | | that one possible contributing factor to the | 9 | | contributing factors. In the hypothetical that |
| 10 | | comorbidity of homelessness could be societal discrimination? | 10 | | you posed, not clear what the family dynamics |
| 11 12 | | MR. RAMER: Objection to form. | 11 12 | | are, whether the parents themselves are homeless, whether that had any influence at all on the |
| 13 | Δ | By the way that you ask the question, you're | 13 | | presentation that saw a child with sex-discordant |
| 14 | 11 | asking me to opine on a hypothesis, and I stated | 14 | | gender identity, so one cannot make blanket |
| 15 | | that very clearly. | 15 | | statements. One can entertain various hypotheses |
| 16 | Q | What I'm sorry, I didn't understand your | 16 | | as to the factors that contribute to that |
| 17 | | answer to my question about the hypothesis. | 17 | | experience. |
| 18 | | Well, please ask the question again. | 18 | Q | But, so as you're explaining it now, familial |
| 19 | Q | Do you let me ask it this way. Do you think | 19 | | homelessness could contribute to sex-discordant |
| 20 | | that poverty and homelessness, which you identify | 20 | ٨ | gender identity? |
| 21 22 | | as comorbidities of gender dysphoria, could be related to societal discrimination? | 21 22 | A | I'm not familiar with the term familial homelessness, but if you're referring to |
| 22 | | MR. RAMER: Objection to form. | 22 | | individuals that that are exposed to various |
| 24 | А | So by stating it as a could this be a factor, | 24 | | psychosocial traumas and difficulties, there is |
| 25 | | that is a hypothesis. | 25 | | much that has been proposed as a hypothesis that |
| | | ······································ | | | muen mus seen proposed us a hypothesis mut |
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| | | Page 63 | | | Page 65 |
| 1 | - | Page 63 Is it one of your hypotheses? | 1 | | Page 65 that might contribute to the emergence of |
| 1 2 | Q A | Page 63 Is it one of your hypotheses? I as a physician scientist entertain all possible | 1 2 | | Page 65 that might contribute to the emergence of sex-discordant gender identity in some |
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| 1 2 3 4 | _ | Page 63 Is it one of your hypotheses? I as a physician scientist entertain all possible hypotheses. Not all hypotheses have the same merit. They're based on different scientific | 1 2 3 4 | Q | Page 65 that might contribute to the emergence of sex-discordant gender identity in some individuals. Is there any evidence of that in the research |
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| | | Page 66 | | Page 68 |
| - | | her arrange that is arrange of this nations | | |
| 1 | | by everyone that is aware of this patient | 1 Q | |
| 2 | | population, that these comorbidities do exist and | 2 | it now and tell me where where in this |
| 3 | | I think that that is fairly solid data about | 3 | document there's a reference to encouraging |
| 4 | 0 | co-occurrence. | 4 | children to embrace a transgender identity as you |
| 5 | Q | And so going to also in this exhibit, page 30, | 5 | write, that would be helpful. |
| 6 | | just a little ways down in paragraph 56. | 6 A | |
| 7 | | MR. STRANGIO: Okay, you can stop there. | 7 | MR. STRANGIO: And, Kim, you can follow |
| 8 | 0 | Thank you, Kim. | 8 | Dr. Hruz's direction here. |
| 9 | Q | So here you write, starting at the beginning of | 9 A | 6 |
| 10 | | paragraph 56, "Some practitioners promote a | 10 | through to the meat of the paper here. You can |
| 11 | | so-called gender-affirming approach to treating | 11 | go down to the actual text of the paper. This is |
| 12 | | gender dysphoria which involves affirming the | 12 | just the abstract here. I think you can go |
| 13 | | child's present gender identity. This | 13 | further. Hold one second. Go back, go back up. |
| 14 | | affirmation may have social, medical, legal and | 14 | Why don't you go down a little bit further. You |
| 15 | | behavioral dimensions. Typically, this affirming | 15 | can go down a little bit further. Actually, I |
| 16 | | approach encourages children to embrace | 16 | want to just get a lay of the entire paper here. |
| 17 | | transgender identity with social transitioning, | 17 | I notice in the paper here, it addresses the |
| 18 | | followed by puberty blockade and hormonal therapy | 18 | question that you asked earlier. These authors |
| 19 | | (cross-sex hormones) and potential surgical | 19 | of this paper make the same statement that I made |
| 20 | | interventions." | 20 | as far as the disproportionally high rates of |
| 21 | | Did I read that correctly? | 21 | comorbidities and mental health issues associated |
| 22 | A | Yes, you did read that correctly. | 22 | with that. |
| 23 | Q | And so I want to talk about this part of the | 23 | So this paper is addressing concerns |
| 24 | | this sentence where you write, "Typically this | 24 | relating to the legislation that is being put |
| 25 | | affirming approach encourages children to embrace | 25 | forward to limit this care. It sets up |
| | | | | |
| | | Page 67 | | Page 69 |
| _ | | - | _ | |
| 1 | | a transgender identity." | 1 | gender-affirming care as the preferred approach, |
| 2 | Δ | a transgender identity." Do you see that part of the sentence? | 2 | gender-affirming care as the preferred approach, which I've seen many times in many other papers, |
| 2 3 | A | a transgender identity." Do you see that part of the sentence? I do. | 2 3 | gender-affirming care as the preferred approach, which I've seen many times in many other papers, many other publications that I could cite where |
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| | | Page 70 | | | Page 72 |
|--|----|---|--|--------|--|
| 1 | А | It would be very easy if I could much easier | 1 | | cited later in here the Olson paper looking at |
| 2 | 71 | if I could download it and actually go through it | 2 | | again, it was for a different purpose, of looking |
| 3 | | myself, but can you go back up again, just so | 3 | | at social affirmation in relation to ongoing |
| 4 | | I can reorient myself to your question, you're | 4 | | transition to to other forms of gender-forming |
| 5 | | looking for a statement in this paper here that | 5 | | medical interventions, and but there are other |
| 6 | | relates to encouragement or allowing one to have | 6 | | papers that clearly support that, so. |
| 7 | | affirmation of their gender identity. I think | 7 | | And it wasn't intended in my declaration to |
| | | the whole summary | 8 | | be exhaustive in in citing all of the |
| 8 | Ο | Well, let's let's stop there, because I don't | 9 | | literature. Obviously, in the context of this |
| 9 | Q | think encouragement and allowing are the same | | | document, it's not possible to put forward all of |
| 10 | | thing. Do you think encouragement and allowing | 10 | | the papers that address this question. |
| 11 12 | | are the same thing? | 11 12 | Q | But so where in this paper is there reference to |
| | ٨ | No, they are different. | | Q | |
| | A | Okay. And so I would wanted to find where | 13 | | uncritical acceptance of a child's gender identification? |
| 14 | Q | • | 14 | | |
| 15 | | this paper and what you wrote is, "This affirming approach encourages children to embrace | 15 16 | Δ | MR. RAMER: Objection to form. Well, I I would say that I very much |
| 16 | | • • • • | | А | |
| 17 | | a transgender identity," and then cited this | 17 | | summarized the basis of that paper and, again, it is advocating for allowing one to have a gender |
| 18 | | paper, so what I want to ask you is where in this | 18 19 | | 8 8 |
| 19 | | paper is there reference to encouraging children | | | affirm access to gender-affirming care, which |
| 20 | ٨ | to embrace a transgender identity? | 20 | Ω | supports that as being a desired outcome. |
| | A | As I said, as I'm recalling the paper that I | 21 | Q | And is it is it fair to say that there's |
| 22 | | cited here, it seems to be advocating for the | 22 | | nowhere in this paper that specifically |
| 23 | | affirmative model, and so, you know, if it's | 23 | | references encouraging children to embrace a |
| 24 | | making the opinion that these individuals are | 24 | | transgender identity? MR. RAMER: Objection to form. |
| 25 | | are being harmed if they are not allowed to have | 25 | | MR. RAMER. Objection to form. |
| | | | | | |
| | | Page 71 | | | Page 73 |
| | | Page 71 | | ٨ | Page 73 |
| 1 | | their gender affirmed. | | A | I would say in the way you're phrasing it in this |
| 2 | | their gender affirmed. Again, there are other publications that I | 2 | A | I would say in the way you're phrasing it in this line of questioning, I would agree with that |
| 2 3 | | their gender affirmed. Again, there are other publications that I could cite that really support the claim that I | 2 3 | A | I would say in the way you're phrasing it in this line of questioning, I would agree with that statement, although I would need to again, you |
| 2 3 4 | 0 | their gender affirmed. Again, there are other publications that I could cite that really support the claim that I make in my declaration. | 2 3 4 | A | I would say in the way you're phrasing it in this line of questioning, I would agree with that statement, although I would need to again, you give me time to scroll through this, I think |
| 2 3 4 5 | Q | their gender affirmed. Again, there are other publications that I could cite that really support the claim that I make in my declaration. Okay. And so it's it's your position that | 2 3 4 5 | A | I would say in the way you're phrasing it in this line of questioning, I would agree with that statement, although I would need to again, you give me time to scroll through this, I think it it really I stand by the assertion that |
| 2 3 4 5 6 | Q | their gender affirmed. Again, there are other publications that I could cite that really support the claim that I make in my declaration. Okay. And so it's it's your position that making the claim that children could be harmed if | 2 3 4 5 6 | A | I would say in the way you're phrasing it in this line of questioning, I would agree with that statement, although I would need to again, you give me time to scroll through this, I think it it really I stand by the assertion that I made in my declaration that that is something |
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| | | Faye 74 | | | Fage 70 |
| 1 | | MR. RAMER: Objection to form. | 1 | | transgender identity? |
| 2 | А | I would say that this is consistent with this and | 2 | | MR. RAMER: Objection to form. |
| 3 | | other papers of having a model by which when one | 3 | А | As as we've been discussing, the again, |
| 4 | | experiences a sex-discordant gender identity, | 4 | | from my perspective as a pediatric |
| 5 | | that it is not critically evaluated as to the | 5 | | endocrinologist, just to be very clear, the role |
| 6 | | basis for the emergence of that sex-discordant | 6 | | of the endocrinologist, what the endocrinologist |
| 7 | | gender identity and one is supported in having | 7 | | is being asked to do is to deliver hormonal |
| 8 | | access to social affirmation and gender-affirming | 8 | | medications, whether they be GnRH agonists, |
| 9 | | medical interventions. | 9 | | puberty blockers, or cross-sex hormones to |
| 10 | Q | And you said this and other papers, but this is | 10 | | facilitate the gender-affirming approach. It is |
| 11 | | the only paper you cited for this sentence; is | 11 | | done together with other practitioners, but the |
| 12 | | that right? | 12 | | Endocrine Society guidelines, as they are put |
| 13 | А | In my declaration it was the only reference. | 13 | | forward, are being addressed to the endocrine |
| 14 | | Again, in the ability in this type of a | 14 | | community. They do address topics related to the |
| 15 | | document, not intended to be exhaustive of the | 15 | | other components of the gender-affirming medical |
| 16 | | literature, and, again, it's consistent with my | 16 | | care, but the focus of the recommendations are on |
| 17 | | opinion in this case. | 17 | | the role of the endocrinologist in that |
| 18 | Q | In your view, is following the treatment outlined | 18 | | gender-affirming model. |
| 19 | | in the current Endocrine Society guideline for | 19 | Q | So let's say there's an endocrinologist who sees |
| 20 | | the treatment of gender dysphoria tantamount to | 20 | | a patient and that patient has had a |
| 21 | | encouraging a child to embrace a transgender | 21 | | sex-discordant gender identity from a very early |
| 22 | | identity? | 22 | | age, let's say three, and they come in, they had |
| 23 | | MR. RAMER: Objection to form. | 23 | | significant distress, they come in to see the |
| 24 | А | So the question about a child that experiences | 24 | | the endocrinologist. The endocrinologist |
| 25 | | sex-discordant gender identity, it's important to | 25 | | consults the guidelines, and this child is 16 |
| | | | | | |
| | | Page 75 | | | Page 77 |
| | | Page 75 | | | Page 77 |
| 1 | | recognize how this thinking has evolved over | 1 | | years old, was never on puberty blockers, but has |
| 2 | | recognize how this thinking has evolved over time. | 2 | | years old, was never on puberty blockers, but has long-standing distress and a diagnosis of gender |
| 2 3 | | recognize how this thinking has evolved over time. In the original 2009 Endocrine Society | 2 3 | | years old, was never on puberty blockers, but has long-standing distress and a diagnosis of gender dysphoria. |
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ase 1:23-cv-00595-JPH-KMB Document 58-5 Filed 06/12/23 Page 21 of 107 PageID # K.C., et al. VS 3330 PAUL W. HRUZ, M.D.,

The Individual Members of the Medical Licensing Board June 1, 2023 Page 78 Page 80 10 Do you think that endocrinologists who provide 1 the same thing? that treatment have an investment in the patient А 2 2 No. being transgender? зQ Okay. Are you a member of the Endocrine Society? 3 4 MR. RAMER: Objection to form. 4 A Yes. I am. MR. STRANGIO: So if we could go back to A I don't know how you infer any judgment on 5 5 Exhibit 1 and paragraph 86, pages 49 to 50. investment. They are being asked, and those that 6 6 would prescribe those medications would be Okay. Wait, no, no, go up, sorry. Sorry, you're 7 7 acquiescing to the desires of that patient to right, go down. That was my fault. 8 8 facilitate that change. 0 So here in -- this is in between pages 49 and 50, 9 9 Q Do you think when doctors treat conditions to paragraph 86, talking about the Endocrine Society 10 10 alleviate suffering, they're acquiescing to clinical practice guideline with respect to 11 11 patient desire, as a general matter? treatment of gender dysphoria, you write, "The 12 12 MR. RAMER: Objection to form. guidelines were never submitted to the entire 13 13 Endocrine Society membership for comment and Α This is an important question because I think it 14 14 approval prior to publication." 15 relates to the uniqueness of the engagement of an 15 endocrinologist in the -- in the treatment of Did I read that correctly? 16 16 gender dysphoria, which is very distinct from all You did. 17 17 A of the other conditions that a pediatric 18 0 And is that unique to this particular guideline 18 endocrinologist would normally treat. or is that just how Endocrine Society clinical 19 19 And the difference is that in all other practice guidelines are generally done? 20 20 endocrine conditions -- or in all endocrine MR. RAMER: Objection to form. 21 21 conditions -- this is not an endocrine condition 22 A So I can state in another related area, there was 22 until you make it one by disrupting the function a paper that was recently published by the 23 23 of the normal gonadal function -- is that we have Endocrine Society about the importance of sex as 24 24 25 objective criteria to make the diagnosis. We 25 a biological variable. That paper was put out to Page 79 Page 81 have objective criteria for establishing not only the entire membership for comment and addressing 1 1 before it was published, in contrast to this the diagnosis, but the response to treatment by 2 2 measuring of various hormone levels, imaging guideline that was not. 3 3 studies and objective criteria. Q Well, I'm talking about clinical practice 4 4 So I would say that -- that the guidelines; say, for example, the clinical 5 5 endocrinologist is not acquiescing to the desires 6 6 practice guidelines for CAH. Is that put out to 7 of the patient. They're able to objectively the entire membership for comment and approval 7 recognize an endocrinologic disorder and be able prior to publication? 8 8 9 to address that disorder within the tools that 9 MR. RAMER: Objection to form. are available to the endocrinologist, so I would 10 A I think I understand your question. So the 10 say that it is not the same thing. It is very statement that I make in this paragraph was not 11 11 12 different in the setting of gender dysphoria than that -- so it is correct that most clinical 12 it is in other endocrine conditions. practice guidelines are not put to the membership 13 13 Q But the endocrinologists who are treating for approval, but I would -- the reason why this 14 14 adolescents with gender dysphoria you believe are is contained within my declaration is that 15 15 acquiescing to patient desires? statements have been made by the plaintiffs that 16 16 MR. RAMER: Objection to form. Asked and this is accepted by the Endocrine Society. And I 17 17 would say that without having the ability to -answered. 18 18 Α I would say, again, that they are being asked to 19 19 of the entire membership to comment on that, you and they're agreeing to deliver hormonal cannot state that this is endorsed by the members 20 20 interventions that will change the appearance of of the Society. It is only endorsed by the 21 21 the body to conform to one's perceived gender members of that committee that put together the 22 22 recommendations. That is the purpose of that 23 identity, and in that case they are facilitating 23 the transition that the patient desires. statement. And that is an accurate description 24 24 of -- of the -- the status of how these 25 O And do you think facilitating and encouraging are 25

M.D., PH.D.

