

1 IN THE UNITED STATES DISTRICT COURT
 2 FOR THE DISTRICT OF NEBRASKA

3 LEROY CARHART, M.D., WILLIAM G.) 4:03CV3385
 4 FITZHUGH, M.D., WILLIAM H. KNORR,) April 7, 2004
 5 M.D., and JILL L. VIBHAKAR, M.D.,) 9:00 a.m.
 6 on behalf of themselves and the) Lincoln, Nebraska
 7 patients they serve,)
 8)
 9 Plaintiffs,)
 10 vs.)
 11)
 12 JOHN ASHCROFT, in his official)
 13 capacity as Attorney General of)
 14 the United States, and his)
 15 employees, agents and successors)
 16 in office,)
 17)
 18 Defendant.)
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 22 VOLUME VII,
 23 TRANSCRIPT OF TRIAL PROCEEDINGS,
 24 BEFORE THE HONORABLE RICHARD G. KOPF,
 25 UNITED STATES DISTRICT JUDGE

A-P-P-E-A-R-A-N-C-E-S:

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24 Proceedings recorded by manual stenograph, transcript
25 produced with computer.

1 (Wednesday, April 7, 2004, at 9:00 a.m.)

2 THE COURT: Good morning.

3 MR. COPPOLINO: Good morning, Your Honor.

4 THE COURT: Counsel, you may proceed.

5 MR. COPPOLINO: Your Honor, the defendant calls Dr.
6 Curtis Cook.

7 DR. CURTIS COOK, DEFENDANT'S WITNESS, SWORN

8 THE COURT: You may inquire.

9 DIRECT EXAMINATION

10 BY MR. COPPOLINO:

11 Q. Thank you, Your Honor. Good morning. Good morning, Dr.
12 Cook. Would you tell the Court, please, who you are, where
13 you're from, and what you do for a living?

14 A. My name is Dr. Curtis Cook. I'm a maternal fetal
15 specialist from Grand Rapids, Michigan.

16 Q. Dr. Cook, I put in front of you on the witness stand a
17 copy of Defendant's Exhibit 527. Would you please take a
18 look at that. Could you identify that document for the
19 Court?

20 A. This is a document of my curriculum vitae that I believe
21 was most recently updated in January of this year.

22 Q. And did you create this document, Dr. Cook?

23 A. I did.

24 Q. And does it accurately reflect your education, work
25 experience, publications, the organizations that you are a

1 member of?

2 A. It does.

3 MR. COPPOLINO: Your Honor, the Government moves to
4 admit into evidence Defendant's Exhibit 527.

5 MS. SMITH: No objection.

6 THE COURT: Received.

7 BY MR. COPPOLINO:

8 Q. Dr. Cook, what is your area of medical specialty?

9 A. I'm a maternal fetal medicine specialist, board
10 certified in maternal fetal medicine. I'm also a
11 obstetrician gynecologist, and board certified in obstetrics
12 and gynecology. In general, you would describe my position
13 as taking care of women with complicated pregnancies.

14 Q. You anticipated my next question. Could you tell the
15 Court, if there is anything more to say, what is a maternal
16 fetal specialist?

17 A. Maternal fetal medicine specialist is someone who has
18 done an additional length of training, beyond their
19 obstetrics and gynecology residency, to learn to care for
20 complicated pregnancies that may include complications that
21 are medical complications for the fetus or medical
22 complications for the mother.

23 Q. Is that also referred to as a perinatologist?

24 A. Yes. There are different terms that are utilized.
25 Perinatology, meaning around the time of birth. High risk

1 obstetrics, but generally the official term we use is
2 maternal fetal medicine specialist.

3 Q. Doctor, where do you practice medicine?

4 A. In Grand Rapids, Michigan, and some other locations in
5 west Michigan.

6 Q. Are you licensed to practice in Michigan?

7 A. I am.

8 Q. Who are you employed by?

9 A. I'm employed by Spectrum Health, which is a large health
10 care organization predominantly in western Michigan.

11 Q. Are you associated with a medical school?

12 A. I am. I have an academic appointment with the Michigan
13 State College of Human Medicine.

14 Q. And what is your -- if there is a title or position that
15 you hold in connection with Michigan State?

16 A. I'm Associate Clinical Professor in the Department of
17 Obstetrics and Gynecology.

18 Q. So is it correct to say, that in addition to your
19 clinical duties at Spectrum Health, do you teach medical
20 students and residents?

21 A. That's correct.

22 Q. Where did you go to medical school, Doctor?

23 A. I graduated from Indiana University, School of Medicine.

24 Q. What year did you graduate?

25 A. 1989.

1 Q. And where did you do your residency?

2 A. I did my residency at what was then called Butterworth
3 Hospital, and is subsequently now part of Spectrum Health.

4 Q. Could you just explain briefly how a medical student
5 goes on to be an OB/GYN?

6 A. After successful completion of your medical school
7 training, you then enter a four-year residency program in
8 obstetrics and gynecology. And then in the situation of
9 maternal medicine, there is an additional training period
10 called your fellowship training period in complicated
11 pregnancies, which is currently a three-year training
12 commitment.