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| Inc | Int | lividual Members of the Medical Licensing Board | | | June 1, 2023 |
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| | | Page 82 | | | Page 84 |
| 1 | | recommendations are in relation to the | 1 | | the the rest of the population, which leads to |
| | | understanding of the entire membership of the | | | significant questions about the efficacy of truly |
| 2 | | ÷ . | 2 | | |
| 3 | 0 | Society. | 3 | | alleviating in a sustained way the morbidity that |
| 4 | Q | So just for clarity, the clinical practice | 4 | | one has and is seeking to have relieved by the |
| 5 | | guidelines, including the clinical practice | 5 | | delivery of this care. |
| 6 | | guideline for treatment of gender dysphoria and | 6 | Q | So effective would be to see the distress |
| 7 | | others, are not put out to the entire membership | 7 | | alleviated from the morbidity, is that just to |
| 8 | | before publication? | 8 | | summarize that the last part of your answer; |
| 9 | | MR. RAMER: Objection. Beyond the scope. | 9 | | is that right? |
| 10 | А | So, again, my understanding as a member of the | 10 | | MR. RAMER: Objection to form. |
| 11 | | Endocrine Society, that most of the clinical | 11 | А | There are many there are many outcome measures |
| 12 | | practice guidelines are not put to the membership | 12 | •• | that one can use to assess the efficacy. One of |
| | | as a whole, but there are also not claims that | 13 | | • |
| 13 | | | | | them, and a very important and predominant |
| 14 | | they represent the understanding of the entire | 14 | | outcome measure, would be the alleviation of the |
| 15 | ~ | society as well. | 15 | | dysphoria, which is used as the basis for |
| 16 | Q | But the Endocrine Society is not claiming that | 16 | | engaging in the affirmative care. It also can |
| 17 | | these clinical practice guidelines represent | 17 | | include the need for ongoing use of psychiatric |
| 18 | | anything different than they are with respect to | 18 | | medications, ongoing comorbidities including |
| 19 | | other clinical practice guidelines, are they? | 19 | | eating disorders, depression, anxiety, peer |
| 20 | | MR. RAMER: Objection to form. | 20 | | relationships, a whole host of other outcome |
| 21 | А | They're my understanding from from the | 21 | | measures. |
| 22 | | plaintiff experts is they are making that claim. | 22 | 0 | And you mentioned that this that this is a new |
| 23 | Q | Separate from the plaintiff experts, is the | 23 | | medical intervention. What makes it new? |
| 24 | | Endocrine Society making that claim? | 24 | А | Well, I would say that when you have a condition |
| 25 | А | No. | 25 | | in which the best data that we have available in |
| | •• | | | | |
| | | | | | |
| | | Page 83 | | | Page 85 |
| | 0 | Page 83 | | | Page 85 |
| 1 | Q | So just trying to understand a little more | 1 | | adults can often take over ten years to be able |
| 1 2 | Q | So just trying to understand a little more about about your position, is it fair to | 1 2 | | adults can often take over ten years to be able to see, you know, effects where people have |
| | Q | So just trying to understand a little more about about your position, is it fair to summarize your position that as there is a | | | adults can often take over ten years to be able to see, you know, effects where people have actually discovered that it didn't alleviate the |
| 2 | Q | So just trying to understand a little more about about your position, is it fair to summarize your position that as there is a lack of evidence that pubertal suppression to | 2 | | adults can often take over ten years to be able to see, you know, effects where people have actually discovered that it didn't alleviate the suffering that they experienced, one does not |
| 2 3 | Q | So just trying to understand a little more about about your position, is it fair to summarize your position that as there is a | 2 3 | | adults can often take over ten years to be able to see, you know, effects where people have actually discovered that it didn't alleviate the |
| 2 3 4 | Q | So just trying to understand a little more about about your position, is it fair to summarize your position that as there is a lack of evidence that pubertal suppression to | 2 3 4 | | adults can often take over ten years to be able to see, you know, effects where people have actually discovered that it didn't alleviate the suffering that they experienced, one does not |
| 2 3 4 5 6 | Q | So just trying to understand a little more about about your position, is it fair to summarize your position that as there is a lack of evidence that pubertal suppression to treat gender dysphoria in adolescents is | 2 3 4 5 | | adults can often take over ten years to be able to see, you know, effects where people have actually discovered that it didn't alleviate the suffering that they experienced, one does not have that long-term data yet in the treatment of |
| 2 3 4 5 6 7 | A | So just trying to understand a little more about about your position, is it fair to summarize your position that as there is a lack of evidence that pubertal suppression to treat gender dysphoria in adolescents is effective? That's one component of my opinion, correct. | 2 3 4 5 6 | | adults can often take over ten years to be able to see, you know, effects where people have actually discovered that it didn't alleviate the suffering that they experienced, one does not have that long-term data yet in the treatment of children. The data that we do have available actually leads to strong questions about the |
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| | | Page 86 | | | Page 88 |
| 1 | | to be able to make the conclusions that many do | 1 | | cross-sex hormone therapy to treat adolescents |
| 2 | | make incorrectly about the the effectiveness | 2 | | with gender dysphoria currently banned in the |
| | | of this approach as opposed to alternative | | | United Kingdom? |
| 3 | | | 3 | | |
| 4 | 0 | approaches. | 4 | | MR. RAMER: Objection to form. Asked and |
| 5 | Q | So just taking a step back, you've mentioned now | 5 | | answered. |
| 6 | | a few times European countries. Which countries? | 6 | А | And I will say that I am not testifying in this |
| 7 | A | Well, there's there are statements that have | 7 | | case as being, again, a legislator or a |
| 8 | | been made in the UK, in Finland, Sweden, Norway, | 8 | | politician on the workings in that country, but |
| 9 | | France, New Zealand, many other countries that | 9 | | my understanding is that it can still be |
| 10 | | are assessing this question of scientific | 10 | | administered in circumstances, but the process of |
| 11 | | evidence and relative risk versus benefit. | 11 | | how to deliver this care is under intense |
| 12 | | Again, my role as a pediatric | 12 | | scrutiny right now based upon the scientific |
| 13 | | endocrinologist is focused upon assessing the | 13 | | evidence. |
| 14 | | relative risk versus benefit in relation to the | 14 | 0 | But the care can still be delivered in the UK, to |
| | | engagement of the pediatric endocrinologist in | 15 | X | the best of your understanding? |
| 15 | | | | ۸ | |
| 16 | | the delivery of care involving hormones, | 16 | A | As a pediatric endocrinologist |
| 17 | | including cross-sex hormones and puberty | 17 | | MR. RAMER: Objection to form. |
| 18 | C | blockers. | 18 | A | As a pediatric endocrinologist testifying in this |
| 19 | Q | And cross-sex hormones and puberty blockers | 19 | | case in relation to the relative risks and |
| 20 | | continue to be prescribed to adolescents with | 20 | | benefits of the affirmative model, my |
| 21 | | gender dysphoria in the UK; isn't that right? | 21 | | understanding is that that they are |
| 22 | | MR. RAMER: Objection to form. Beyond the | 22 | | reexamining the delivery of care, and I am not |
| 23 | | scope. | 23 | | aware of any absolute prohibition of the care, |
| 24 | А | Okay. So in this case I am not going to be | 24 | | but there is certainly recognition that that |
| 25 | | testifying specifically in that area, but my | 25 | | there's much that we do not know and there needs |
| | | | | | |
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| | | Page 87 | | | Page 89 |
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| 1 | | understanding is based upon the systematic | 1 | | to be reconsideration of of how we deliver |
| 2 | | understanding is based upon the systematic reviews by the National Institute for Clinical | 2 | 0 | to be reconsideration of of how we deliver care to the affected population. |
| | | understanding is based upon the systematic reviews by the National Institute for Clinical Excellence which include two systematic reviews, | 2 3 | Q | to be reconsideration of of how we deliver care to the affected population. And is is Finland continuing to provide |
| 2 | | understanding is based upon the systematic reviews by the National Institute for Clinical Excellence which include two systematic reviews, one on puberty blockers and one on cross-sex | 2 | Q | to be reconsideration of of how we deliver care to the affected population. And is is Finland continuing to provide hormone therapy and puberty blockers to some |
| 2 3 | | understanding is based upon the systematic reviews by the National Institute for Clinical Excellence which include two systematic reviews, one on puberty blockers and one on cross-sex hormones, gave the conclusion that the evidence | 2 3 | Q | to be reconsideration of of how we deliver care to the affected population. And is is Finland continuing to provide hormone therapy and puberty blockers to some adolescents with gender dysphoria? |
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| now exploring the nature of these various policies and and examinations, so you introduced it into the scope of your of your testimony, and it's my deposition and I'll ask the questions. So with respect to Sweden, is it your understanding that at least in the context of clinical trials, the provision of puberty blockers and cross-sex hormone therapy are being provided to adolescents with gender dysphoria? I need to MR. RAMER: Objection to form. Beyond the scope. I need to clarify. It is not the basis of my opinion. I brought up these European countries that it supports my opinion, that it's consistent with my opinion. It is not the basis of my opinion. The basis of my opinion is based upon understanding of the scientific evidence that is currently available independent of what is going on in the European countries. With that said, and your question being outside of the what I'm offering in this case, that is my understanding that it started with the | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 | medical care, and it is an area that is in need of active research. I fully support that. I think that the trials that need to be done are not even being considered. There are many ways that we can address this question that need to be explored, and that is, again, something that I have consistently maintained. Q With respect to research in this area, would you agree that it would be difficult to run placebo controlled randomized controlled trials for puberty blockers to treat gender dysphoria? |
| Page 91 Karolinska Institute making a determination that they were going to halt the delivery of hormonal treatments to these individuals based upon the low quality of evidence. That was followed up by a governmental policy statement indicating that that again, that this needs to be an area of active research, and that if it is going to be delivered, it needs to be done recognizing that it is experimental, and that is the basis of that which is consistent with the opinion that I am offering in this case was published in a peer-reviewed journal, Acta Pediatrica, demonstrating the low quality of evidence that's present to support the use of the affirmative model. So it's consistent with your opinion to assess the evidence and determine that it is appropriate to continue to provide the treatments in the context of a clinical research trial? MR. RAMER: Objection to form. It is so I'm a physician scientist, and I have long maintained that there is a need to do high quality research. It has not been conducted in | 1 2 3 4 5 6 7 8 9 10 11 12 3 14 15 16 17 18 19 20 21 22 23 | Page 93 same intervention, with the exception of the intervention that's being studied for that trial. Q So would you favor something like a randomized controlled trial in which one group was given psychotherapy alone to treat the distress related to gender dysphoria and one group was given pubertal suppression along with psychotherapy to treat the gender dysphoria and then study the two two groups, is that the type of trial that you would envision? MR. RAMER: Objection to form. A That so, again, as a physician scientist, that would be one way to conduct the trial. In fact, that study has been done in a non-randomized way. It's the 2015 Costa paper where the patients were not randomized to the two interventions that you propose, but they were studied and, in fact, there is justification on the ethical basis that both groups, both the group that received pubertal blockade with psychotherapy had improvement in the psychological parameters. I think it would be ethical within the |
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determinations of the effects of gender-affirming **25**

propose replicating those findings in a

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| | | Page 94 | | | Page 96 |
| 1 | | randomized manner, so I think there are many | 1 | | identical care with the exception of the |
| 2 | | other ways to propose that. That's not the only | 2 | | independent variable. If the independent |
| 3 | | way, but it is one example of the type of | 3 | | variable was, for example, cross-sex hormones or |
| 4 | | intervention that could be studied. | 4 | | puberty blockers, I think that it would be |
| 5 | Q | And so just to follow up on on that point. | 5 | | possible to design a trial with that that |
| 6 | Y | You would be in favor, as you've mentioned, | 6 | | intervention. |
| 7 | | for for more research in this area. Is that a | 7 | | MR. STRANGIO: This is an okay place to stop |
| 8 | | fair summary of what you said? | 8 | | for me, John, so or I can move on. Do you |
| 9 | | MR. RAMER: Objection to form. | 9 | | want to do a short break, an hour, and then |
| 10 | А | Absolutely. | 10 | | lunch, or how are you feeling? |
| 11 | Q | And one way to do research would be to give one | 11 | | MR. RAMER: So a break now makes sense. |
| 12 | × | group the intervention, say puberty blockade, and | 12 | | We're almost at an hour I think anyway, so, |
| 13 | | to give another group psychotherapy and to study | 13 | | Dr. Hruz, over to you about how long of a break. |
| 14 | | the effects of those of those two courses; is | 14 | | THE WITNESS: I would prefer to plow through |
| 15 | | that is that right? | 15 | | as quickly as possible, so we can keep this a |
| 16 | А | I think it would be imprudent to make that | 16 | | short break. |
| 17 | •• | generalized statement. There are many other | 17 | | MR. STRANGIO: All right. Let's go five. |
| 18 | | components the way that trial would need to be | 18 | | (At this time a recess was taken.) |
| 19 | | designed within, you know, the the normal | 19 | | MR. STRANGIO: Okay. So shifting gears a |
| 20 | | regulatory mechanisms of the institutional review | 20 | | little bit, and why don't we, Kim, go ahead and |
| 21 | | boards to make sure that the safety of the study | 21 | | pull up Exhibit 1, which is Dr. Hruz's |
| 22 | | subjects would be reasonably maintained to be | 22 | | declaration. |
| 23 | | able to address that question. | 23 | Q | And just to start, Doctor, so you currently treat |
| 24 | | I would say given the current state of | 24 | • | patients with disorders of sexual development; is |
| 25 | | knowledge, the initial questions that could be | 25 | | that right? |
| | | | | | |
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| | | Page 95 | | | Page 97 |
| 1 | | - | 1 | A | |
| 1 | | studied in that type of randomized controlled | 1 | A | I do, although much of that is now going |
| | | studied in that type of randomized controlled trial would be modest and very focused on | | A | I do, although much of that is now going continuing to occur within the setting of our DSD |
| 2 | | studied in that type of randomized controlled | 2 | A | I do, although much of that is now going continuing to occur within the setting of our DSD clinic. I routinely am consulted in patients |
| 2 3 | | studied in that type of randomized controlled trial would be modest and very focused on specific outcomes for a defined period of time, but I would not in a conversation like this be | 2 3 | A | I do, although much of that is now going continuing to occur within the setting of our DSD clinic. I routinely am consulted in patients that are born with ambiguous genitalia in the |
| 2 3 4 | | studied in that type of randomized controlled trial would be modest and very focused on specific outcomes for a defined period of time, but I would not in a conversation like this be able to adequately cover all of the necessary | 2 3 4 | A | I do, although much of that is now going continuing to occur within the setting of our DSD clinic. I routinely am consulted in patients |
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| Th | e Inc | lividual Members of the Medical Licensing Board | | | June 1, 2023 |
|--|-------------|---|--|--------------|--|
| | | Page 98 | | | Page 100 |
| 1 | | an infant's external genitalia at birth? | 1 | | what people generally mean in the imprecise use |
| 1 | А | e | 1 | | of that word of one's perception of their sexual |
| | Α | It depends on how one what one includes in the | 2 | | |
| 3 | | DSDs. I know there are many that are more | 3 | \mathbf{O} | identity. |
| 4 | | inclusive than I would be in what constitutes a | | Q | So what's so what would you how would you |
| 5 | | disorder of sexual development. But there are | 5 | | explain one's perception of their sexual identity |
| 6 | | conditions, for example, that one could be so | 6 | | as opposed to one's perception of their gender |
| 7 | | virilized that one would not recognize ambiguity | 7 | | identity? |
| 8 | | of an individual, for example, that had an XX | 8 | | MR. RAMER: Objection to form. |
| 9 | | karyotype that would have a male appearing | | A | So as I state very clearly in my declaration, |
| 10 | | genitalia, so ambiguity is the most frequently | 10 | | there are again, in 99.98 percent of the |
| 11 | | encountered, but there are other objective | 11 | | cases, that one's appearance of their external |
| 12 | | criteria that can be used to recognize, diagnose | 12 | | genitalia is in accord with reproductive |
| 13 | ~ | and treat other forms of DSDs. | 13 | | development and capacity, the actual basis for |
| 14 | Q | But not all of those are necessarily immediately | 14 | | sex among not only humans but across the animal |
| 15 | | known at birth; is that right? | 15 | | kingdom, and the unique roles that males and |
| 16 | А | Yes. I would say probably the most common would | 16 | | females have that in that role of reproduction. |
| 17 | | be complete androgen insensitivity where that | 17 | | And so that is an objective understanding in |
| 18 | | condition, the phenotype is female and it's not | 18 | | relation to that. |
| 19 | | recognized until later in life when one does not | 19 | | When one looks at individuals that have |
| 20 | _ | menstruate that one has the condition. | 20 | | disorders in that sexual differentiation process, |
| 21 | Q | And you write in the next paragraph, in 19, if we | 21 | | one is trying to be able to understand that |
| 22 | | could scroll down a little, at the bottom of the | 22 | | the etiology, the cause of that disorder of |
| 23 | | page, "The need for making a tentative sex | 23 | | sexual development, and also the potential |
| 24 | | assignment is unique to children with a DSD and | 24 | | functioning of that individual in relation to |
| 25 | | does not apply to individuals with normally | 25 | | what they possess at the time that they're being |
| | | | | | |
| | | | | | |
| | | Page 99 | | | Page 101 |
| 1 | | - | 1 | | Page 101 evaluated. |
| 1 | | Page 99 formed and functional genitalia at birth." Is that correct? | | Q | - |
| | A | formed and functional genitalia at birth." | | Q | evaluated. So the sexual identity relates to their |
| 2 | A Q | formed and functional genitalia at birth." Is that correct? | 2 | Q | evaluated. So the sexual identity relates to their reproductive functioning, is that what I'm |
| 2 3 | | formed and functional genitalia at birth." Is that correct? That is correct. And so taking the CAIS example, the complete | 2 3 | | evaluated. So the sexual identity relates to their |
| 2 3 4 | | formed and functional genitalia at birth." Is that correct? That is correct. And so taking the CAIS example, the complete androgen insensitivity example, is the sex | 2 3 4 | | evaluated. So the sexual identity relates to their reproductive functioning, is that what I'm understanding you saying? That is correct, in relation to how we understand |
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Case 1:23-cv-00595-JPH-KMB Document 58-5 Filed 06/12/23 Page 27 of 107 PageID #: K.C., et al. VS 3336 PAUL W. HRUZ, M.D., PH.D.

K.C., et al. vo The Individual Members of the Medical Licensing Board

| | Page 102 | | | Page 104 |
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| | Fage 102 | | | Fage 104 |
| 1 | conceive and gestate new life, so they would be | 1 | | But, again, I would say in those very rare |
| 2 | clearly female in their sexual identity. | 2 | | circumstances, one can accept that there's |
| | | | | |
| 3 Q | And the is their female sexual identity based | 3 | | ambiguity and one is not able to make a |
| 4 | on their capacity to carry new life, as you say? | 4 | | definitive assessment of the true sexual |
| 5 A | So it's in relation to the body itself and its | 5 | | identity. |
| 6 | orientation toward that reproductive potential. | 6 | | But what the practitioner does, those that |
| 7 | It's not to say that everyone that has in | 7 | | are involved in the care of these individuals, is |
| 8 | general, with or without adrenal hyperplasia, | 8 | | to assess what they do have in relation to sexual |
| | will be able to or choose to reproduce, but it | | | function and then to make a treatment plan that |
| 9 | ▲ 1 | 9 | | |
| 10 | means that what is the present within that | 10 | | will help facilitate that that sexual role |
| 11 | individual in its orientation toward that | 11 | | that that individual can carry out. |
| 12 | reproductive purpose, so I would say that | 12 | Q | Could two different people with CA CAIS, so |
| 13 | somebody that has an XX karyotype that has | 13 | | could two people with complete androgen |
| 14 | ovaries that's able to make ova, that has a | 14 | | insensitivity syndrome have different sexual |
| 15 | uterus, those are all characteristics that we | 15 | | identities? |
| | recognize for the female sex, and therefore in | 16 | Δ | No, they have one sexual identity, but the |
| 16 | | | А | |
| 17 | that relation, that would be their sexual | 17 | | external observer trying to assess what that is |
| 18 | identity. | 18 | | may come to different conclusions, so there is a |
| 19 Q | · · · | 19 | | sexual identity, but one may not be able to |
| 20 | insensitivity syndrome with XY chromosomes and | 20 | | definitively establish what that sexual identity |
| 21 | typical female appearing external genitalia, what | 21 | | is. |
| 22 | would be their sexual identity? | 22 | Q | And then on this same paragraph 19, but on the |
| 23 A | • | 23 | × | next page, starting with "Current practice." So |
| | | | | |
| 24 | debated depending on how one weights the various | 24 | | here, Doctor, you write, "Current practice is to |
| 25 | components. | 25 | | defer sex assignment until the etiology of the |
| | | | | |
| | | | | |
| | Page 103 | | | Page 105 |
| _ | - | _ | | |
| 1 | Again, when we talk about disorders of | 1 | | disorder is determined and, if possible, a |
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| | | invidual Members of the Meulcal Licenshig Board | | | June 1, 2023 |
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| | | Page 106 | | | Page 108 |
| - | | individuals will be able to reason to higher | - | | the time of the initial avaluation that may |
| 1 | | individuals will be able to respond to higher | 1 | | the time of the initial evaluation that may |
| 2 | | doses of androgen, some will not, and that is an | 2 | | impact the sexual function of that individual. |
| 3 | | example of the information that one does not have | 3 | | So it's actually moved toward increasing caution, |
| 4 | | at the time in the neonatal period that could | 4 | | recognizing the uncertainty that one has, which I |
| 5 | | lead to a change in in how we address that | 5 | | would say is in stark contrast to what's going on |
| | | | | | |
| 6 | 0 | individual and provide care to that person. | 6 | 0 | now in the area of gender dysphoria. |
| 7 | Q | And would that new information include how the | 7 | Q | And can surgeries done on infants with DSDs |
| 8 | | person feels about their sexual identity? | 8 | | impact their ability to orgasm? |
| 9 | А | It it certainly is a component. We try to get | 9 | А | Yes. |
| 10 | | all of the information that we have. Again, we | 10 | Q | And can surgeries done on infants with DSDs carry |
| | | are dealing with individuals that at the time of | 11 | - | risk? |
| 11 | | ÷ | | | |
| 12 | | evaluation have absent or impaired fertility or | | A | Yes. |
| 13 | | sexual function, so I think it recognizing | 13 | Q | And are all the surgeries done on infants with |
| 14 | | that there is a disorder of the sexual | 14 | | DSDs supported by long-term studies showing |
| 15 | | differentiation process, one needs to assess all | 15 | | benefit? |
| 16 | | of the components about that individual that will | | А | So let's let's so in order for me to |
| | | • | | 17 | |
| 17 | | affect their ability to engage in whatever | 17 | | adequately address your question, we have to look |
| 18 | | capacity they have, which is understood to be | 18 | | at the circumstances in which surgery will be |
| 19 | | incomplete. | 19 | | done in that period of infancy. |
| 20 | Q | But for this subset of humans, how they feel | 20 | Q | I can narrow the question, if that will save us |
| 21 | | about themselves would be a relevant | 21 | | time, which is just to say are are surgeries |
| | | consideration; is that right? | 22 | | that are done for the sole purpose of conforming |
| 22 | | | | | |
| | А | It would have to be in the setting of if you have | 23 | | the appearance of external genitalia to the sex |
| 24 | | somebody that does not have a clear male or | 24 | | assignment supported by long-term studies showing |
| 25 | | female sexual identity and has a limited capacity | 25 | | benefit? |
| | | | | | |
| | | | | | |
| | | Page 107 | | | Page 109 |
| | | Page 107 | | | Page 109 |
| 1 | | Page 107 of how they're going to engage within the sexual | 1 | A | |
| 1 | | of how they're going to engage within the sexual | | | There are ongoing studies, and that was the basis |
| 2 | | of how they're going to engage within the sexual realm, that would be an important consideration, | 2 | | There are ongoing studies, and that was the basis for which the change in the approach was made |
| 2 3 | 0 | of how they're going to engage within the sexual realm, that would be an important consideration, yes. | 2 3 | | There are ongoing studies, and that was the basis for which the change in the approach was made about individuals that had adverse effects of the |
| 2 3 4 | Q | of how they're going to engage within the sexual realm, that would be an important consideration, yes. And later in that paragraph, towards the bottom, | 2 3 4 | | There are ongoing studies, and that was the basis for which the change in the approach was made about individuals that had adverse effects of the surgeries that were done. You mentioned one of |
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| 2 3 4 | Q | of how they're going to engage within the sexual realm, that would be an important consideration, yes. And later in that paragraph, towards the bottom, you write, "Decisions on whether to surgically alter the external genitalia to align with sex | 2 3 4 | | There are ongoing studies, and that was the basis for which the change in the approach was made about individuals that had adverse effects of the surgeries that were done. You mentioned one of |
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| | Page 110 | | | Page 112 |
| 1 | having a dysgenetic testes that are present | 1 | | 61, okay. Can you scroll down a bit. Sorry. |
| 2 | within the abdomen. There are many reasons why | 2 | Q | Yeah, so here it's at the top of page 35, you |
| 3 | one would choose to do surgery earlier. | 3 | Ľ | write, "The evidence for the safety and efficacy |
| 4 | Again, this is an area that is again, | 4 | | of puberty suppression in boys is less robust, |
| 5 | there's there's ongoing discussion within the | 5 | | chiefly since precocious puberty is much rarer in |
| 6 | DSD community about the optimal timing of surgery | 6 | | boys." |
| 7 | or not. There's many that recognize that blanket | 7 | | Did I read that correctly? |
| 8 | prohibitions on doing surgery really carry | 8 | А | That is correct. |
| 9 | themself medical risk when you have situations | 9 | Q | Is it the case that sometimes with rare |
| 10 | where intervention is required early on, but most | 10 | ` | conditions, there is less evidence supporting a |
| 11 | of the practitioners, myself and those that are | 11 | | particular intervention? |
| 12 | involved in the care of patients with DSD, if it | 12 | А | That is very true in many areas of medicine. |
| 13 | is merely for cosmetic reasons, will defer that | 13 | | Again, any decision made is based upon the |
| 14 | until later. | 14 | | relative risk versus the relative benefit of the |
| 15 (| And we heard in a deposition that there are | 15 | | intervention, so that's not unique to to one |
| 16 | hospitals in Indiana that are performing genital | 16 | | particular area of medicine. That's true for all |
| 17 | surgeries on infants solely to alter the | 17 | | of medicine. |
| 18 | appearance of the infant's external genitalia. | 18 | Q | And at what age, you know, just even a range, do |
| 19 | Do you agree with that practice? | 19 | | you generally take patients with central |
| 20 / | A I'm not | 20 | | precocious puberty off of the GnRH analogue? |
| 21 | MR. RAMER: Objection to form. | 21 | А | Generally we will usually stop the GnRH agonist |
| 22 / | 5 | 22 | | when they reach the age of normal puberty. It |
| 23 | referring to, so I couldn't comment on that. I | 23 | | will be the length of treatment will be |
| 24 | don't know the circumstances of the decisions | 24 | | influenced by the degree of bone age advancement, |
| 25 | that were made to make that decision, so I can't | 25 | | the affect that one may potentially have on |
| | Page 111 | | | Page 113 |
| 1 | comment. | 1 | | height, but it also takes into consideration the |
| | But you think that prudent professionals could | 2 | | effects of delaying puberty beyond the normal |
| 3 | have a different approach to the surgical | 3 | | time as an adverse effect on things such as bone |
| 4 | treatment of infants with DSDs; is that correct? | 4 | | health. |
| 5 | MR. RAMER: Objection to form. | 5 | Q | But, generally speaking, it's an individualized |
| 6 / | | 6 | · | assessment for each patient based on the typical |
| 7 | DSDs is involving many different layers of | 7 | | pubertal age and other medical factors; is that a |
| 8 | consideration as far as what's in the best | 8 | | fair summary? |
| 9 | interests of that patient, looking at their | 9 | А | • |
| 10 | overall risk and benefit of early or delayed | 10 | | age is usually the limit of when one will |
| 11 | surgical intervention. | 11 | | continue that intervention. |
| 12 (| Q Okay. So in your declaration that we've been | 12 | Q | Same for natal males and natal females? |
| 13 | discussing, you talk about different endocrine | 13 | Ā | Slightly different, but very similar. |
| 14 | conditions that you treat in your practice, so I | 14 | Q | What's the difference? |
| 15 | wanted to talk about some of those. | 15 | А | Normal male puberty happens later than in |
| 16 | Is central precocious puberty a condition | 16 | | females. |
| 17 | that you treat? | 17 | Q | And in terms of years, when did you begin to |
| 18 / | | 18 | | treat central precocious puberty with GnRH |
| | And do you treat central precocious puberty with | 19 | | analogues? |
| 20 | GnRH analogues? | | A | I've been doing that throughout my career. |
| 21 / | | 21 | Q | So that would be going back to the 1990s? |
| | 2 For natal males and natal females? | 22 | А | Yes. '97 is when I started my fellowship |
| 23 / | | 23 | 0 | training. |
| 24 | MR. STRANGIO: And so if we could go to | 24 | Q | And if we could go to paragraph 43 on page 23. |
| 25 | paragraph 61, page 35 of your declaration. 35, | 25 | | Here you have you write, "A 2009 consensus |
| 1 | | 1 | | |

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| | | Page 114 | | | Page 116 |
| 10 11 12 13 14 15 16 17 18 19 20 21 22 | A Q A Q | statement of pediatric endocrinologists concluded that GnRH analogues are an effective way to improve the height of girls with onset of puberty at less than six years of age and also recommended the treatment to be considered for boys with onset of precocious puberty who have compromised height potential." Did I read that correctly? Yes, you did read that correctly. Are there any randomized controlled trials supporting the use of GnRH analogues to treat central precocious puberty to improve adult height? There to my knowledge, there's not a randomized controlled trial. There the comparators are between those that did and did not receive the GnRH agonists as far as their effects on final height. Sorry, to go back there, there are no randomized controlled trials, though, supporting the use of GnRH analogues to treat CPP to improve adult height; is that right? Correct. My understanding is that the data | 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 | | pubertal suppression would be appropriate? Yes. MR. RAMER: Objection to form. |
| 23 24 | A | compares those that did and did not receive | 23 24 | | puberty at age eight, a normal timed puberty; is that right? |
| 25 | | analogues and it was not in the setting of a | 25 | A | Actually, there's some data that suggests that |
| | | | | | |
| | | Page 115 | | | Page 117 |
| 1 | Q | randomized controlled trial. | 1 2 | | you could begin puberty even younger, as early as |
| 2 3 | Q | randomized controlled trial. Does pubertal suppression on its own permanently impair fertility? | 2 3 | | you could begin puberty even younger, as early as seven years. Generally when it occurs earlier, the tempo of progression is slow. The earliest |
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| | | dividual Members of the Medical Licensing Board | | | June 1, 2023 | , |
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| | | Page 118 | | | Page 120 | |
| - | | aight years of aga landing to the likelihood | | | what would astring? | |
| 1 | | eight years of age, leading to the likelihood | 1 | | what you're asking? | |
| 2 | | that they would have premature closure of their | 2 | - | In the circumstance when both patients go on the | |
| 3 | | growth plates and premature menarche, that would | 3 | | pubertal blockade for the different reasons, but | |
| 4 | | be an indication for suppressing that puberty | 4 | | come off it at the same time and undergo their | |
| 5 | | until that time to account for that, so I think | 5 | | endogenous puberty at the same time. | |
| 6 | | they are different. | 6 | А | So the antecedent to the introduction of that | |
| 7 | | The way you asked the question would not be | 7 | | intervention, there were things that were going | |
| 8 | | a situation that one would encounter, that if you | 8 | | on in the patient with precocious puberty that | |
| 9 | | had puberty at eight years of age, that somebody | 9 | | would not be present in the person that did not | |
| 10 | | who was just turning Tanner stage 2 with normal | 10 | | have precocious puberty and therefore the | |
| 11 | | linear growth, no bone age advancement, they | 11 | | influence on things like growth, age of menarche | |
| 12 | | would not be placed on a GnRH agonist. | 12 | | and and bone density would be different. | |
| 13 | Q | But if they were placed on a GnRH agonist for | 13 | Q | Are you aware of any studies showing the | |
| 14 | Y | gender dysphoria, it's your view that the four | 14 | Q | differences between those two populations of | |
| | | | | | | |
| 15 | | years from eight to twelve on that GnRH agonist | 15 | ٨ | people? | |
| 16 | | for the gender dysphoria would be different than | | Α | I am, but not in direct comparison. I'm aware of | |
| 17 | | the treatment for precocious puberty; am I | 17 | | studies that specifically look at the effects of | |
| 18 | | understanding you correctly? | 18 | | pubertal blockade in individuals with central | |
| 19 | | MR. RAMER: Objection to form. | 19 | | precocious puberty and those that examine the | |
| 20 | A | So, yes, they would be different in several | 20 | | effects of pubertal blockade in those with gender | |
| 21 | | respects. They are different in that one is | 21 | | dysphoria. That literature has been for the | |
| 22 | | interfering with a normally timed puberty. They | 22 | | central precocious puberty is readily available. | |
| 23 | | also would again, for the purposes of treating | 23 | | It's the whole basis by which there are many | |
| 24 | | gender dysphoria, there are effects on growth, | 24 | | patients that I have that would prefer to have | |
| 25 | | pubertal development, but also the likelihood | 25 | | puberty indefinitely postponed and have to show | |
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| | | | | | | |
| | | Page 119 | | | Page 121 | |
| | | - | | | - | _ |
| 1 | | that one will go on to later stages of | 1 | | them the data that shows that that by | _ |
| 2 | | that one will go on to later stages of intervention, so there's many differences between | 2 | | them the data that shows that that by interfering with puberty, there's a limit that is | |
| | | that one will go on to later stages of intervention, so there's many differences between those two scenarios and they are not the same | 2 3 | | them the data that shows that that by interfering with puberty, there's a limit that is considered, again, the risk versus benefit, and | |
| 2 | | that one will go on to later stages of intervention, so there's many differences between those two scenarios and they are not the same condition. | 2 | | them the data that shows that that by interfering with puberty, there's a limit that is considered, again, the risk versus benefit, and that's why we only do it for a defined period of | |
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M.D., PH.D. The Individual Members of the Medical Licensing Board June 1, 2023 Page 122 Page 124 1 O And this is, as it states, the Information for 1 O So you've never encountered in your work anything Authors and Submission Guidelines for the where the scientific evidence is counter to the 2 2 National Catholic Bioethics Quarterly. issues of faith, is that how you phrased it? 3 3 4 Any reason to doubt that that's what this 4 A I would say -is? MR. RAMER: Objection to form. 5 5 MR. RAMER: Objection to form. I would say that they are two different domains А 6 6 7 No reason -- no reason to doubt. of investigation, of academic or spiritual, you А 7 And so I'm just going to read the beginning of know, understanding. They speak to different 8 0 8 the submission guidelines, which state as questions, they have different tools, but in my 9 9 follows: "The National Catholic Bioethics experience as a physician scientist, I have not 10 10 Quarterly is the official journal of the National 11 encountered anything that is in contradiction, 11 Catholic Bioethics Center, an organization recognizing that they address different topics. 12 12 dedicated to research and the analysis of moral You haven't encountered anything that is in 13 O 13 issues arising in health care and the life contradiction with what? 14 14 sciences. The NCBQ seeks to foster intellectual MR. RAMER: Objection to form. 15 15 inquiry on moral issues by publishing articles So in my scientific understanding of things that 16 A 16 that address the ethical, philosophical, could be understood, confirmed scientific 17 17 theological and clinical questions raised by the 18 investigation, I've not encountered any 18 scientific findings that would contradict rapid pace of modern medical and technological 19 19 anything that is stated by the -- the Church. progress. Inspired by the harmony of faith and 20 20 reason, the NCBQ unites faith in Christ to 21 Q And so are your articles consonant with the 21 reasoned and rigorous reflection on the findings magisterium of the Catholic Church? 22 22 of the empirical and experimental sciences. MR. RAMER: Objection to form. 23 23 While the NCBQ is committed to publishing 24 A I will again state that I'm not a theologian and 24 25 material that is consonant with the magisterium 25 that I don't make a claim to be able to know that Page 123 Page 125 of the Catholic Church, it remains open to other with any certainty. I'm not aware of any 1 1 faiths and to secular viewpoints in the spirit of contradictions. 2 2 informed dialogue." зО And one of the book chapters that you wrote was 3 Were you aware of this mission of the in the book "Transgender Issues in Catholic 4 4 journal when you were invited to submit your Health Care," and that was published by the 5 5 articles for publication there? National Catholic Bioethics Center; is that 6 6 7 I don't recall reading this particular paragraph, 7 right? А 8 A but it was my general understanding, and I've had That is correct. 8 9 conversations with those on the editorial board 9 0 And you also received a certificate in healthcare of the journal, recognizing that the relationship ethics from the National Catholic Bioethics 10 10 Center? between faith and reason and the importance of 11 11 12 A 12 having scholarly articles that focus on Yes. scientific evidence. 13 Q And so let's pull up Exhibit 11. And this -- I 13 What does it mean to be consonant with the Q know we've also looked at this document together, 14 14 magisterium of the Catholic Church? Doctor. This is the National Catholic Bioethics 15 15 MR. RAMER: Objection to form. Center 2016 "Brief Statement on Transgenderism." 16 16 I'm not testifying as a theologian and I'm not If you could scroll down a bit, you can see the 17 Α 17 qualified to do so. citation there on the National Catholic Bioethics 18 18 My understanding is -- is that they're Center. There you go. 19 19 speaking about areas related to the faith part of So you've seen this document before; is that 20 20 that component of faith versus reason. right? 21 21 Yes. 22 A

- In my experience, I have never encountered a situation where the scientific evidence
- contradicts anything in the area of faith, which,
- again, is outside my area of expertise.

Min-U-Script®

23 Q

24

25

And on page 602, which is going to be a few pages

in -- we can stop there. In this paragraph under

the subheading in italics "Catholic Health Care,"

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| The | e Ind | lividual Members of the Medical Licensing Board | | | June 1, 2023 |
|----------|-------|--|--------|----|--|
| | | Page 126 | | | Page 128 |
| 1 | | it's the statement says as follows, "In light | 1 | | relation to the affirmative model for gender |
| 2 | | of the scientific evidence showing that | 2 | | dysphoria is based upon low quality of evidence |
| 3 | | transitioning has no demonstrated long-term | 3 | | with questionable questionable long-term |
| 4 | | therapeutic benefit, and in light of Catholic | 4 | | benefits, many concerns. And in that respect, |
| 5 | | teaching about the nature of the human person, no | 5 | | that is what I understand to be in agreement with |
| 6 | | Catholic health care organization should | 6 | | the statement in this paragraph. |
| 7 | | establish policies that positively affirm the | 7 | Q | And does that include what this statement refers |
| | | choice of any behavioral, hormonal, or surgical | | Q | to as the use of pronouns or sex specific |
| 8 | | gender transitioning of patients, personnel or | 8 9 | | identifiers that are explicitly contrary to a |
| 9 | | other persons served by the organization. In | | | person's biological sex? |
| 10 | | | 10 | | MR. RAMER: Objection to form. Beyond the |
| 11 | | addition, no Catholic health care organization | 11 | | |
| 12 | | should require its personnel to carry out, | 12 | ٨ | scope. |
| 13 | | promote, refer for or otherwise cooperate | 13 | A | It is as I said before, I am an expert as a |
| 14 | | formally in procedures involved in gender | 14 | | pediatric endocrinologist and physician |
| 15 | | transitioning, especially surgical or hormonal | 15 | | scientist. I am not a theologian. I am not |
| 16 | | interventions; require the use of pronouns or | 16 | | offering opinions related to areas outside of my |
| 17 | | sex-specific identifiers that are explicitly | 17 | 0 | area of expertise. |
| 18 | | contrary to a person's biological sex; or | 18 | Q | Well, as a physician scientist, what is your view |
| 19 | | otherwise require the affirmation of a false | 19 | | of using pronouns or sex specific identifiers |
| 20 | | sexual identity for any persons who are or are | 20 | | that are explicitly contrary to a person's |
| 21 | | planning on transitioning." | 21 | | biological sex? |
| 22 | | Did I read that correctly? | 22 | | MR. RAMER: Objection to form and scope. |
| 23 | А | If you're asking if you read the text there | | A | So I would say that it is important to recognize |
| 24 | | correctly, yes. | 24 | | sex-based differences between males and females |
| 25 | Q | Do you agree that no Catholic health care | 25 | | when one generates a differential diagnosis in a |
| | | | | | |
| | | Page 127 | | | Page 129 |
| 1 | | organization should have policies that positively | 1 | | treatment plan for any patients. To the extent |
| 2 | | affirm the behavioral, hormonal or surgical | 2 | | that one clouds that recognition and influences |
| 3 | | gender transitioning of patients, personnel or | 3 | | one's generation of that differential diagnosis |
| 4 | | other persons served by the organization? | 4 | | or treatment plan, that one needs to maintain and |
| 5 | | MR. RAMER: Objection to form. | 5 | | be aware of the sexual identity of that |
| 6 | А | I will state very clearly again that I am not | 6 | | individual to deliver proper care to that |
| 7 | | serving as an expert witness as a theologian and | 7 | | individual. |
| 8 | | don't hold opinions for this case in relation to | 8 | | In that respect, it is important to |
| 9 | | that. Neither do I work at a Catholic healthcare | 9 | | maintain to recognize and to maintain the |
| 10 | | institution. I work at a secular university, and | 10 | | sexual identity of that individual who is being |
| 11 | | therefore this is outside of the scope of my area | 11 | | cared for. |
| 12 | | of expertise. | | Q | Is sexual identity the same as pronoun use? |
| 13 | Q | Do you have personal beliefs that align with this | | Ă | In my experience as as a physician in |
| 14 | X | articulation in this in this paragraph? | 14 | 11 | practice, that when one uses pronouns that are |
| 15 | | MR. RAMER: Objection to form. Beyond the | 15 | | not in accord with one's sexual identity, it |
| 15 16 | | scope. | 16 | | leads to tremendous confusion and difficulty in |
| 10 17 | Δ | I have many personal beliefs that I hold on a | 17 | | being able to maintain that biological |
| 18 | Π | number of different topics. And in my role as a | 18 | | perspective. |
| | | physician scientist, one needs to assess the | | | I've been present on rounds where |
| 19 | | | 19 | | - |
| 20 | | scientific evidence, the component here that is in this statement here, and that is the purview | 20 | | sex-discordant pronoun usage has been used and I have seen directly the ways in which that |
| 21 | | in this statement here, and that is the purview that I am offering to this court in relation to | 21 | | have seen directly the ways in which that |
| 22 | | that I am offering to this court in relation to | 22 | | influences one's decision-making in an adverse |
| 23 | | the scientific evidence. And I would agree, as I stated repeatedly in | 23 | | way. I'm also aware of other reports and |
| 24 | | And I would agree, as I stated repeatedly in | 24 | | examples for which that has occurred in other |
| - | | • • • | | | acting a putoida of may institution and in |
| 25 | | my declaration, that the scientific evidence in | 25 | | settings outside of my institution, again, more |

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|--|-------------|--|--|---|--|
| | | Page 130 | | | Page 132 |
| 1 | | hearsay, but certainly I do think that it can | 1 | | assess that risk. One needs to understand if the |
| 2 | | affect one's effectiveness as a physician if one | 2 | | question the most common reason why that |
| 3 | | loses sight of or does not fully appreciate the | 3 | | individual would come to the attention of an |
| | | sexual identity of the individual and using | 4 | | endocrinologist is when they experience primary |
| 4 | | sex-discrepant pronoun usage does have an | | | amenorrhea, meaning that they go through puberty, |
| 5 | | influence on one's thinking. | 5 | | including breast development, they don't have any |
| 6 | Ο | | 6 | | |
| 7 | Q | Do you think that a physician scientist who is | 7 | | pubic hair or axillary hair development and they're not menstruating. That's usually the |
| 8 | | treating patients with CAIS who lived entirely as | 8 | | situation where we first recognize that they have |
| 9 | | a woman and used female pronouns for that individual could continue to treat her even | 9 | | e : |
| 10 | | though she had XY chromosomes? | 10 | | the condition. It would again, the pronoun use is not at issue here. It is recognizing the |
| 11 | | | 11 | | |
| 12 | ٨ | MR. RAMER: Objection to form. | 12 | | reason for the amenorrhea and being able to |
| 13 | A | Well, again, I'm not fully understanding your question. Can you repeat that in a way that I | 13 | | counsel that patient on any health risks that |
| 14 | | | 14 | | they have related to their condition, being able |
| 15 | Ο | can fully understand? Well you said that well as Lunderstand it | 15 | | to explain to them the basis of the disorder that |
| 16 | Q | Well, you said that well, as I understand it, | 16 | | occurred, and certainly which often comes as a |
| 17 | | you said that use of pronouns can can impact the shility of a medical provider to treat as I | 17 | | very difficult conversation about their |
| 18 | | the ability of a medical provider to treat, as I | 18 | Ω | infertility that they have. |
| 19 | | understand it, the sort of biological components | 19 | Q | But at some point it might be that you would |
| 20 | | of sex. Is that part of what you were what you were explaining? | 20 | | refer to this patient by a pronoun and still be |
| 21 22 | ٨ | Yes. | 21 | | able to treat all of these physical presentations |
| | | | 22 | | that they appear with, isn't that isn't that |
| 23 | Q | And that previously we were talking about certain individuals who have disordered excuse me | 23 24 | | right? MR. RAMER: Objection to form. |
| 24 | | | 24 25 | | Again, you're making some a very broad |
| 25 | | yeah, who have disorders of sexual development. | 23 | А | Again, you're making some a very broad |
| | | | | | |
| | | Page 131 | | | Page 133 |
| | | Page 131 | | | Page 133 |
| 1 | | Is that is that a population of people that | 1 | | statement. I think there are some aspects of the |
| 2 | ٨ | Is that is that a population of people that exist, we can agree on that? | 2 | | statement. I think there are some aspects of the care that would require recognition of the |
| 2 3 | A | Is that is that a population of people that exist, we can agree on that? Yes. | 2 3 | | statement. I think there are some aspects of the care that would require recognition of the underlying disorder of sexual development and |
| 2 3 4 | A Q | Is that is that a population of people that exist, we can agree on that? Yes. And so one of those people might be someone with | 2 3 4 | | statement. I think there are some aspects of the care that would require recognition of the underlying disorder of sexual development and other aspects that would be independent of that. |
| 2 3 4 5 | | Is that is that a population of people that exist, we can agree on that? Yes. And so one of those people might be someone with CAIS, complete androgen insensitivity syndrome, | 2 3 4 5 | | statement. I think there are some aspects of the care that would require recognition of the underlying disorder of sexual development and other aspects that would be independent of that. In that situation, I think using the female |
| 2 3 4 5 6 | | Is that is that a population of people that exist, we can agree on that? Yes. And so one of those people might be someone with CAIS, complete androgen insensitivity syndrome, who may have male chromosomes and other typically | 2 3 4 5 6 | | statement. I think there are some aspects of the care that would require recognition of the underlying disorder of sexual development and other aspects that would be independent of that. In that situation, I think using the female pronouns would not be problematic. And, in fact, |
| 2 3 4 5 6 7 | | Is that is that a population of people that exist, we can agree on that? Yes. And so one of those people might be someone with CAIS, complete androgen insensitivity syndrome, who may have male chromosomes and other typically male biological features but who would likely use | 2 3 4 5 6 7 | | statement. I think there are some aspects of the care that would require recognition of the underlying disorder of sexual development and other aspects that would be independent of that. In that situation, I think using the female pronouns would not be problematic. And, in fact, in my own experience that is generally what is |
| 2 3 4 5 6 7 8 | | Is that is that a population of people that exist, we can agree on that? Yes. And so one of those people might be someone with CAIS, complete androgen insensitivity syndrome, who may have male chromosomes and other typically male biological features but who would likely use the pronouns, say, she/her. | 2 3 4 5 6 7 8 | _ | statement. I think there are some aspects of the care that would require recognition of the underlying disorder of sexual development and other aspects that would be independent of that. In that situation, I think using the female pronouns would not be problematic. And, in fact, in my own experience that is generally what is done for these affected individuals. |
| 2 3 4 5 6 7 8 9 | | Is that is that a population of people that exist, we can agree on that? Yes. And so one of those people might be someone with CAIS, complete androgen insensitivity syndrome, who may have male chromosomes and other typically male biological features but who would likely use the pronouns, say, she/her. Would use of the pronouns she/her for that | 2 3 4 5 6 7 8 9 | ~ | statement. I think there are some aspects of the care that would require recognition of the underlying disorder of sexual development and other aspects that would be independent of that. In that situation, I think using the female pronouns would not be problematic. And, in fact, in my own experience that is generally what is done for these affected individuals. But when you are treating the underlying disorder |
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| The In | dividual Members of the Medical Licensing Board | 1 | June 1, 2023 |
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| | Page 134 | | Page 136 |
| 1 | pronouns not telling their practitioner that they | 1 | not have a recognition of when we speak about the |
| 2 | are biologically female and not being able to | 2 | complementarity between male and female forms, it |
| 3 | entertain the diagnosis for abdominal pain of | 3 | actually speaks to what I discuss in my |
| | being related to pregnancy and labor. That's an | 4 | declaration of the unique roles of males and |
| 4 | | | |
| 5 | example, you wouldn't encounter that in a patient | 5 | females in that reproductive process, that the |
| 6 | with a DSD. | 6 | physical structures of the body are intrinsically |
| 7 | So, again, to make a blanket statement about | 7 | oriented toward the respective roles of males and |
| 8 | a rare condition and the application of these | 8 | females in that reproductive process, that that |
| 9 | general principles and, again, they are | 9 | is something that is central to the human body |
| 10 | general principles that need to be applied to | 10 | and it reflects a purpose. |
| 11 | unique patient situations, about the prudence of | 11 | The teleological complementarity relates to |
| 12 | doing that. | 12 | the unique role of males and females that are |
| 13 | As I understood your initial question, it | 13 | that are designed by their very nature to |
| 14 | was can it influence the accuracy of diagnosis, | 14 | participate in that reproductive engagement. |
| 15 | and the answer is yes. | 15 Q | |
| 16 Q | 5 | 16 | that your scientific inquiry is not in |
| 17 | question, but we can we can move on because | 17 | contradiction with the teachings of the church? |
| 18 | it's been a while here. | 18 | MR. RAMER: Objection to the form. |
| 19 | So if we could pull up Exhibit 12. And this | 19 A | |
| 20 | is one of your articles, I believe, in the | 20 | male and female in the biological realm, |
| 21 | National Catholic Bioethics Quarterly. Does this | 21 | independent of any theological assumptions, there |
| 22 | look like, "The Use of Cross-Sex Steroids in | 22 | is a well recognized complementarity between male |
| 23 | Treatment of Gender Dysphoria," was this | 23 | and female forms. There are, indeed, in fact, |
| 24 A | | 24 | not only the physical structures involved in |
| 25 Q | And this was published in the National Catholic | 25 | the in the act of sexual intercourse, but also |
| | | | |
| | | | |
| | Page 135 | | Page 137 |
| 1 | - | 1 | |
| 1 2 A | Bioethics Quarterly; is that right? | 1 | in the genetic differences between males and |
| 2 A | Bioethics Quarterly; is that right? Yes. | 2 | in the genetic differences between males and females that pertain to the unique roles of males |
| 2 A 3 Q | Bioethics Quarterly; is that right? Yes. And if we could go to page 662 of of the | 2 3 | in the genetic differences between males and females that pertain to the unique roles of males and females in the rearing of children that come |
| 2 A 3 Q 4 | Bioethics Quarterly; is that right? Yes. And if we could go to page 662 of of the article. I think no, no, if you scroll down, | 2 3 4 | in the genetic differences between males and females that pertain to the unique roles of males and females in the rearing of children that come from that reproductive act. |
| 2 A 3 Q 4 5 | Bioethics Quarterly; is that right? Yes. And if we could go to page 662 of of the article. I think no, no, if you scroll down, the numbers are at the top, so it's right here. | 2 3 4 5 | in the genetic differences between males and females that pertain to the unique roles of males and females in the rearing of children that come from that reproductive act. We see this in the animal kingdom well |
| 2 A 3 Q 4 5 6 | Bioethics Quarterly; is that right? Yes. And if we could go to page 662 of of the article. I think no, no, if you scroll down, the numbers are at the top, so it's right here. And just at the top of the page, first | 2 3 4 5 6 | in the genetic differences between males and females that pertain to the unique roles of males and females in the rearing of children that come from that reproductive act. We see this in the animal kingdom well beyond humans in which there is there are |
| 2 A 3 Q 4 5 6 7 | Bioethics Quarterly; is that right? Yes. And if we could go to page 662 of of the article. I think no, no, if you scroll down, the numbers are at the top, so it's right here. And just at the top of the page, first complete sentence, so in this article you write, | 2 3 4 5 6 7 | in the genetic differences between males and females that pertain to the unique roles of males and females in the rearing of children that come from that reproductive act. We see this in the animal kingdom well beyond humans in which there is there are traits that males have more predominant than |
| 2 A 3 Q 4 5 6 7 8 | Bioethics Quarterly; is that right? Yes. And if we could go to page 662 of of the article. I think no, no, if you scroll down, the numbers are at the top, so it's right here. And just at the top of the page, first complete sentence, so in this article you write, "In stark contrast to Pope St. John Paul II's | 2 3 4 5 6 7 8 | in the genetic differences between males and females that pertain to the unique roles of males and females in the rearing of children that come from that reproductive act. We see this in the animal kingdom well beyond humans in which there is there are traits that males have more predominant than females, again, there's significant overlap, that |
| 2 A 3 Q 4 5 6 7 8 9 | Bioethics Quarterly; is that right? Yes. And if we could go to page 662 of of the article. I think no, no, if you scroll down, the numbers are at the top, so it's right here. And just at the top of the page, first complete sentence, so in this article you write, "In stark contrast to Pope St. John Paul II's teaching on the theology of the body, which | 2 3 4 5 6 7 8 9 | in the genetic differences between males and females that pertain to the unique roles of males and females in the rearing of children that come from that reproductive act. We see this in the animal kingdom well beyond humans in which there is there are traits that males have more predominant than females, again, there's significant overlap, that give an advantage in different roles in raising |
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|--|---|--|--------|--|
| | Page 138 | | | Page 140 |
| 1 | male and female and the complementarity between | 1 | | this patient population." |
| 2 | them from a purely scientific and biological | 2 | | Did I read that correctly? |
| 3 | nature is entirely consistent with this | | А | Yes, you did. |
| 4 | teleological complementarity that is addressed in | | Q | And you're aware that one of the parents that you |
| 5 | this paragraph in this paper. | 5 | × | met with recently testified at the trial in |
| 6 | Q And do you believe that males and females have | 6 | | Dekker in Florida; is that right? |
| 7 | unique roles in child-rearing? | | А | If you're referring to Ms. Hutton, yes. |
| 8 | MR. RAMER: Objection to form. | 8 | Q | Yes, I am. And in her testimony, she explained |
| 9 | A So I would say that as I said before, that | 9 | Y | that during the course of the conversation that |
| 10 | there's obvious differences between males and | 10 | | she had with you about her child with gender |
| 11 | females in that females are able to breastfeed | 11 | | dysphoria, you brought up the teaching of Pope |
| 12 | and males are not. Females are able to gestate, | 12 | | St. John Paul II; is that right? |
| 13 | you know, and be able to deliver babies. The | 13 | | MR. RAMER: Objection to form. |
| 14 | male has a role of delivering sperm to the | 14 | А | To properly answer the question, I would need to |
| 15 | female, which is a unique role of the male, so | 15 | | explain the context of that conversation. |
| 16 | there are clear differences between males and | | Q | I don't I don't I don't I don't want the |
| 17 | females. | 17 | × | context. I just want to know did you bring up |
| 18 | And in the rearing of the children, now, | 18 | | the teaching of Pope St. John Paul II in your |
| 19 | recognizing that there's overlap between these | 19 | | conversation with Ms. Hutton? |
| 20 | traits and that there are roles that can be | 20 | | MR. RAMER: Objection to form. |
| 21 | assumed by both members of the of any species, | 21 | А | As was asked and responded to in the trial |
| 22 | not just humans, there are there are distinct | 22 | | transcript, I answered yes to that. Yes, it was |
| 23 | advantages based upon the genetic and epigenetic | 23 | | referred to. |
| 24 | differences between the male and female. | 24 | | MR. STRANGIO: Okay. So I could keep going, |
| 25 | | 25 | | John and Doctor, or this is I'm sort of at the |
| | | | | · |
| | | | | |
| | Page 139 | | | Page 141 |
| 1 | Page 139 last page, I believe wait, go up. Sorry, the | 1 | | Page 141 end of that particular line of questions, so we |
| 1 2 | | 1 2 | | - |
| | last page, I believe wait, go up. Sorry, the | | | end of that particular line of questions, so we |
| 2 | last page, I believe wait, go up. Sorry, the beginning of the conclusion. | 2 | | end of that particular line of questions, so we could break for lunch, we could break short. Do |
| 2 3 | last page, I believe wait, go up. Sorry, the beginning of the conclusion. At the right below "Future Directions," the sort of second clause of that first sentence, you write, "It is clear that the use of cross-sex | 2 3 | | end of that particular line of questions, so we could break for lunch, we could break short. Do you have a preference? I'm amenable to either. MR. RAMER: I defer to Dr. Hruz. It sounds like he was inclined to take a short break and |
| 2 3 4 | last page, I believe wait, go up. Sorry, the beginning of the conclusion. At the right below "Future Directions," the sort of second clause of that first sentence, | 2 3 4 | | end of that particular line of questions, so we could break for lunch, we could break short. Do you have a preference? I'm amenable to either. MR. RAMER: I defer to Dr. Hruz. It sounds |
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| | | Page 142 | | Page 144 |
| 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 | Q A Q A | And you received a certification in healthcare ethics from this center; is that correct? That is correct. But you have no sense of whether treatment with gender-affirming care for patients with gender dysphoria is consonant with the magisterium of the Catholic Church? MR. RAMER: Objection to form. Asked and answered. That is a question related to a theological issue, and I'm testifying as a physician scientist, and my the basis of my opinions in this case are based upon scientific evidence, not theological principles. Oh, I'm not asking if it's the basis of your opinion. I'm just asking based on your understanding, is the provision of gender-affirming care to treat gender dysphoria consonant with the magisterium of the Catholic Church? MR. RAMER: Objection to form. Asked and | 1 2 3 4 5 6 7 8 4 9 10 11 12 13 14 15 16 17 18 19 20 21 20 | asserting of pronouns, dress in agreement with that gender identity that's discordant with one's biological sex. As a physician scientist, do you oppose social transition as an intervention for patients? MR. RAMER: Objection to form. Beyond the scope. Although it's beyond what I'm offering in this case, the question that I ask is what is the effect of social affirmation in the likelihood that one is going to proceed on to receiving hormonal interventions. Again, as a physician scientist and an endocrinologist, I'm aware of the literature that shows quite clearly that nearly that there is it's not a neutral intervention, that those that are socially affirmed are much more likely to proceed on to pubertal blockade. Those that receive pubertal blockade, almost all go on to receive cross-sex hormones. |
| 22 | | answered. Beyond the scope. | 22 | of social affirmation on the progression to |
| 23 | А | Again, I don't I don't have a basis to speak | 23 | medical interventions, that is the realm that |
| 24 | | for that organization and I'll reserve my | 24 | that I'm aware of as my in my role as a |
| 25 | | comments to my role as a physician scientist and | 25 | physician scientist and endocrinologist. |
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| 1 | Q | Page 143 pediatric endocrinologist. And just one question on a topic we covered | 1 Q 2 | Page 145 Does existing evidence tell you anything about causation with respect to social transition and |
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made.

can answer.

- 1 endocrinologist would be called upon to -- to 1 intervene in this condition, so that is --2 2 certainly as in other areas, one needs to 3 3 4 consider and -- but there's an absence of the 4 high quality studies that need to be done to 5 5 establish that causal relationship. 6 6
- 7 0 Is it your view that any psychological treatment
- or social transition or affirmation are beyond 8 the scope of your expertise in this particular 9 case? 10
- MR. RAMER: Objection to form. 11
- The -- the degree to which I am opining is 12 А contained within my declaration, and it involves 13 really the -- the point at which the pediatric 14 endocrinologist is engaged in assessing the 15 16 relative risks and benefits of medical and gender affirmation. 17
- 18 0 So in the past you have weighed in as -- as amicus in at least one case involving the use of 19 20 pronouns at a university; is that right?
- Α Yes, many years ago, so if we're going to talk 21 about that, it would be good to bring up and 22
- discuss within the context of where those 23
- statements were made, but, yes. 24
- 25 0 We don't need to go into any amount of detail,

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- but just some general questions about pronoun use 1 1 in adults. If you recall -- do you at least 2 recall that the case concerned an adult college 3 student and a professor? 4 Α I would need more information to refresh my 5 6 memory on the specific document that you're speaking of. 7 0 Well, so why don't we just speak in generalities 8 9 because we don't need to go through an amicus brief, I don't think, but we can maybe come back 10 10 to it. 11 11 Do you believe it is a lie to refer to 12 12 someone by a pronoun other than the one that we 13 13 typically associate with their natal sex? 14 14 MR. RAMER: Objection to form. 15 15 А I will state again that if you're asking me to 16 O 16 opine on statements that were made in a document 17 17 that are taken out of context that may convey an 18 18 19 incorrect portrayal of how I made that statement, 19 I'm not able to do that. 20 20 Q I'm not reading from a document. I'm just asking 21 21 you as -- as Dr. Hruz, do you believe it is a lie 22 22 23 to refer to a person by a pronoun other than the 23 one that we typically associate with their natal 24 24
 - maintained to be able to best serve that individual. In my practice, I've not -- has not necessitated me doing so. I think the most compassionate way to maintain both the biological reality of the patient that's presenting to me for care and respecting where they're at with their understanding of their gender identity is to engage in a conversation where gender neutral terms are used and therefore one can accomplish the goal of accepting the sensitivity of one's understanding of their sexual identity, but also maintain that biological sexual identity that is present, and that's been very effective for me in my practice, and most -- actually, I've never had a situation where a patient has objected to that.

MR. RAMER: Objection to form.

So I would say using the word lie implies an

understanding of the intent of the individual and

their understanding, so, again, I would need to

look at the context of which that statement was

made in relation to accepting an understanding of

one's sexual identity that is not objectively

statement, again, so that's -- that's the best I

And in your -- starting with in your medical

practice, are you personally opposed to referring

to a transgender person by pronouns other than

So in my practice, one needs to be sensitive to

the individual and their individual needs. My

role is generally relegated to delivering care

for endocrinologic issues, and we've already

stated the basis by which I think it is very

important to maintain that sexual identity.

hypothetically one could establish a relationship

with a patient where that understanding could be

I can see circumstances where theoretically,

the ones that align with their natal sex?

true, then it would at least be a false

I would say that if the statement is being

- And what about outside your practice, just in your personal and professional life, with a colleague or someone else, would you object to referring to someone with pronouns different than those typically associated with their natal sex?
- MR. RAMER: Objection to form. Beyond the scope.
- Α There are a multitude of types of circumstances where conversations such as that might occur, and, in general, I'm fairly consistent in my

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sex?

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| The | e Inc | lividual Members of the Medical Licensing Board | | | June 1, 2023 |
|----------|-------|--|----------|---|---|
| | | Page 150 | | | Page 152 |
| 1 | | approach, and, therefore, because I do in my medical practice, I tend to engage in those | 1 | Q | Do you consider the provision of gender-affirming medical interventions to adolescents with gender |
| 3 | | conversations in the same way with colleagues in | 3 | | dysphoria to be a form of child abuse? |
| 4 | | other situations, but without having the details | 4 | | MR. RAMER: Objection to form. Calls for a |
| 5 | | of a context of the conversation and the person | 5 | | legal conclusion. |
| 6 | | that I'm speaking to, you know, I would say that | | А | 0 |
| 7 | | my general approach is to use gender neutral | 7 | | offering my expertise as a physician scientist, a |
| 8 | | language. | 8 | | pediatric endocrinologist to the care of |
| 9 | Q | For every person or just people you perceive to | 9 | | individuals that are requesting medical |
| 10 | | be transgender? | 10 | | interventions that involve cross-sex hormones and |
| 11 | | MR. RAMER: Objection to form. Beyond the | 11 | | puberty blockers. |
| 12 | | scope. | 12 | | The question that you're asking me is |
| 13 | А | So I think that it's pretty obvious in my | 13 | | outside of the opinions that I'm offering in this |
| 14 | | conversations with other people outside of the | 14 | | case and really involve a a question about |
| 15 | | area of gender dysphoria where one can use, you | 15 | | you know, I would say that if one looks at what |
| 16 | | know, the pronouns that are consonant with one's | 16 | | the relative risk and benefit is and one has |
| 17 | | biological sex. That is not something I think | 17 | | concluded that one is engaging in an activity |
| 18 | 0 | about. I just as most people do. | 18 | | that one has a high degree of confidence is |
| 19 | Q | But if you think a person might be expressing | 19 | | causing harm to that individual, then the |
| 20 | | themselves different than their biological sex, | 20 | | assessment would depend upon what the intention |
| 21 | | you would use gender neutral pronouns; is that right? | 21 | | and knowledge of that person would that was engaging in that. |
| 22 23 | | MR. RAMER: Objection to form. Beyond the | 22 23 | | Generally in medicine, we tend to want to |
| 24 | | scope. | 23 24 | | maximize benefit and minimize harm, and there are |
| 25 | А | Again, you're asking a hypothetical, and I think | 25 | | questions in relation to the engagement of |
| | | | | | 1 |
| | | Page 151 | | | Page 153 |
| 1 | | there are many circumstances that would influence | 1 | | gender-affirming medical interventions where one |
| 2 | | the answer to that question. And I've not | 2 | | is altering the body in a way that has |
| 3 | | encountered situations that you're referring to | 3 | | potentially irreversible effects on ability to |
| 4 | | where there's ever been difficulty in having that | 4 | | participate in reproduction, health risks, and |
| 5 | | conversation with somebody, whether I suspected | 5 | | unknown and uncertain benefit. |
| 6 | | or knew that they had a sex-discordant gender | | Q | • • • • |
| 7 | | identity, so, again, you're asking very general | 7 | | the Transgender Care Center at Washington |
| 8 9 | | questions that are private conversations with individuals that would depend upon the | 8 | | University are intentionally harming their patients? |
| 10 | | circumstances, and my approach is generally | 10 | | MR. RAMER: Objection to form. |
| 11 | | consistent. | | Α | So you're asking me to speculate on what the |
| 12 | Q | And when you say your approach is generally | 12 | | motivations are of my colleagues. I can only |
| 13 | · | consistent, that is to use gender neutral | 13 | | share with you the conversations that I've had |
| 14 | | language; is that right? | 14 | | with them as I shared with them my concerns about |
| 15 | | MR. RAMER: Objection to form. Asked and | 15 | | the scientific evidence, the relative risks and |
| 16 | | answered. | 16 | | the purported benefits. Most of them are not |
| 17 | А | Actually that's not what I said. I I said | 17 | | aware of the literature that I'm aware of and |
| 18 | | that in the situations where I perceive that | 18 | | that others that and or they don't |
| 19 | | there may be difficulty in using a pronoun that | 19 | | recognize the difficulties in the scientific |
| 20 | | is consonant with one's sexual identity, I will | 20 | | evidence base that is present. |
| 21 | | use gender neutral language. That applies only | 21 | | Most of them believe that they are providing |
| 22 | | to those situations where I have that perception. | 22 | | help to these individuals. And there's a |
| 23 | | And, again, I've never encountered any | 23 | | profound disagreement based upon objective |
| 24 | | conversations where one has been offended with the way that I've referred to them. | 24 | | scientific data in my conclusions versus their approach. |
| 25 | | | 25 | | approach. |
| | | | | | |

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| | , 1110 | lividual Members of the Medical Licensing Board | | | June 1, 2023 | |
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| | | Page 154 | | | Page 156 | |
| 2 3 | Q | Is it your expert opinion that no individual can ever benefit from gender-affirming medical care to treat gender dysphoria? You're asking this is actually one of the concerns I have with the way that the research is presented. That is, in the area of scientific investigation in medicine, one would be very cautious about using a definitive statement of that nature. I think that the way I look at this is assessing the relative risk versus relative benefit and trying to maximize benefit and minimize harm to these individuals based upon all of the Belmont principles and ethics of medical practice, so that I think it would be one would be a very poor scientist if one began making a definitive conclusion without investigating. I think many in the field here have made those definitive conclusions on the contrary. You know, I mean, they make the statements that they know it's going to be beneficial when they | 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | A Q | for whom the relative benefits outweigh the relative risks? MR. RAMER: Objection to the form. As I stated previously, I think as a scientist, one needs to be open to hypotheses and the conduct of experimentation to be able to answer those questions. If I approached science with a conclusion without evidence, that would not be proper science. I know that you're cautioning about sort of speaking in categoricals, but law is very categorical and this is a circumstance in which the law is operative to categorically restrict care for everyone. It's not an individualized weighing of the risks and benefits, so I just want to get at sort of just you know, sort of given that context, could there be someone, just you know, even if it's a hypothesis that there might be a person for whom the relative benefits of the treatment might outweigh the relative risks? | |
| 23 | | really don't have the evidence to support that, | 23 | | MR. RAMER: Objection to the form. | |
| | | • • • • • • | | ۸ | | |
| 24 | 0 | SO. | | Α | | |
| 25 | Q | Who who has made that that statement that | 25 | | hypothetical with all of the circumstances not | |
| | | | | | | |
| 1 | | Page 155 | 1 | | Page 157 | |
| 1 | | they know it's going to be beneficial for an | 1 | | apparent in the discussion, if one were to | |
| 2 | ٨ | they know it's going to be beneficial for an individual patient? | 2 | | apparent in the discussion, if one were to speculate whether a thousand people would be | |
| 2 3 | A | they know it's going to be beneficial for an individual patient? Your own plaintiff witnesses have made repeated | 2 3 | | apparent in the discussion, if one were to speculate whether a thousand people would be harmed and one would be helped, one could argue | |
| 2 3 4 | A | they know it's going to be beneficial for an individual patient? Your own plaintiff witnesses have made repeated statements in their declarations saying that this | 2 3 4 | | apparent in the discussion, if one were to speculate whether a thousand people would be harmed and one would be helped, one could argue that prudence would suggest to prevent the harm | |
| 2 3 4 5 | A | they know it's going to be beneficial for an individual patient? Your own plaintiff witnesses have made repeated statements in their declarations saying that this is a form of intervention that has proven to be | 2 3 4 5 | | apparent in the discussion, if one were to speculate whether a thousand people would be harmed and one would be helped, one could argue that prudence would suggest to prevent the harm to that thousand individuals to at the risk of | |
| 2 3 4 5 6 | A | they know it's going to be beneficial for an individual patient? Your own plaintiff witnesses have made repeated statements in their declarations saying that this is a form of intervention that has proven to be effective and and it's contained well within | 2 3 4 5 6 | | apparent in the discussion, if one were to speculate whether a thousand people would be harmed and one would be helped, one could argue that prudence would suggest to prevent the harm to that thousand individuals to at the risk of preventing the benefit for that one. | |
| 2 3 4 5 6 7 | A | they know it's going to be beneficial for an individual patient? Your own plaintiff witnesses have made repeated statements in their declarations saying that this is a form of intervention that has proven to be effective and and it's contained well within their declarations making definitive statements | 2 3 4 5 6 7 | | apparent in the discussion, if one were to speculate whether a thousand people would be harmed and one would be helped, one could argue that prudence would suggest to prevent the harm to that thousand individuals to at the risk of preventing the benefit for that one. Again, this is a hypothetical and it cannot | |
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|--|----------------------------|--|--|--------------|--|
| | | Page 158 | | | Page 160 |
| - | | mentioned to you that I I am earing for meanly | - | \mathbf{O} | So going to noncomp 21 of of your report of |
| 1 | | mentioned to you that I I am caring for people | 1 | Q | So going to paragraph 21 of of your report, so |
| 2 | | in my clinic or in the hospital that are | 2 | | that would be Exhibit 1. |
| 3 | | receiving affirmative medical interventions as I | 3 | | Paragraph 21, so maybe a few pages down. I |
| 4 | | care for their other endocrine diseases, so I've | 4 | | can see there we go. Thank you. |
| | | | | | e . |
| 5 | 0 | already actually answered that. | 5 | | So this is where you're talking about gender |
| 6 | Q | Any others outside your clinical practice? | 6 | | identity, and you write, "Gender identity refers |
| 7 | | MR. RAMER: Objection to the form. Beyond | 7 | | to a person's individual experience and |
| 8 | | the scope. | 8 | | perception and unverified verbal" excuse me, |
| 9 | А | It certainly is beyond the opinions I'm offering | 9 | | "unverified verbal patient reports of how they |
| | Π | | | | |
| 10 | | in this case. But I would say that one of the | 10 | | experience being male or female or a combination |
| 11 | | individuals that was an active participant in our | 11 | | of these or other categories. The term gender |
| 12 | | DSD clinic would fit into that category. | 12 | | identity is controversial. There is no current |
| 13 | Q | And has anyone ever told you that they benefited | 13 | | worldwide definition of gender identity accepted |
| | × | from gender-affirming medical interventions to | 14 | | by the relevant clinical communities. The |
| 14 | | | | | |
| 15 | | treat their gender dysphoria? | 15 | | measurement error rate for gender identity is |
| 16 | | MR. RAMER: Objection to the form. | 16 | | unknown." |
| 17 | Α | So you're you're asking well, I would say | 17 | | Did I read that correctly? |
| 18 | | that there are many that have the belief that | 18 | Δ | Yes, you did. |
| | | | | | |
| 19 | | they are benefited by this intervention. I don't | 19 | Q | What do you mean by "the term gender identity is |
| 20 | | rely upon those subjective data when I'm looking | 20 | | controversial"? |
| 21 | | at the scientific literature about what the | 21 | А | I would what I mean by that is that people use |
| 22 | | long-term outcomes are, which we don't have clear | 22 | | that term in different ways for different |
| 23 | | answers, but I am aware of individuals that in | 23 | | purposes. It's not uniform. Some actually |
| | | | | | 1 I · |
| 24 | | fact, Ms. Hutton in her testimony gave a story of | 24 | | conflate sexual identity and gender identity and |
| 25 | | her experience with her child. I don't have the | 25 | | use them interchangeably. Some are restricting |
| | | | | | |
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| | | Page 159 | | | Page 161 |
| | | Page 159 | | | Page 161 |
| 1 | | - | 1 | | |
| | | basis to assess, you know, the details of what's | | | that to one's perception of their gender |
| 2 | | basis to assess, you know, the details of what's going on in that particular case, but that is an | 2 | | that to one's perception of their gender identity. |
| 2 3 | | basis to assess, you know, the details of what's going on in that particular case, but that is an example of something that has been presented to | 2 3 | | that to one's perception of their gender identity. The whole concept of gender based upon |
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| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 3 4 5 7 8 9 | Q A A | care for various endocrinologic disorders. Is sexual identity the same as biological sex? I would say they're they're very equivalent, yes. We're talking about the biological nature of that person as it relates to all of the factors that I outlined in my declaration that are in regards to reproductive orientation. What do you mean by error rate for gender identity? By that I mean that what is the when somebody claims to have a particular gender identity, it relates to how accurate that is, whether one is going to for example, we know with sexual identity that the error rate is very small, less than 0.02 percent in being able to look at the appearance of the external genitalia and be able to recognize that sexual identity. When one looks at gender identity, there are many unknowns. For example, there are many that claim those that present with sex-discordant gender identity that later recognized that there was another problem, the term that we often describe as desistance, those error rates, if you consider that an error rate, somebody I know | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 | A Q | of sexual differentiation which is initiated at the union of the sperm and an egg will determine which pathway one goes through. In that sexual differentiation from male to female phenotypes, there's a complex cascade of signaling processes that are present directed by predominantly SRY, which is the sex determining region of the Y chromosome. There are other factors that are involved in that differentiation process. There are things that can occur to disrupt that normal differentiation process, but as stated in this sentence, it is an objective biological phenomenon that is recognized, not assigned at birth. And except in the case of people with disorders of sexual development in which there are sex assignments made at birth; is that right? That is correct. What makes someone an expert on the treatment of gender dysphoria? MR. RAMER: Objection to form. There are many who claim to be experts. People it depends on one's training, experience, knowledge of the scientific | |
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| Ż | 25 | | many that argue that if one has that experience, | 25 | | literature. There are many different areas | |
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| | 1 2 3 4 5 6 7 | | Page 163 they never were truly, quote, transgender, unquote, that that would involve an error in the understanding of that perceived identity of that individual. It is unknown because much of the literature fails to recognize long-term follow-ups. Many of the studies involve patients that are lost to follow-up. | 1 2 3 4 5 6 7 | | Page 165 related to what we consider expertise, and that can involve the scientists, that can involve the clinician. I think it relates to the understanding of the field, not only in gender dysphoria, but any field of medicine, and to be able to to be able to make a definitive or to make solid assessments of of the of the | - |
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| 1 110 | | iividual Members of the Medical Licensing Board | | | June 1, 2025 |
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| | | Page 166 | | | Page 168 |
| 1 | | benefits of that intervention. | 1 | | on on my knowledge, what I can contribute to |
| 2 | | So being aware of the model of care and the | 2 | | this court case. |
| | | relative risks and benefits, the scientific | 3 | Q | But you didn't know of Dr. Weiss, who is an |
| 3 | | | | Q | • |
| 4 | | studies in relation to that and being recognized | 4 | | endocrinologist, prior to this case? |
| 5 | | by my peers, being invited to give medical grand | 5 | | MR. RAMER: Objection to form. Asked and |
| 6 | | rounds, being invited to deliver lectures, being | 6 | | answered. |
| 7 | | asked to to contribute to the scholarly | 7 | А | 1 5 |
| 8 | | literature all are reflections of one who has | 8 | | with Dr. Weiss and don't have a basis to make any |
| 9 | | established a a degree of expertise in a | 9 | | determination. |
| 10 | | particular field. | 10 | Q | Do you know who Diane Kenny is? |
| 11 | Q | Are there other people other than yourself that | 11 | А | Diane Kenny? |
| 12 | | you would consider experts on the treatment of | 12 | Q | Yeah, K-E-N-N-Y. Do you know who Diane Kenny is? |
| 13 | | gender dysphoria? | | À | No. |
| 14 | А | By that definition, yes. | | Q | Do you know who Christopher Kaliebe is? |
| 15 | | And who are who are they? | | À | No. |
| 16 | _ | It's a very extensive list. I know many that | 16 | | Do you know who James Cantor is? |
| | 11 | | 17 | _ | Yes. |
| 17 | | have a similar knowledge that are, for a variety | 17 | | |
| 18 | | of reasons, based on other professional and | | Q | Were you familiar with James Cantor prior to this |
| 19 | | personal obligations are not, like myself, | 19 | | case? |
| 20 | | willing to to speak and engage in the | | Α | Only from things that have been read and that he |
| 21 | | conversation. The list is so extensive that | 21 | | has published on Internet articles. |
| 22 | | there is no possible way that I would be able to | 22 | | MR. STRANGIO: I might be close to done |
| 23 | | give you that list. | 23 | | here, John, if I can just take five to chat with |
| 24 | | Many of them have served as experts in the | 24 | | my team and then we can come back. |
| 25 | | legal cases that we're talking about here. Many | 25 | | MR. RAMER: Sounds good. Does that work for |
| | | | | | |
| | | | | | |
| | | Page 167 | | | Page 169 |
| | | - | | | - |
| 1 | | have also contributed to the literature in this | 1 | | you, Doctor? |
| 2 | | have also contributed to the literature in this area. They've been involved in some of the | 2 | | you, Doctor? THE WITNESS: That'd be fine. |
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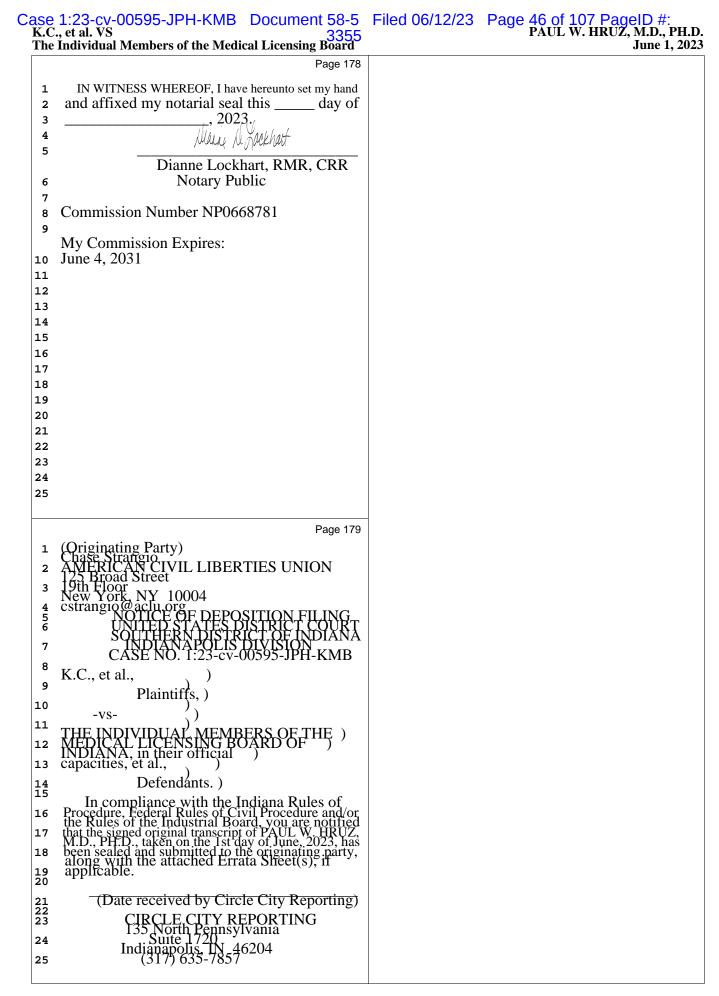
Case 1:23-cv-00595-JPH-KMB Document 58-5 Filed 06/12/23 Page 44 of 107 PageID #: K.C., et al. VS 3353 The Individual Members of the Medical Licensing Board June 1, 2023

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|---|--|--|--|---|--|--------|
| | | Page 170 | | | Page 172 | |
| | . A | So I think it depends on what you how you | 1 | | MR. RAMER: Objection to the form. Beyond | |
| | | define experts. And I've already provided my | 2 | | the scope. | |
| | | definition of what is necessary to be an expert. | | ٨ | 1 | |
| 1 | | | | Α | Again, beyond what I'm going to be testifying in | |
| 4 | | My colleague, Dr. Lewis, has delivered | 4 | | this case. There is more evidence in the adult | |
| 5 | | presentations at Washington University that are | 5 | | literature than there are in the in the | |
| e | 5 | generally devoid of discussion of the level of | 6 | | pediatric world as far as long-term effects. | |
| 5 | , | science that I generally speak about. | 7 | | Some of them are different questions. There are | |
| 8 | , Q | Does someone need to have your level of | 8 | | shared concerns. Much of what we are applying to | |
| 2 |) | understanding of the scientific literature in | 9 | | the care of adolescents is based upon long-term | |
| 10 |) | order to be an expert in the treatment of | 10 | | understanding of effects in adults, and to that | |
| 11 | - | adolescents with gender dysphoria? | 11 | | respect, that will be shared in both both | |
| 12 | 2 | MR. RAMER: Objection to the form. | 12 | | domains, but there are certainly many other | |
| 13 | A | Again, it depends on how one defines what an | 13 | | aspects that are quite different. The use of | |
| 14 | | expert is. There are different forms of | 14 | | puberty blockades is very different. The effects | |
| 15 | | expertise, and and different ways that people | 15 | | of puberty is very different. The changing | |
| 16 | | use to designate that. | 16 | | demographics of the patient population is very | |
| | ~ | Might Dr. Lewis, who runs the Transgender Care | 17 | | different. So I would say that that they | |
| 17 | - | • | | | • • • | |
| 18 | | Center at St. Louis Children's, be a clinical | 18 | | are would require a different analysis. Some | |
| 19 | | expert in the treatment of adolescents with | 19 | | of the information would overlap. Much of it | |
| 20 | | gender dysphoria? | 20 | 0 | would be different. | |
| 21 | | MR. RAMER: Objection to the form. | 21 | Q | When you talk about long-term effects, what | |
| | A | It depends on how you define expertise. I have | 22 | | what is a long-term effect? How long a period | |
| 23 | | more publications in the area than he does. | 23 | | would you need to study the effects? | |
| 24 | Q | You're talking about publications in the area of | 24 | А | Well, I can point to the probably the longest | |
| 25 | 5 | treatment of adolescents with gender dysphoria? | 25 | | available studies that are available that that | |
| | | | | | | |
| | | | | | | |
| | | Page 171 | | | Page 173 | |
| | • | - | _ | | - | |
| | . A | We've already gone over the papers that I have | 1 | | do not include some of the limitations, | |
| 2 | 2 | We've already gone over the papers that I have published in this area, so, again, it depends on | 2 | | do not include some of the limitations, methodologic limitations, for example, would | |
| 3 | 2 | We've already gone over the papers that I have published in this area, so, again, it depends on how one defines expertise and, again, you know, | 2 3 | | do not include some of the limitations, methodologic limitations, for example, would refer to the Dane study with the Swedish total | - |
| 3 | 2 | We've already gone over the papers that I have published in this area, so, again, it depends on how one defines expertise and, again, you know, how one makes that assessment and whether one | 2 3 4 | | do not include some of the limitations, methodologic limitations, for example, would refer to the Dane study with the Swedish total population cohort showing persistence of | |
| 3 | 2 | We've already gone over the papers that I have published in this area, so, again, it depends on how one defines expertise and, again, you know, how one makes that assessment and whether one feels that they are qualified to speak in this | 2 3 | | do not include some of the limitations, methodologic limitations, for example, would refer to the Dane study with the Swedish total population cohort showing persistence of psychological morbidity, elevated rates of | - |
| 3 | 2 5 5 5 | We've already gone over the papers that I have published in this area, so, again, it depends on how one defines expertise and, again, you know, how one makes that assessment and whether one feels that they are qualified to speak in this area. | 2 3 4 | | do not include some of the limitations, methodologic limitations, for example, would refer to the Dane study with the Swedish total population cohort showing persistence of psychological morbidity, elevated rates of completed suicide after experiencing or being | |
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| 2 3 4 5 6 | Q | We've already gone over the papers that I have published in this area, so, again, it depends on how one defines expertise and, again, you know, how one makes that assessment and whether one feels that they are qualified to speak in this area. I was just referring to when you said "this area," you're referring to the area of treatment | 2 3 4 5 6 | | do not include some of the limitations, methodologic limitations, for example, would refer to the Dane study with the Swedish total population cohort showing persistence of psychological morbidity, elevated rates of completed suicide after experiencing or being engaged in medical affirmation, recognizing that that study was not controlled, can't say anything | |
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Page 174 Page 176 1 the average age to desistance was over ten years, 1 unless I have any follow-up from whatever John so I would say that if you're going to have the 2 has. 2 3 MR. RAMER: No, I have no questions for the outcome of, you know, whether one has the 3 witness. 4 4 experience of going through this transition only 5 MR. STRANGIO: All right. Well, Dr. Hruz, to discover later that it didn't solve their 5 6 good to see you. I imagine the court reporter problems, one would at least need to follow it 6 may have some spellings, but I could be wrong. 7 7 out to that end point, again, extrapolating the MR. RAMER: We'd like to review and sign as 8 data that we have in adults to the pediatric 8 9 well. 9 population. MR. STRANGIO: And, Dianne, I think we have 10 Q So if you did have data that followed patients 10 requested it for Monday. 11 for a period of time over ten years, would that 11 (Deposition concluded at 1:41 p.m.) 12 12 be a sufficient long-term study in your view? AND FURTHER THE DEPONENT SAITH NOT. 13 MR. RAMER: Objection to the form. 13 14 Α So you're asking about -- it depends on how the 14 15 study was done. I'm not -- just -- time would 15 PAUL W. HRUZ, M.D., PH.D. not be the sole factor. There would be other 16 16 factors about assessing the reliability of the 17 17 methods that were used in the study, the tools 18 18 that were used in the measurement, so it would 19 19 certainly be one component. 20 20 And I do think that you can get even shorter 21 21 term data depending on the outcome that you're 22 22 23 measuring, but if we're going to make an 23 assessment about the error rate, as we discussed 24 24 25 previously, trying to make a prediction about 25 Page 175 Page 177 STATE OF INDIANA those, we're starting to see a larger number of) 1 1) SS: people that are coming forward with the 2 COUNTY OF MARION 2 experience of desistance that we had not 3 I, Dianne Lockhart, RMR, CRR, a Notary Public in recognized previously. The question out there is 3 4 and for the County of Marion, State of Indiana at 4 how many does that involve. Time of follow-up is 5 large, do hereby certify that PAUL W. HRUZ, M.D., 5 6 critical. The patients that are lost to PH.D., the deponent herein, was by me first duly 6 7 follow-up is critical in that assessment. The 7 sworn to tell the truth, the whole truth, and nothing nature of the study as far as how the patients 8 but the truth in the above-captioned cause. 8 9 were recruited and the tools that were used to 9 That the foregoing deposition was taken on assess the outcomes are necessary as well. 10 behalf of the Plaintiffs via videoconference in 10 So it sounds like this is another example of more 11 0 Manchester, St. Louis County, Missouri, on the 1st 11 12 research needed for longer periods of time; is 12 day of June, 2023, pursuant to the Applicable Rules. that right? 13 That said deposition was taken down in 13 MR. RAMER: Objection to the form. 14 stenograph notes and afterwards reduced to 14 Α So as I said previously, at present the 15 typewriting under my direction, and that the 15 conclusion that the relative risks outweigh the 16 typewritten transcript is a true record of the 16 purported benefits is based upon the currently 17 17 testimony given by said deponent; and thereafter available evidence. As a physician scientist, 18 18 presented to said deponent for their signature. there's a need to gather other relevant 19 That the parties were represented by their 19 information and do more clinical studies. And --20 aforementioned counsel. 20 and that is something that anyone who is a 21 I do further certify that I am a disinterested 21 physician scientist would agree with. 22 22 person in this cause of action; that I am not a 23 MR. STRANGIO: Okay. I think -- waiting to 23 relative or attorney of either party, or otherwise see one thing. Okay, I will go ahead and pass interested in the event of this action, and am not in 24 24 the witness. Thank you, Dr. Hruz, for your time, the employ of the attorneys for either party. 25 25



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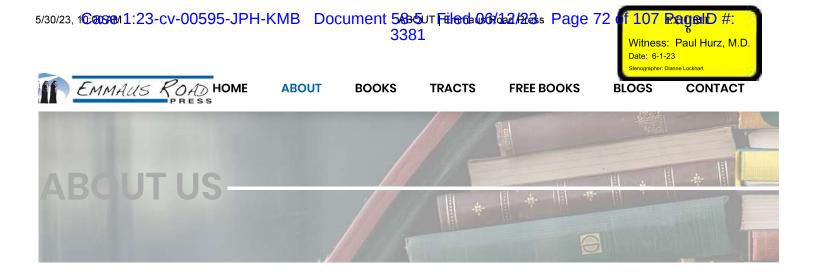
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Our focus is to publish books that reflect the great truths of historic Christianity that is also referred to as Reformed Theology.

After His resurrection, Jesus met two disciples on the road to the village of a Emmaus. Following His conversation with them they said, "Did not our heart burn within us while He talked with us on the road, and while He opened the Scriptures to us?" Luke 24:32

Emmaus Road Press is committed to opening the Scriptures and publishing books that will exalt Christ and cause hearts to burn in devotion and praise to Him. The picture on the right is "The Road To Emmaus," 1877, Robert Zund, 1826-1909.





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EXHIBIT 7 Witness: Paul Hurz, M.D. Date: 6-1-23 Stenographer: Dianne Lockhart

OUR PURPOSE

Our culture finds itself in a moment in which the term "science and technology" has become fraught. Dreams of limitless progress now seem to be giving way to nightmares. Our talk of "tech" is split between visions of boundless transformation and dread that we will become manipulated, oppressed, obsolete, addicted, or simply miserable. "Science" seems to be falling from its lofty state, becoming mixed up, like so much else, in our political squabbles. We treat it as a referee who is unimpeachable when he favors my team, rigging the game when he favors yours.

The purpose of *The New Atlantis* is to offer clarity and guidance at a moment when we seem to be losing confidence in one of the pillars of modern civilization. It is our hope to help us all — as citizens, scientists, policymakers, and human beings — to deal more wisely and more creatively with both the burdens and the blessings of modern science and technology.

Yet if our moment is a difficult one, there is also something telling in our sense of shock at it — as if we were experiencing a sudden departure from the arc of history. And so we must recognize that it is the rule rather than the exception in human affairs that grandiose expectations will be frustrated and grand projects not turn out as their planners intended.

The ideal of science as an oracle in political disputes has placed a weight upon it that it cannot bear. The dream that scientific progress could, in effect, solve the human condition has warped our aspirations, making perennial problems seem like novel catastrophes. New technologies that promised disruption have delivered only too well. Dystopian dread is the shadow of utopian dreams. The hope of *The New Atlantis* is to help steer away from both — and instead toward a culture in which science and technology work *for*, not *on*, human beings.

OUR AIM

A culture in which science and technology work for human beings is one that:

- Understands the core anxiety about tech as the threat of *dehumanization*.
- Fosters a richer discourse about science and technology, one that is not limited to categories like autonomy, privacy, rights, corporate misbehavior, and disparate impact, but that also addresses perennial yet pressing concerns about dignity, degradation, the obligations between generations, the nature of the good life, and meaning and purpose.
- Places wiser limits in both our values and our policies on dehumanizing technologies, research practices, and applications of science.
- Resists the temptation to use medicine and biotechnology to conquer human nature or to regard our bodies as raw material, and instead sees their purpose as caring for the sick while protecting the dignity of every person.
- Renews its understanding of science viewing it not as a vehicle for putting humanity in its place, or for revealing what we cherish to be illusory, but rather as an expression of human curiosity, endeavor, and excellence.

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- Moves beyond the misguided dreams of either making politics subservient to science or of ridding experts from politics once and for all, and instead creates new institutions, practices, and ways of thinking in which democratic deliberation and scientific expertise each inform, guide, and place sound limits upon the other.
- Revives confidence in its ability to create new technologies and policies that ameliorate suffering, increase prosperity, strengthen family and communal bonds, counter threats to and from the environment, and open new possibilities for understanding and exploring the universe.

OUR NAME

New Atlantis was the title Francis Bacon selected for his speculative story of a society living with the benefits and challenges of advanced science and technology. Bacon, a founder and champion of modern science, sought not only to highlight the potential of technology to improve human life, but also to foresee some of the social, moral, and political difficulties that confront a society shaped by the great scientific enterprise.

Published in 1627, his book offers no obvious answers; perhaps it seduces more than it warns. But the tale also hints at some of the dilemmas that arise with the ability to remake and reconfigure the natural world: governing science, so that it might flourish freely without destroying or dehumanizing us, and understanding the effect of technology on human life, human aspiration, and the human good.

To a great extent, we live in the world Bacon imagined, and now we must find a way to live well with both its burdens and its blessings. This very challenge, which now confronts our own society most forcefully, is the focus of this journal.

WHO WE ARE

We are not an academic journal but a public journal of ideas. We aim to provide an alternative to the models of experts and academics whose writing is aimed mainly at each other, and of short-form or "explainer" journalism that often fails to engage the deeper questions at stake.

Instead, we publish long-form essays, articles, and reports that — we hope — are written with insight, accessibility, literary virtuosity, and factual reliability for lay audiences and scholars alike. Our editors and authors are scientists, medical doctors, engineers, policy analysts, academics, writers, and scholars.

The New Atlantis is a nonpartisan publication. Indeed, the subjects addressed in our pages often cut across existing political lines, forcing liberals and conservatives, progressives and libertarians, to revisit their guiding principles.

We are published by a nonprofit organization that is supported wholly by private foundations, individual donors, and revenue earned from subscriptions and licensing. We receive no funding from business or government sources. (We have allowed exceptions to this policy by accepting federal funds under the coronavirus relief laws of 2020-21.)

OUR DESIGN

The whimsical line drawings used throughout our site derive from "New Atlantis," an illustration of Francis Bacon's story that first appeared in the 1964 book *The Scientist*, part of the Time-Life Books series. The artist is Lowell Hess, an illustrator for *Collier's*, *Boys' Life*, and many children's books under the Golden Books series whose works are collected in *The Art of Lowell Hess* (2011). The image, used with the permission of Time-Life Books and the Hess estate, appears at the top of this page.

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The Journal of Clinical Endocrinology & Metabolism, 2021, Vol. 106, No. 2, 305–308 doi:10.1210/clinem/dgaa816 Policy Perspective

Policy Perspective



e: 6-1-23 grapher: Dianne Lockhart

Proper Care of Transgender and Gender Diverse Persons in the Setting of Proposed Discrimination: A Policy Perspective*

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*Co-sponsoring organization: Pediatric Endocrine Society.

Abbreviations: ACA, Affordable Care Act; HHS, Health and Human Services; LGBTQ, lesbian, gay, bisexual, transgender, queer; TGD, transgender and gender diverse

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Abstract

Transgender and gender diverse (TGD) individuals face significant barriers to accessing health care. Recent introductions of regulatory policies at state and federal levels raise concerns over the politicization of gender-affirming health care, the risks of further restricting access to quality care, and the potential criminalization of healthcare professionals who care for TGD patients. The Endocrine Society and the Pediatric Endocrine Society have published several news articles and comments in the last couple of years supporting safe and effective gender-affirming interventions as outlined in the 2017 Endocrine Society's Clinical Practice Guidelines. The Endocrine Society Position Statement on Transgender Health also acknowledges the rapid expansion in understanding the biological underpinning of gender identity and the need for increased funding to help close gaps in knowledge about the optimal care of TGD individuals. This Policy Perspective affirms these principles in the context of pending and future legislation attempting to discriminate

againstTGD patients while also stressing the need for science and health care experts to inform health policies.

Key Words: transgender, legislation, policy, discrimination

Over this past year, there have been numerous state legislative and federal regulatory policies introduced regarding the care of transgender and gender diverse (TGD) individuals in the United States. These proposed policies appear to have been developed without the involvement of experienced medical providers and without the consideration of evidence-based standard of care clinical practice guidelines on the care for TGD individuals, including those published by the Endocrine Society [1, 2]. Not only do these policies ignore the science, but if enacted, they would restrict access to health care for TGD people, and in some cases, would criminalize their medical providers.

TGD individuals have a gender identity that is different from the sex recorded at birth. In 2016, an estimated 0.6% (or 1.4 million) adults reported that they were transgender or gender diverse in the United States. [3]. According to a 2017 survey of US high school students, almost 2% reported that they were transgender [4]. TGD individuals comprise a vulnerable group in our society that already faces significant barriers in accessing equitable health care despite the current protections that exist surrounding a person's gender identity [5-8].

At the federal level, the US Department of Health and Human Services (HHS) announced on June 12, 2020, that it had finalized revisions to Section 1557 of the Affordable Care Act (ACA), which would involve a rollback of health care nondiscrimination rules on the basis of sex, gender identity, and sex stereotyping [8]. These revisions would eliminate protections for TGD individuals who experience discrimination in health care settings, restricting access to gender-affirming care and to general medical care. The Endocrine Society opposed the proposed rule and submitted comments to the US Department of HHS urging it to withdraw it, stressing that removing these nondiscrimination protections would have made it easier for providers to deny care to TGD persons as well as discourage patients from seeking routine and gender-affirming care or reporting discrimination [9]. On August 17, 2020, the day before the revisions to Section 1557 of the ACA were to take effect, a federal judge temporarily blocked them pending future court proceedings. The decision was made following the US Supreme Court ruling on June 15, 2020, which found that lesbian, gay, bisexual, transgender, and queer (LGBTQ) individuals cannot be discriminated against in the workplace on the basis of sex [10, 11]. The ruling was made after consideration of 3 cases, including the case of Harris *v. Equal Employment Opportunity Commission* in which the Endocrine Society provided scientific background and context regarding transgender health with a "friend of the court" brief [12]. In retrospect, it has been noted that the US Department of HHS announced its planned revisions to Section 1557 of the ACA just 3 days before the expected US Supreme Court ruling, and this timing raised concerns that deliberate attempts were made to remove the protections for LGBTQ individuals in advance of the anticipated ruling [11].

At the state level, proposed legislation with implications for discrimination of TGD individuals in health care settings first appeared and proliferated in the wake of a heavily publicized custody case of a transgender child in Texas in October 2019. Misinformation regarding the care of TGD youth spread, which instigated proposed legislation to prohibit medical interventions in these patients. This prompted the Endocrine Society and the Pediatric Endocrine Society to release statements affirming our support of the Endocrine Society's Clinical Practice Guidelines on the Endocrine Treatment for Gender-Dysphoric/ Gender-Incongruent Persons [1, 13]. Unfortunately, since that time, more than 2 dozen bills have been introduced in 16 US states (Alabama, Colorado, Florida, Idaho, Illinois, Iowa, Kentucky, Mississippi, Missouri, Ohio, Oklahoma, South Carolina, South Dakota, Tennessee, Utah, and West Virginia), many with the same or very similar titles, wording, and objectives [14]. Although most of these bills have failed to advance in state legislatures, a few remain under consideration. State legislators promoting these bills have spread erroneous and misleading information regarding TGD care of minors. For example, the following was presented as 1 of the 10 ballots of the 2020 Texas Republican Party primary election: "Texas should ban chemical castration, puberty blockers, cross-sex hormones and genital mutilation surgery on all minor children for transition purposes, given that Texas children as young as three (3) are being transitioned from their biological sex to the opposite sex." Even though "chemical castration" and "genital mutilation" are not part of gender-affirming care for minors, such wording serves to alarm the general public, and 94.57% of the electors supported the measure [15]. This type of misinformation has led to an increase in threats to clinics and providers of TGD minors.

These state bills aim to make it unlawful to provide medical care to TGD minors, including the provision of gonadotropin-releasing hormone agonist therapy for pubertal suppression and gender-affirming hormonal therapy. Pubertal suppression, which is fully reversible, is offered to adolescents who meet diagnostic and treatment criteria, and are requesting care, for gender dysphoria/gender incongruence after they exhibit physical changes of puberty (Tanner stages G2/B2) [1]. This intervention allows for expansion of the diagnostic phase and more time for adolescents to explore options and live in the experienced gender before making a decision to proceed with gender-affirming hormone therapy [1]. Gender-affirming hormone therapy is partially irreversible and is an option for adolescents who request treatment after a multidisciplinary team of medical and mental health professionals confirms the persistence of gender dysphoria/gender incongruence and sufficient mental capacity to give informed consent [1]. Genderaffirming hormone therapy allows for the induction of puberty and phenotypic changes that hopefully align more with one's gender identity [1].

Eliminating these aspects of health care will detrimentally affect TGD patients who face a disproportionately high rate of suicide, yet gender-affirming care is known to significantly improve mental health outcomes [1, 2, 4, 16-21]. Furthermore, the bills would criminalize health care professionals who provide this care with felony charges, revocation of their professional medical licenses, monetary fines, and imprisonment. If passed, the legislation would greatly affect members of the Endocrine Society and the Pediatric Endocrine Society who provide gender-affirming care, particularly those who provide care to minors following the Endocrine Society's Clinical Practice Guidelines for Gender-Dysphoric/Gender-Incongruent Persons and the World Professional Association for Transgender Health's Standards of Care for the Health of Transsexual, Transgender, and Gender-Nonconforming People [1, 2]. For these reasons, we emphasize the need to involve expert medical professionals or consideration of standard of care evidence-based clinical practice guidelines when developing legislation impacting the health care and access of TGD individuals. The Endocrine Society and the Pediatric Endocrine Society firmly believe that health care treatment should be evidencebased and doctor-patient determined without politicization that is not based on science.

The Endocrine Society and Pediatric Endocrine Society remain hopeful that pending and future legislation attempting to discriminate against TGD patients will not be enacted. Yet, we also recognize the long road ahead in truly attaining equitable health care for all people. We affirm the Endocrine Society Position Statement on Transgender Health, which includes the following: (1) there is a durable biological underpinning to gender identity that should be considered in policy determinations; (2) medical intervention for transgender individuals (including both hormone therapy and medically indicated surgery) is effective, relatively safe (when appropriately monitored), and has been established as the standard of care, and federal and private insurers should cover such interventions as prescribed by a physician as well as the appropriate medical screenings that are recommended for all body tissues that a person may have; and (3) increased funding for national research programs is needed to close the gaps in knowledge regarding transgender medical care and should be made a priority [22].

In summary, our concern regarding the attempted politicization of the gender-affirming care of TGD individuals persists. At the same time, the Endocrine Society and the Pediatric Endocrine Society remain dedicated to providing necessary gender-affirming medical care to TGD individuals, to advocating for increased funding for research to close the gaps in knowledge regarding the medical care of TGD individuals, and to sharing important knowledge learned to inform policy. We remain steadfast in our belief that patient health management decisions should be evidence-based and doctor-patient determined, and health policy should be based in science with health care experts at the table as contributors.

Acknowledgments

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Disclosure Summary: J.D.S.'s spouse is employed by Parexel. V.T. is president of the World Association for Transgender Health from 2018 to 2020 and a board member of American Association of Clinical Endocrinology from 2014-2020. The other authors have no conflicts of interest.

Data Availability: Data sharing is not applicable to this article as no datasets were generated or analyzed during the current study.

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Short title (for subsequent references):

Kaczor, Ethics of Abortion, 11.

Two authors

Edmund Pellegrino and David Thomasma, *The Virtues in Medical Practice* (New York: Oxford University Press, 1993), 31.

<u>Short title</u>:

Pellegrino and Thomasma, Virtues in Medical Practice, 31.

Three authors

Maxine Papadakis, Stephen J. McPhee, and Michael W. Rabow, *Current Medical Diagnosis and Treatment 2013*, 51st ed. (New York: McGraw-Hill Education, 2013).

<u>Short title</u>:

Papadakis et al., Current Medical Diagnosis, 23.

More than three authors

William S. Klug et al., *Essentials of Genetics*, 8th ed. (San Francisco: Benjamin Cummings, 2012), 465.

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Klug et al., Essentials of Genetics, 465.

Edited and Multi-volume Books

Edited book

Edward Furton, ed., *Catholic Health Care Ethics: A Manual for Practitioners*, 2nd ed. (Philadelphia: National Catholic Bioethics Center, 2009), 316.

<u>Short title</u>:

Furton, Catholic Health Care Ethics, 316.

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Chapter in an edited book

Francis Martin, "Marriage in the New Testament Period," in *Christian Marriage: A Historical Study*, ed. Glenn W. Olsen (New York: Crossroad, 2001), 56-65.

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Martin, "Marriage in the New Testament Period," 58.

Book in a multivolume work

Germain Grisez, *Way of the Lord Jesus*, vol. 1, *Christian Moral Principles* (Quincy, IL: Franciscan Press, 1997), 84.

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<u>Short title</u>:

Grisez, Christian Moral Principles, 84.

Second or later edition

Gilbert Meilaender, *Bioethics: A Primer for Christians*, 2nd ed. (Grand Rapids, MI: Eerdmans, 2005), 76.

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Translated work

Chantal Delsol, *The Unlearned Lessons of the Twentieth Century: An Essay on Late Modernity*, trans. Robin Dick (Wilmington, DE: ISI Books, 2006), 11-34.

<u>Short title</u>: Delsol, *Unlearned Lessons*, 24.

Church document, Vatican edition

John Paul II, *Evangelium vitae* (March 25, 1995), n. 62.

<u>Short title</u>:

John Paul II, *Evangelium vitae*, n. 62

Can often be cited in the text.

Church document, Pauline edition

John Paul II, *Evangelium vitae* (March 25, 1995), (Boston: Daughters of St. Paul, 1955), n. 62. [Give the date of the document in parentheses, with the paragraph number following.]

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Pius XII, "Christian Norms of Morality" (September 29, 1949), in *The Human Body: Papal Teachings*, ed. Monks of Solesmes (Boston: St. Paul, 1960), 117.

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Periodicals

Journal article

Steven A. Long, "Engaging Thomist Interlocutors," Nova et Vetera 9.2 (Spring 2011): 267–295.

[The volume and issue numbers appear before the date; they are separated by a period but no space. A colon precedes the page number.]

<u>Short title</u>:

Long, "Engaging Thomist Interlocutors," 267.

Martin M. Monti et al., "Willful Modulation of Brain Activity in Disorders of Consciousness," *New England Journal of Medicine* 362.7 (February 18, 2010): 579–589, doi: 10.1056/NEJMoa0905370.

[Journal titles are cited in full, not abbreviated.]

<u>Short title</u>:

Monti et al., "Willful Modulation of Brain Activity," 579.

Newspaper or magazine article

Leon R. Kass, "The Pursuit of Biohappiness," *Washington Post*, October 16, 2003, A25.

<u>Short title</u>:

Kass, "Pursuit of Biohappiness," A25.

Online article

Shirley S. Wang, "The Tricky Chemistry of Attraction," *Wall Street Journal*, May 9, 2011, http://online.wsj.com/article/SB10001424052748704681904576313243579677316.html.

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Brief Statement on Transgenderism

EXHIBIT 11 Witness: Paul Hurz, M.D

Date: 6-1-23

The National Catholic Bioethics Center

Abstract. The claim that it is possible to change one's sex, or that sexual identity is fluid, contradicts scientific evidence, reason, the nature of the human person, and key tenets of the Catholic faith. A small number of persons claiming to be "transgender" mistakenly believe that their true self and sexual identity contradict the sex of their bodies. They frequently experience profound suffering due to intense psychological distress and due to the challenges of forming a healthy self-identity and basic human relationships, including friendships and marriage. Hormonal and surgical interventions, and other behaviors and practices that attempt to validate mistaken beliefs to relieve distress and suffering, are inappropriate responses to their condition. Persons claiming to be transgender must be accompanied on their difficult journey with true charity, and should be offered ethical, effective therapies based on sound anthropology and scientific evidence. The National Catholic Bioethics Center offers considerations to facilitate appropriate efforts to accompany and to help such persons. *National Catholic Bioethics Quarterly* 16.4 (Winter 2016): 599–603.

The notion of being able to change one's sex, most radically through surgical intervention, has increasingly become a part of public awareness and social discourse. The boldness of the gender ideology movement has now brought it to the forefront.

Resolutions and policies of medical associations and legislative and regulatory actions promote so-called gender affirmation and gender transitioning, even in prepubescent children, and mandate the compliance of schools, health care providers,

This essay is the result of an initial analysis by the ethicists of The National Catholic Bioethics Center, drafted in response to numerous requests from individual Catholics and Church leaders. As a statement signed by the ethicists of the Center, it represents the official position of the NCBC.

health care payers, social services, and others. Such regulations are coercive and based on a false understanding of human identity. Gender transitioning insists on affirming a false identity and, in many cases, mutilating the body in support of that falsehood.

Human Anthropology and Gender

Gender transitioning is the attempted exchange of one's unambiguous, clearly defined sexual identity as male or female for the other sex: a male attempting to alter himself to become female, or a female attempting to alter herself to become male. For the purposes of the present statement, it should be stressed that we are not addressing the complicated cases where various congenital disorders of sexual development result in uncertainty regarding a person's biological sex, for example, situations involving ambiguous genitalia. The person seeking to transition, as we are using the term, essentially believes that he or she is in the "wrong body": a male trapped in a female body or vice versa. The experience of anxiety or unhappiness associated with this conviction is referred to as gender dysphoria.

Gender transitioning, involving behavioral, hormonal, or surgical treatments, or a combination of these, is coming to be broadly accepted as a form of "therapy." The concept of gender transitioning, however, stands in radical opposition to a proper understanding of the nature of the human person. It presupposes that there is a "self" that is separate from the body, which happens to find itself in a body and which might therefore be in the wrong body. Yet the human person is a full body–soul unity, not a "ghost in the machine" or a spirit inhabiting the body. A particular person does not merely *have* a body: he or she *is* that body. In the words of Pope St. John Paul II, the "human body expresses the person."

In short, a person's sex is manifested by the body in accordance with how the person has been created, and so it cannot be in conflict with any truer or deeper sexual identity contrary to that bodily sex. This is a foundational anthropological point that no medical association or political ideology can overturn. The psychological experience of a disconnect with one's bodily sex is not to be minimized; it calls for appropriate psychotherapy, but it can in no way be reflective of an "incorrect" sex.

Given this understanding of what it means to be a human person, a body–soul unity whose innate sexual identity is reflected in the person's biology, it should be clear that no surgical, hormonal, or other intervention directed toward the body is capable of altering that innate sexual identity. Taking up or engaging in behavioral changes, including mannerisms, social cues, clothing, or modes of speaking that social mores ascribe to the opposite sex, does not alter the innate sexual identity of the embodied spirit, which is the human person. Hormonal interventions to block the body's sex-specific hormones or provide the sex-specific hormones of the opposite sex likewise alter nothing of a person's innate sexual identity. The use of pubertyblocking hormones in children with gender dysphoria is particularly dangerous, since this intervention radically disrupts the normal sequence of physical and psychological development that occurs during adolescence. One cannot simply "reverse" what has been done if the individual should change his or her mind. So-called sex reassignment surgeries of any kind, designed to give the body an appearance with more of the culturally expected qualities of the opposite sex, also cannot modify the true sexual identity of the person, who was created male or female. Attempts at gender transitioning can, in fact, have disastrous effects in the life of a person who continues to struggle to better understand and accept his or her own true value and full identity. Studies show that the surgical interventions do not ultimately resolve feelings of anxiety and dysphoria and appear to lead to a significant increase in attempted or completed suicides.¹

Ethical Implications

The anthropological reality—that a person's innate sexual identity cannot be changed—has moral consequences. Human persons act against their own good when they directly intend what is contrary to their own nature, purpose, and identity and thereby impair their flourishing. An act that is incapable of being ordered to the good of the person will not bring about individual flourishing: under no circumstances can it be consonant with the person's genuine fulfillment. Directly intending to transition one's given bodily sex into a "new" one (even though this may be perceived as the "real" and "true" one) means intending to alter what is unalterable, to establish a false identity in place of one's true identity, and so to deny and contradict one's own authentic human existence as a male or female body—soul unity. Such an action cannot be consonant with the good of the whole person. While many circumstances and influences may significantly mitigate personal culpability, gender transitioning raises significant moral concerns and always involves actions that are objectively directed against one's own good.²

The fact that gender transitioning via behavioral, hormonal, or surgical interventions does not ultimately contribute to human flourishing has various moral repercussions in the practical order. For example, the following kinds of acts are harmful to the good of the person and may never be legitimately carried out, approved, or promoted: sex reassignment surgeries of any kind, which amount to nontherapeutic mutilations; the administration of cross-sex hormones as a means of gender transitioning in themselves, or in preparation for sex reassignment surgery; the administration of puberty-blocking hormones to children as a means of transitioning because of gender dysphoria or other sexual identity issues; and the adoption of behaviors, clothing, mannerisms, names, or pronouns typical of the opposite sex

^{1.} Lawrence S. Mayer and Paul McHugh, "Sexuality and Gender: Findings from the Biological, Psychological, and Social Sciences," *New Atlantis* 50.3 (Fall 2016): 67.

^{2.} Gender "transitioning," as used here, excludes interventions aimed at correcting congenital disorders of sexual development or reinforcing the best understood biological sex of a person with ambiguous genitalia or other ambiguous sex characteristics or behaviors. These may be and often are morally licit. The term also excludes any actions by which a person simulates characteristics of the opposite sex but without the intention of "becoming" that sex, such as cross-dressing, acting, imitating, or otherwise impersonating the opposite sex while still understanding and accepting one's actual innate sexual identity.

with claims to be (and therefore demands to be treated as) a person of the opposite sex. Obviously, the most grave of these actions is mutilating surgery.

Catholic Health Care

In light of the scientific evidence showing that "transitioning" has no demonstrated long-term therapeutic benefit, and in light of Catholic teaching about the nature of the human person, no Catholic health care organization should establish policies that positively affirm the choice of any behavioral, hormonal, or surgical gender transitioning of patients, personnel, or other persons served by the organization. In addition, no Catholic health care organization should require its personnel to carry out, promote, refer for, or otherwise cooperate formally in procedures involved in gender transitioning, especially surgical or hormonal interventions; require the use of pronouns or sex-specific identifiers that are explicitly contrary to a person's biological sex; or otherwise require the affirmation of a false sexual identity for any persons who are or who are planning on transitioning.

The challenge of addressing this new phenomenon of transgenderism extends, both in charity and in justice, to the rest of the Church's pastoral ministries. Clearly, promoting the deceptive view that mutilation is a treatment for gender identity disorder is an injustice to the individuals involved and creates scandal for the larger community in the technical sense of leading others to sin. A greater challenge for agencies sponsored by the Church is to address the holistic needs of transgender persons who are seeking, not direct support for sex reassignment, but pastoral care, other services, and full participation in the life of the Church.

Catholic Educational Institutions

Educational ministries of the Church are under increasing external pressure to treat students consistent with their self-selected gender identity, in education records, forms of speech (use of pronouns and names consistent with the self-selected gender), participation in school activities and sports, and access to bathrooms and locker rooms.

Many schools are parish sponsored, and the pastor is "to have particular care for the Catholic education of children and youth. He is to make every effort, with the collaboration of the Christian faithful, so that the message of the gospel comes also to those who have ceased the practice of their religion or do not profess the true faith."³ All religious education is subject to the authority of the Church. Clearly, cooperating in the "transitioning" of youth is inconsistent with these obligations.

The moral issue for Catholic schools is that they cannot participate in or promote the denial, or perceived denial, of the biological sex with which a child has been endowed by the Creator. Altering the name on school records, using "he" for a student born female or "she" for a student born male, and permitting a student to wear the uniform of the opposite sex do not truly serve the good of the student and his or her flourishing. Privacy needs can be met without allowing students access to the bathrooms or locker rooms reserved to those of the opposite sex.

^{3.} Code of Canon Law, can. 528 §1, in *Code of Canon Law: Latin–English Edition* (Washington, DC: Canon Law Society of America, 1999).

Employment policies of a Catholic educational institution should also exemplify the mission of a ministry of the Catholic Church. Its teachers are to be outstanding in correct doctrine and integrity of life.⁴ There is a special obligation on those responsible for religious instruction and on the diocesan bishop for oversight.⁵ Catholic laity assist in carrying out the ministries of the Church, but they are to "live according to this doctrine, announce it themselves, defend it if necessary, and take their part in exercising the apostolate."⁶

Finally, it is necessary to define the roles and obligations of employees so as to exemplify and foster the mission of the ministry and to challenge violations of the religious liberty of the sponsors when these role definitions are not respected. No Catholic entity should submit to an immoral government mandate.⁷

The Need for Accompaniment

It is clear that those with gender dysphoria suffer greatly and must be treated with great compassion and sympathy. However, the attempt must be made to dissuade them from actions that ultimately will not contribute to their individual flourishing and may cause irreversible harm. We must always be with them in their difficulties and help them make truly therapeutic choices. Even when they have engaged in actions that have done irremediable harm, we must continue to accompany them and show them the love and compassion of Christ.

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6. Can. 229 §1.

^{4.} Can. 803 §2.

^{5.} Can. 804 §2.

^{7.} Similar issues exist for Catholic higher education, which should exercise every right of refusal under state and federal Religious Freedom Restoration Acts, as well as the exemption from Title IX of the Education Amendments of 1972. Institutions sponsored by religious organizations are exempt from sex discrimination provisions if their application would be inconsistent with the religious tenets of the organization: 20 USC 1681(a)(3).

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The Use of Cross-Sex Steroids in the Treatment of Gender Dysphoria

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Abstract. Current clinical guidelines for the treatment of individuals who experience gender dysphoria include the administration of testosterone to women who desire to appear as men and estrogen to men who desire to appear as women. Despite the rapid and widespread adoption of this practice, strikingly little scientific evidence supports this treatment approach as a safe and effective medical intervention to prevent associated depression and suicide. Although low-quality, short-term studies have demonstrated a reduction of dysphoria, emerging evidence reveals significant bodily harm from this practice and a lack of long-term benefit in preventing depression and suicide. From an ethical perspective, this practice distorts a proper view of human nature and violates bodily integrity by directly inducing sterility. The use of exogenous cross-sex hormones reinforces rather than alleviates underlying psychiatric dysfunction while significantly increasing the risk of other medical morbidities. Despite the valid goal of alleviating suffering, this practice cannot be justified by the use of the principles of totality or double effect. National Catholic Bioethics Quarterly 17.4 (Winter 2017): 661–671.

In a culture that increasingly asserts that truth is relative, the world appears to be in the midst of a "gender revolution."¹ This includes a major ideological shift in attitudes toward what it even means to be a man or a woman. In contrast to long-standing knowledge and acceptance of sexual dimorphism—that is, the presence of only two

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^{1.} Katie Couric, "Gender Revolution: A Journey with Katie Couric," National Geographic, http://channel.nationalgeographic.com/.

sexes—defined in relation to the biological process of reproduction, attempts are now being made to present sexuality along a continuum of forms.² In stark contrast to Pope St. John Paul II's teaching on the theology of the body, which illuminates a teleological complementarity between male and female forms and an inseparable unity of body, mind, and soul, it is now openly argued that the mind alone can and in some circumstances should determine, or at least influence, reality in medical practice.³ The dualistic rejection of an intrinsic connection between mind and body and the attempt to redefine fundamental aspects of human biology have given birth to a host of societal problems of unprecedented complexity. Discussions of gender identity are among the most contentious. These include heated public debates and lawsuits related to government hiring, bathroom access rights, and proper pronoun usage.⁴

In this context, the recognition, acceptance, and encouragement of individuals who experience discordance between their gender identity and biological sex have grown at an astounding rate among physicians and in society in general.⁵ It is unknown whether this increased awareness has contributed to the concomitant increase in the reported prevalence of transgender people, with some recent estimates as high as 0.4 percent of the US population.⁶ The medical profession, in possessing a technical ability to chemically and surgically manipulate the appearance of the human body, has been drawn into the ideological battlefield by offering a variety of interventions aimed at alleviating the significant distress that many transgender patients experience as a result of the incongruity between their minds and bodies. The practice of administering cross-sex hormones—that is, testosterone to women who identify as men and estrogen to men who identify as women—as a treatment for gender dysphoria is widely endorsed by several medical societies, including the American Psychiatric Association, the American Academy of Pediatrics, and the Endocrine Society.⁷

^{2.} Helen Lewis, "The Battle over Gender: What Makes You a Man or a Woman, Anyway?," *New Statesman*, September 13, 2013, https://www.newstatesman.com/; Claire Ainsworth, "Sex Redefined," *Nature* 518.7539 (February 19, 2015): 288–291; and Amanda Montañez, "Beyond XX and XY," *Scientific American* 317.3 (September 2017): 50–51, doi: 10.1038/scientificamerican0917-50.

^{3.} Hugh Marshall McHugh and Simon Thomas Walker, "'Personal Knowledge' in Medicine and the Epistemic Shortcomings of Scientism," *Journal of Bioethical Inquiry* 12.4 (December 2015): 577–585, doi: 10.1007/s11673-015-9661-5.

^{4. &}quot;Recent EEOC Litigation regarding Title VII and LGBT-Related Discrimination," fact sheet, US Equal Employment Opportunity Commission, updated July 8, 2016, https://www.eeoc.gov/.

^{5.} Jack L. Turban and Diane Ehrensaft, "Gender Identity in Youth: Treatment Paradigms and Controversies," *Journal of Child Psychology and Psychiatry*, e-pub October 26, 2017, doi: 10.1111/jcpp.12833.

^{6.} Esther L. Meerwijk and Jae M. Sevelius, "Transgender Population Size in the United States: A Meta-Regression of Population-Based Probability Samples," *American Journal of Public Health* 107.2 (February 2017): 216, doi: 10.2105/AJPH.2016.303578a.

^{7.} William Byne et al., "Report of the American Psychiatric Association Task Force on Treatment of Gender Identity Disorder," *Archives of Sexual Behavior* 41.4 (August 2012): 759–796, doi: 10.1007/s10508-012-9975-x; American Academy of Pediatrics, "Office-Based

Regardless of one's religious, political, or ideological beliefs, it is easy to see that many transgender individuals experience real suffering, as evidenced by high rates of depression, anxiety, and substance abuse among them.⁸ By some estimates, half of all patients with gender dysphoria have considered suicide, and nearly a third have attempted to act on these thoughts.⁹ Transgender individuals have long endured various forms of prejudice, misunderstanding, mistreatment, and marginalization.¹⁰ Without question, these people need help. Catholic physicians and health care systems thus have a duty to serve this extremely vulnerable population.¹¹ The central questions are whether the currently offered intervention is truly beneficial and whether the potential and known harms of cross-sex hormone administration are justified. Careful consideration and proper application of the principles of totality and double effect clearly demonstrate that, despite the rapid and widespread expansion of cross-sex steroid use in patients with gender dysphoria, this practice violates fundamental principles of biomedical ethics and cannot be endorsed as a means to alleviate suffering in affected patients.

Gender ideology

Although knowledge of people who believe they were "born into the wrong body" has existed for decades,¹² until recently, this condition was generally recognized as a psychological disorder. This is reflected in the listing of "gender identity disorder" in the fourth edition of the *Diagnostic and Statistical Manual of Mental Disorders* used by psychiatrists to classify psychological disease.¹³ Accordingly, understanding and correcting underlying psychosocial disturbances were the primary

9. Noah Adams, Maaya Hitomi, and Cherie Moody, "Varied Reports of Adult Transgender Suicidality: Synthesizing and Describing the Peer-Reviewed and Gray Literature," *Transgender Health* 2.1 (April 2017): 60–75, doi: 10.1089/trgh.2016.0036.

10. Jaclyn M. White Hughto, Sari L. Reisner, and John E. Pachankis, "Transgender Stigma and Health: A Critical Review of Stigma Determinants, Mechanisms, and Interventions," *Social Science and Medicine* 147 (December 2015): 222–231, doi: 10.1016/j .socscimed.2015.11.010.

11. US Conference of Catholic Bishops, *Ethical and Religious Directives for Catholic Health Care Services*, 5th ed. (Washington, DC: USCCB, 2009), dir. 3.

12. Jordan D. Frey et al., "A Historical Review of Gender-Affirming Medicine: Focus on Genital Reconstructive Surgery," *Journal of Sexual Medicine* 14.8 (August 2017): 991–1002, doi: 10.1016/j.jsxm.2017.06.007.

13. American Psychiatric Association, *Diagnostic and Statistical Manual of Mental Disorders*, 4th ed. text revision (Washington, DC: American Psychiatric Publishing, 2000).

Care for Lesbian, Gay, Bisexual, Transgender, and Questioning Youth," *Pediatrics* 132.1 (July 2013): 198–203, doi: 10.1542/peds.2013-1282; and Wylie C. Hembree et al., "Endocrine Treatment of Gender-Dysphoric/Gender-Incongruent Persons: An Endocrine Society Clinical Practice Guideline," *Journal of Clinical Endocrinology and Metabolism* 102.11 (November 2017): 3869–3903, doi: 10.1210/jc.2017-01658.

^{8.} Sari L. Reisner et al., "Mental Health of Transgender Youth in Care at an Adolescent Urban Community Health Center: A Matched Retrospective Cohort Study," *Journal* of Adolescent Health 56.3 (March 2015): 274–279, doi: 10.1016/j.jadohealth.2014.10.264.

goals of treatment. With the publication of the fifth edition of this manual (*DSM-5*) in 2013, the diagnosis of "gender identity disorder" transitioned to "gender dysphoria," with the assertion that gender–sex discordance is a normal manifestation of human diversity.¹⁴ Treatment aims accordingly shifted to the patient's level of "dis-ease," or negative feelings, about the appearance of his or her body. Turning the understanding of the relationship between wellness and disease on its head, the mind is now considered healthy and the body diseased. In this light, the simplest solution to the problem is to alter the body to conform to mental belief.

Considering the purported merits of reordering health and disease with respect to human sexuality, there is a notable paucity of objective scientific evidence to support the diagnosis change that occurred in *DSM-5*.¹⁵ Ideology reflecting cultural shifts in sexual mores, not science, was the primary influence on this major diagnostic revision.¹⁶ Even the most vocal advocates of the current treatment paradigm readily acknowledge that the etiology of gender discordance remains largely unknown.¹⁷ According to the incomplete and largely methodologically flawed gender-science literature, the development of gender dysphoria appears to be multifactorial, with genetic, hormonal, and environmental mediators.¹⁸ Consequently, it is difficult to assert from a purely empirical perspective that a single approach centered on cross-sex steroid administration is the best means to alleviate human suffering from gender dysphoria.

Sex Steroids in Normal Human Physiology

Assessment of the ethics of cross-sex steroid administration to individuals with gender dysphoria requires an understanding of the nature and biological function of these hormones. Steroid hormones comprise a family of structurally related compounds with a common cholesterol backbone. These hormones are produced in male and female gonads and in the adrenal glands. Upon synthesis and secretion, these compounds circulate in the bloodstream and enter cells, where they bind to specific receptors that carry the hormones to the cell nucleus. There, the hormone–receptor complex binds to DNA at multiple targeted locations to turn on and off specific genes

^{14.} American Psychiatric Association, *Diagnostic and Statistical Manual of Mental Disorders*, 5th ed. (Arlington, VA: American Psychiatric Association, 2013).

^{15.} Jack Drescher, Peggy T. Cohen-Kettenis, and Geoffrey M. Reed, "Gender Incongruence of Childhood in the ICD-11: Controversies, Proposal, and Rationale," *Lancet* 3.3 (March 2016): 297–304, doi: 10.1016/S2215-0366(15)00586-6.

^{16.} Titia F. Beek, Peggy T. Cohen-Kettenis, and Baudewijntje P.C. Kreukels, "Gender Incongruence–Gender Dysphoria and Its Classification History," *International Review of Psychiatry* 28.1 (2016): 5–12, doi: 10.3109/09540261.2015.1091293.

^{17.} Daniel Trotta, "Born This Way? Researchers Explore the Science of Gender Identity," *Reuters*, August 3, 2017, https://www.reuters.com/.

^{18.} Gunter Heylens et al., "Gender Identity Disorder in Twins: A Review of the Case Report Literature," *Journal of Sexual Medicine* 9.3 (March 2013): 751–757, doi: 10.1111/j.1743-6109.2011.02567.x; and D. F. Swaab, "Sexual Differentiation of the Human Brain: Relevance for Gender Identity, Transsexualism and Sexual Orientation," *Gynecological Endocrinology* 19.6 (2004): 301–312, doi: 10.1080/09513590400018231.

that influence cell function.¹⁹ Thus, the effect of altering sex-hormone levels, through either disease or artificial manipulation, can have pleiotropic effects throughout the body.

The steroids that are primarily responsible for sexual differentiation and function are testosterone, estrogen, and progesterone. However, several additional steroids, such as androstenedione and dehydroepiandrosterone (DHEA), also activate the androgen receptor. Men and women make both estrogen and testosterone, but at markedly different levels, which vary throughout the life span of an individual.²⁰ The control of sex-hormone levels occurs primarily in the brain via the highly regulated production of luteinizing hormone and follicle stimulating hormone in the pituitary gland. A notable effect of exogenous steroid administration is the disruption of LH and FSH secretion. This is the mechanism of contraceptive agents that are composed of synthetic sex steroids.²¹ Thus, it is not possible to separate the effects of sex-hormone administration on secondary sex characteristics, such as facial hair and breast development, from the function of the gonads and other tissues that respond to these steroids.

Biological Sex and Anthropology

Before exploring the medical aspects of cross-sex hormone administration, consideration of the basic biology of human sexuality exposes a violent distortion of fundamental anthropological principles in the new gender mentality. Reproduction is the primary purpose of sex, not just in humans but also across the entire animal kingdom.²² It is objectively irrational to accommodate contrary thinking by rejecting a male or female body that is fully competent with respect to its innate reproductive purpose. Cross-sex hormones, by their very nature, render an individual incapable of fulfilling the intrinsic biological role of the human body as male or female.²³ Although potentially reversible after short-term administration, the effects of cross-sex steroids on fertility are expected to be permanent when treatment is started in children.²⁴ The readily accepted view that reproductive capacity can be dissociated

^{19.} Mitchell A. Lazar, "Mechanism of Action of Hormones That Act as Nuclear Receptors," in *Williams Textbook of Endocrinology*, 10th ed., ed. P. Reed Larsen et al. (Philadelphia: Saunders, 2002), 35–44.

^{20.} Melvin M. Grumbach and Dennis M. Styne, "Puberty: Ontogeny, Neuroendocrinology, Physiology, and Disorders," in Larsen et al., *Williams Textbook of Endocrinology*, 1115–1286.

^{21.} Roberto Rivera, Irene Yacobson, and David Grimes, "The Mechanism of Action of Hormonal Contraceptives and Intrauterine Contraceptive Devices," *American Journal of Obstetrics and Gynecology* 181.5 (November 1999): 1263–1269, doi: 10.1016/S0002 -9378(99)70120-1.

^{22.} Holger Breithaupt, "The Science of Sex," *EMBO Reports* 13.5 (May 2012): 394, doi: 10.1038/embor.2012.45.

^{23.} Hembree et al., "Endocrine Treatment," 3893. Advocates of the new medical treatment paradigm readily recognize this direct effect of cross-sex hormones and specifically counsel patients on the expected "complication" of induced sterility.

^{24.} T.D. Pache et al., "Ovarian Morphology in Long-Term Androgen-Treated Female to Male Transsexuals: A Human Model for the Study of Polycystic Ovarian Syndrome?,"

from what it means to be male and female, which has grown from the seeds of "biological mutiny" that began with the acceptance of contraception as a solution to difficult social circumstances,²⁵ must be held to close scrutiny in assessing the morality of cross-sex steroid use.

Medical Risks Associated with Cross-Sex Steroid Use

With respect to the physiological effects of altering sex-steroid levels, it is important to recognize the numerous genetic and epigenetic differences between men and women, not just in the gonads or other reproductive organs but also in every cell in the body.²⁶ These differences direct unique cellular programs of gene expression, often leading to markedly different phenotypes between the sexes.²⁷ Recognition of these differences underlies the requirement by the National Institutes of Health that any federally sponsored research must include both male and female subjects unless otherwise justified, so that valid conclusions may be drawn from preclinical studies.²⁸ Thus, giving testosterone to a woman is not the same as giving the same hormone to a man. Similarly, giving estrogen to a man is not the same as giving the same hormone to a woman. There is ample evidence of the adverse effects of having elevated levels of sex steroids that normally predominate in members of the opposite sex. For example, women with elevated androgens—testosterone and androstenedione due to congenital adrenal hyperplasia or polycystic ovarian disease have a significantly higher incidence of insulin resistance, dyslipidemia, and cardiovascular disease.²⁹ As the practice of giving cross-sex hormones is relatively new, there

25. Lambeth Conference, 1930 Resolutions, para. 15, August 17, 1930, Lambeth Conference Resolution Archive, http://www.anglican communion.org/.

26. Sonja Grath and John Parsch, "Sex-Biased Gene Expression," *Annual Review* of *Genetics* 50 (November 2016): 29–44, doi: 10.1146/annurev-genet-120215-035429. The term "epigenetic" refers to heritable changes in gene function, such as histone acetylation and DNA methylation, that do not involve changes in DNA sequence. See Cathérine Dupont, D. Randall Armant, and Carol A. Brenner, "Epigenetics: Definition, Mechanisms and Perspective," *Seminars in Reproductive Medicine* 27.5 (September 2009): 351–357, doi: 10.1055/s-0029-1237423.

27. Nichole Rigby and Rob J. Kulathinal, "Genetic Architecture of Sexual Dimorphism in Humans," *Journal of Cellular Physiology* 230.10 (October 2015): 2304–2310, doi: 10.1002/jcp.24979.

28. Janine A. Clayton and Francis S. Collins, "NIH to Balance Sex in Cell and Animal Studies," *Nature* 509.7500 (May 14, 2014): 282–283.

29. Christiaan F. Mooij et al., "Cardiovascular and Metabolic Risk in Pediatric Patients with Congenital Adrenal Hyperplasia Due to 21 Hydroxylase Deficiency," *Journal of Pediatric*

Histopathology 19.5 (November 1991): 451, doi: 10.1111/j.1365-2559.1991.tb00235.x; Cornelia Schulze, "Response of the Human Testis to Long-Term Estrogen Treatment: Morphology of Sertoli Cells, Leydig Cells and Spermatogonial Stem Cells," *Cell and Tissue Research* 251.1 (January 1988): 37, doi: 10.1007/BF00215444; and Renata Walczak-Jędrzejowska et al., "Estradiol and Testosterone Inhibit Rat Seminiferous Tubule Development in a Hormone-Specific Way," *Reproductive Biology* 13.3 (September 2013): 243–250, doi: 10.1016/j.repbio.2013.07.005.

are few long-term, controlled safety studies in the transgender population.³⁰ The available data, however, do reveal several dangerous effects of cross-sex hormones in these individuals. In addition to sterility, known risks include stroke, diabetes, osteoporosis, hyperprolactinemia, disfiguring acne, and hypertension.³¹ There are also potential risks of breast, ovarian, and prostate cancer.³² Consequently, existing treatment guidelines for patients with gender dysphoria include recommendations to counsel all patients on these risks prior to initiating hormonal interventions and to conduct regular screening during treatment.³³

Principle of Totality

Many medical practitioners, recognizing the harm done to the body by destroying reproductive capacity, still maintain that cross-sex hormone treatment is justified

31. Anne Laure Bourgeois et al., "Risk of Hormonotherapy in Transgender People: Literature Review and Data from the French Database of Pharmacovigilance," Annals of Endocrinology (Paris) 77.1 (February 2016): 14-21, doi: 10.1016/j.ando.2015.12.001; Katrien Wierckx et al., "Long-Term Evaluation of Cross-Sex Hormone Treatment in Transsexual Persons," Journal of Sexual Medicine 9.10 (October 2012): 2641–2651, doi: 10.1111/j.1743 -6109.2012.02876.x; Katrien Wierckx et al., "Prevalence of Cardiovascular Disease and Cancer during Cross-Sex Hormone Therapy in a Large Cohort of Trans Persons: A Case-Control Study," European Journal of Endocrinology 169.4 (October 2013): 471-478, doi: 10.1530 /EJE-13-0493; Lucia Turrion-Merino et al., "Severe Acne in Female-to-Male Transgender Patients," JAMA Dermatology 151.11 (November 2015): 1260–1261, doi: 10.1001/jamader matol.2015.0761; Mohamed B. Elamin et al., "Effect of Sex Steroid Use on Cardiovascular Risk in Transsexual Individuals: A Systematic Review and Meta-analyses," Clinical Endocrinology 72.1 (January 2010): 1–10, doi: 10.1111/j.1365-2265.2009.03632.x; Carl G. Streed Jr. et al., "Cardiovascular Disease among Transgender Adults Receiving Hormone Therapy: A Narrative Review," Annals of Internal Medicine 167.4 (August 15, 2017): 256–267, doi: 10.7326/M17-0577; and Spyridoula Maraka et al., "Sex Steroids and Cardiovascular Outcomes in Transgender Individuals: A Systematic Review and Meta-Analysis," Journal of Clinical Endocrinology and Metabolism 102.11 (November 1, 2017): 3914–3923, doi: 10.1210/jc.2017-01643.

32. L. Gooren et al., "Five New Cases of Breast Cancer in Transsexual Persons," *Andrologia* 47.10 (December 2015): 1202–1205, doi: 10.1111/and.12399; D.S. Dizon et al., "Ovarian Cancer Associated with Testosterone Supplementation in a Female-to-Male Transsexual Patient," *Gynecologic and Obstetric Investigation* 62.4 (November 2006): 226–228, doi: 10.1159/000094097; and Asma Sharif et al., "The Development of Prostate Adenocarcinoma in a Transgender Male to Female Patient: Could Estrogen Therapy Have Played a Role?," *Prostate* 77.8 (June 2017): 824–828, doi: 10.1002/pros.23322.

33. Hembree et al., "Endocrine Treatment," 3871, 3886.

Endocrinology and Metabolism 30.9 (August 28, 2017): 957–966, doi: 10.1515/jpem-2017 -0068; and Panagiotis Anagnostis, Basil C. Tarlatzis, and Robert P. Kauffman, "Polycystic Ovarian Syndrome (PCOS): Long-Term Metabolic Consequences," *Metabolism*, e-pub October 10, 2017, doi: 10.1016/j.metabol.2017.09.016.

^{30.} M. J. H. J. Dekker et al., "A European Network for the Investigation of Gender Incongruence: Endocrine Part," *Journal of Sexual Development* 13.6 (June 2016): 994–999, doi: 10.1016/j.jsxm.2016.03.371.

by the good that it achieves in preventing suicide.³⁴ In other words, the removal or alteration of normally formed and functioning primary and secondary sex organs is a necessary means to prevent loss of life. This moral argument appeals to the ethical principle of totality, which asserts that the individual parts of the body exist and function for the good of the whole body. Being subservient to the whole, parts of the body can be justifiably removed if their existence threatens the whole of the body.³⁵ For the principle of totality to be valid, however, alternative, less invasive interventions cannot be possible, and the action performed must have a reasonable hope of achieving the intended good effect, which in this case is suicide prevention. Yet the existing scientific evidence fails to establish that the administration of crosssex hormones satisfies either of these conditions.

The standards of care published by the World Professional Association for Transgender Health summarily dismisses efforts to help individuals with gender dysphoria explore the psychological basis for gender discordance with the intent of facilitating the reintegration of gender identity with biological sex. The WPATH directives specifically assert that "treatment aimed at trying to change a person's gender identity and expression to become more congruent with sex assigned at birth has been attempted in the past without success, particularly in the long term. Such treatment is no longer considered ethical."³⁶ Reflecting either an ideological bias or lack of scientific rigor, studies cited as supporting evidence contain numerous methodologic limitations—for example, case studies and lack of experimental controls³⁷—and include data showing that many patients did successfully realign gender identity with sex following psychological intervention.³⁸ Furthermore, the work of Kenneth Zucker and others demonstrates that many children who underwent psychotherapy

^{34.} Brendan S. Abel, "Hormone Treatment of Children and Adolescents with Gender Dysphoria: An Ethical Analysis," *Hastings Center Report* 44.s4 (September–October 2014): S23–S27, doi: 10.1002/hast.366.

^{35.} Pius XII, "The Moral Limits of Medical Research and Treatment," Address to the First International Congress of Histopathology of the Nervous System (September 14, 1952).

^{36.} E. Coleman et al., "Standards of Care for the Health of Transsexual, Transgender, and Gender-Nonconforming People, Version 7," *International Journal of Transgenderism* 13.4 (2012): 175, doi: 10.1080/15532739.2011.700873.

^{37. &}quot;The nature of sex reassignment precludes double blind randomized controlled studies of the result. ... Transsexualism is rare, and many follow-ups are hampered by small numbers of subjects. ... Many sex reassigned persons decline to participate in follow-up studies or relocate after surgery, resulting in high drop-out rates and consequent selection bias.... Several follow-up studies are hampered by limited follow-up periods. Taken together, these limitations preclude solid and generalisable conclusions. A long-term population-based controlled study is one way to address these methodological shortcomings." Cecilia Dhejne et al., "Long-Term Follow-Up of Transsexual Persons Undergoing Sex Reassignment Surgery: Cohort Study in Sweden," *PLoS One* 6.2 (February 22, 2011), e16885, doi: 10.1371 /journal.pone.0016885.

^{38.} P.T. Cohen-Kettenis and A.J. Kuiper, "Transseksualiteit en psychothérapie," *Tijdschrift Voor Psychotherapie* 10 (1984): 153–166.

alone or with their families successfully integrated their identity with their biology.³⁹ Although permanent desistance rates are lower in postpubertal patients, a growing number of adult patients, some of whom had received cross-sex steroids for several years, either alone or in addition to surgery, have also experienced resolution of their gender discordance.⁴⁰

The basis for the heterogeneity of outcomes observed in response to psychotherapy remains unknown. Given the emerging evidence for a multifactorial etiology of gender dysphoria, the likelihood of resolution may depend on the contributing factors that are present in each individual. The strength and duration of social reinforcement may also influence outcomes. Another hypothesis is that this heterogeneity is due to variations in the skill and content of the psychotherapy offered by different practitioners. Among the most striking deficiencies of the available scientific evidence regarding treatment is the lack of properly controlled trials investigating the relative effect of alternative approaches to alleviating gender dysphoria. Therefore, there is insufficient evidence to conclude that the mutilation of normally formed and functioning sex organs is the only way to prevent suicide in transgender people. Given the existence of limited but encouraging data on the potential benefits of psychotherapy and the drastic and often irreversible effects of cross-sex hormone exposure, failure to investigate potential means of refining and optimizing psychological support represents a failure of the medical profession to satisfy the long-standing principle of evidence-based practice. It represents both bad science and bad medicine.

Regarding the requirement to preserve the whole person, the totality argument primarily rests on achieving the goal of suicide prevention. Although a few small, uncontrolled, and relatively short-term studies of cross-sex hormone administration coupled with social affirmation report decreased levels of depression and suicidal ideation in youth with gender dysphoria,⁴¹ one of the largest studies to date examining the long-term mental health of people with gender dysphoria who were treated with cross-sex hormones followed by surgery reports a suicide rate nineteen times greater than in the background population.⁴² Among the subjects of this study, rates of substance abuse, conviction for violent crime, psychiatric hospitalization, and

^{39.} Kenneth J. Zucker et al., "A Developmental, Biopsychosocial Model for the Treatment of Children with Gender Identity Disorder," *Journal of Homosexuality* 59.3 (2012): 369–397, doi: 10.1080/00918369.2012.653309; Kenneth J. Zucker, "On the 'Natural History' of Gender Identity Disorder in Children," *Child and Adolescent Psychiatry* 47.12 (December 2008): 1361–1363, doi: 10.1097/CHI.0b013e31818960cf; and Devita Singh, "A Follow-Up Study of Boys with Gender Identity Disorder" (PhD diss., University of Toronto, 2012).

^{40.} I.M. Marks and D. Mataix-Cols, "Four-Year Remission of Transsexualism after Comorbid Obsessive-Compulsive Disorder Improved with Self-Exposure Therapy: Case Report," *British Journal of Psychiatry* 171.4 (October 1997): 389–390; and Walt Heyer, *Paper Genders* (NP: Make Waves Publishing, 2011).

^{41.} See, for example, Annelou L. C. de Vries, "Young Adult Psychological Outcomes after Puberty Suppression and Gender Reassignment," *Pediatrics* 134.4 (October 2014): 1–9, doi: 10.1542/peds.2013-2958.

^{42.} Cecilia Dhejne et al., "Long-Term Follow-Up of Transsexual Persons."

all-cause mortality were far above those in the background population.⁴³ A recent meta-analysis of forty-two studies reports a similar suicidality.⁴⁴ Claims that these disturbing outcomes are the result of social stigma are dubious, given that many of these studies were performed in countries, such as the Netherlands, where sexual diversity is generally praised rather than shunned. Although there is a dire need for further research, the existing data are insufficient to justify the claim that long-term suicide prevention is achieved through cross-sex hormone administration.

Principle of Double Effect

Some supporters have attempted to use the principle of double effect to justify the use of cross-sex hormones as a treatment for gender dysphoria. This argument, similar to the invocation of the principle of totality, acknowledges the harmful effects of the intervention in destroying normal reproductive function. The bad effect, sterility, is justified in relation to the good effect of suicide prevention. For one to apply this principle, it is necessary to satisfy each of its four criteria. First, the action performed must be morally good or, at least, morally neutral. In this regard, the moral agent is the one who gives regular oral or transdermal administration of sex steroids. When performed to correct a disorder of normal hormone secretion, this intervention is morally good. For example, giving estrogen to a woman with premature ovarian failure restores normal levels of this hormone, improving bone health.⁴⁵ Similarly, giving testosterone to a man with hypopituitarism enables the normal development of strength and lean body mass.⁴⁶

The second requirement is that there is proportionality between the good and bad effects. Here again, it can be legitimately argued that the good effect of preserving life through suicide prevention is equal or superior to the bad effect of inducing sterility.

The third requirement is that the bad effect (loss of normal gonadal function), while foreseen, is not directly intended. In examining this criterion in relation to the administration of cross-sex hormones, serious ethical problems become apparent. In attempting to treat gender dysphoria, the administered sex steroids—testosterone for women and estrogen for men—are intended to induce the development of secondary sex characteristics of the desired sexual phenotype. One could potentially argue that the loss of gonadal function is a foreseen but undesired consequence of the desired feminization of men and virilization of women. However, for women who wish to appear as men, normal menstruation also contributes to dysphoria. In this respect, the loss of normal ovarian function to induce amenorrhea is directly intended. Similar,

^{43.} Ibid. Rates of conviction for violent crime were higher specifically among subjects who underwent sex reassignment surgery before 1989.

^{44.} Adams et al., "Varied Reports of Adult Transgender Suicidality."

^{45.} Shannon D. Sullivan, Philip M. Sarrel, and Lawrence M. Nelson, "Hormone Replacement Therapy in Young Women with Primary Ovarian Insufficiency and Early Menopause," *Fertility and Sterility* 106.7 (December 2016): 1588–1599, doi: 10.1016/j .fertnstert.2016.09.046.

^{46.} Karen K. Miller, "Androgen Deficiency: Effects on Body Composition," *Pituitary* 12.2 (June 2009): 116–124, doi: 10.1007/s11102-008-0121-7.

but perhaps less evident, is the desire to suppress normal testicular function to prevent the virilizing effect of testosterone in biological men.

The fourth requirement, which states that the bad effect must not serve as the direct means to achieve the good effect, is similarly problematic. As demonstrated in the consideration of intentionality, loss of normal gonadal function is a direct means to alter the outward appearance of an individual attempting to conform his or her body to the sexual appearance of the discordant gender identity. From this analysis, it is clear that cross-sex hormone administration cannot be ethically justified through the principle of double effect.

Future Directions

With a proper understanding of the anthropology of sex and with the precise application of the ethical principles of totality and double effect, it is clear that the use of cross-sex hormones for the treatment of gender dysphoria is immoral. Nevertheless, there remains a need for ethically permissible alternative interventions. In attempting to address this pressing knowledge deficit, the limits of bodily manipulation must be recognized and upheld.⁴⁷ Advocates and opponents of the current treatment paradigm share a desire to provide real and sustained help for individuals who experience a gender identity that differs from their biological sex. Medical practitioners, however, must not surrender the universally accepted standard of evidence-based medicine. An adequate solution to this urgent problem must await the results of properly designed and controlled clinical trials, which, to date, do not generally exist in the transgender population. Established principles of medical practice can guide efforts to respond in a compassionate manner. These should include uncompromised respect for human dignity and ongoing efforts to combat prejudice, bullying, and unjust discrimination. At the same time, any response must recognize biological reality. Treatment should include patient and family counseling to address primary and secondary psychological dysfunction. The provision of psychiatric care does not necessitate a definitive understanding of whether a patient will experience persistence or desistance of transgendered identity. Rather, reasonable goals can enable an individual to cope with any discomfort or stress related to the presence of incongruity between his or her mind and body. While awaiting the identification of effective, morally licit solutions to this difficult problem, physicians should remember that their first duty is to do no harm.

^{47.} Willem Jacobus Cardinal Eijk, "Is Medicine Losing Its Way? A Firm Foundation for Medicine as a Real *Therapeia*," *Linacre Quarterly* 84.3 (2017): 208–219, doi: 0.1080/00243639.2017.1301112.