13 Q. And where did you do your residency, Doctor?

14 A. I did my residency at Butterworth Hospital in Grand
15 Rapids.

16 Q. At that time, were you working on OB/GYN matters?

17 A. At that time, I was training in obstetrics and
18 gynecology, yes.

19 Q. Your fellowship, Doctor, where was that?

20 A. My fellowship training in maternal fetal medicine was at
21 the University of Louisville in Kentucky.

22 Q. Did there come a time after the completion of your
23 fellowship training that you returned to Grand Rapids and
24 Butterworth Hospital?

25 A. I did return in Grand Rapids in 1995, where I have

1 subsequently practiced maternal fetal medicine.

2 Q. What course of instruction did you go through to become
3 a maternal fetal medical specialist?

4 A. Well, there is a series of both clinical and didactic
5 experiences that are required, but for myself, it was a
6 six-year training program; four years of obstetrics and
7 gynecology, and two years of maternal fetal medicine.
8 Subsequent to my training, they have increased the
9 commitment of training to seven years, with four years of
10 the residency and three years of a fellowship.

11 Q. And just to be a little bit more specific, in your
12 fellowship on maternal fetal medicine, what kinds of things
13 are you exposed to, in order to prepare you to become a
14 board certified maternal fetal medicine specialist?

15 A. We are expected to have a experience and expertise in a
16 wide variety of both medical and surgical complications for
17 both the mother an her unborn child or children, which would
18 include ultrasound capability, would include managing
19 surgical complications that may arise for either the fetus
20 or the mother. Doing certain intrauterine surgical
21 procedures on a fetus, things of that nature.

22 Q. Doctor, what positions do you currently hold in Spectrum
23 Health, and could you tell us what they entail?

24 A. Currently, I'm the Associate Director for Maternal Fetal
25 Medicine at Spectrum Health, which means I have certain

1 administrative responsibilities, as well as responsibilities
2 in the area of helping form clinical protocols and certain
3 quality assurance oversight issues. Things of that nature.
4 I also have a teaching appointment in our residency program,
5 which I previously helped administrate, but I don't
6 administrate the residency program currently. So we have a
7 lot of responsibilities of teaching and supervising the
8 training of medical students and residents, generally in the
9 area of complicated pregnancy, but I also have
10 responsibilities in other areas of obstetrics and gynecology
11 as well.

12 Q. Now, you said you were an Associate Clinical Professor
13 at Michigan State. Could you tell us what your duties are
14 in that connection?

15 A. My primary responsibilities with my Michigan State
16 appointment is the teaching and training of their medical
17 students, when they rotate on obstetrics and gynecology
18 rotations, as part of their third year of their clinical
19 medical school training. And then, occasionally, students
20 doing further elective rotations during their fourth year.
21 Those rotations typically focus more on just complicated
22 pregnancies.

23 Q. Could you just describe to the Court what you teach when
24 you're working with the medical students at Michigan State?

25 A. It's a variety of clinical and medical management. I'm

1 sorry. Surgical and medical management in the field of
2 clinical obstetrics and sometimes gynecology as well. We
3 teach them surgical techniques, indications for surgery,
4 management of complications of surgery, and in the same sort
5 of things in the medical realm, all in relation to generally
6 obstetrics but also some gynecology.

7 Q. What settings do you teach the medical students in at
8 Michigan State?

9 A. They participate in our didactic lectures. They
10 participate in our on-the-floor clinical management teaching
11 or teaching of clinical management of patients. They
12 participate in our operating rooms where we also are doing
13 clinical teaching. They also come over to our office where
14 they experience some of the ambulatory medical management
15 and surgical management of complicated pregnancies.

16 Q. Could you describe what you teach medical students, with
17 reference to the various trimesters of pregnancy?

18 A. Well, there are multiple issues that we teach, that we
19 have to touch on during the course of their education.
20 Everything from fetal development issues to maternal
21 physiologic changes of pregnancy. We also have to deal with
22 the management of complications in all three trimesters, and
23 those complications can include delivery in all three
24 trimesters, or management of complications of deliveries in
25 all three trimesters.

1 Q. If you could, I would like to you describe in a little
2 more detail, in your clinical practice, what you do, the
3 kind of cases you handle?

4 A. Well, currently, my clinical practice is virtually all
5 made up of patients that are referred to our office from
6 other physicians that have been caring for the patient.
7 Most often family practitioners and obstetrician
8 gynecologists, but we also see pregnant women from a variety
9 of specialists with a variety of surgical and medical
10 complications with the mother. Some of those are
11 preexisting medical complications, such as chronic medical
12 illness like diabetes, hypertension, malignancy, things of
13 that nature. We see women that develop complications during
14 the course of their pregnancy, such as early labor, early
15 braking of the water, and then we see pregnancies that are
16 complicated because of fetal concerns like suspected
17 abnormalities of the fetus, multiple gestation, things of
18 that nature. So we have a very large volume referral
19 practice where we then either do a one-time consultation, an
20 ongoing consultation, or total management of the care of
21 that pregnancy from that point forward.

22 Q. You mentioned, I believe, diabetes, and malignancy and
23 hypertension. What other types much specific maternal
24 health conditions do you typically see in pregnant women
25 that you treat?

1 A. Again, it's a very large volume practice covering a very
2 large referral area. So we see pretty much the entire gamut
3 of medical and surgical complications that include
4 hypertension, preeclampsia, renal disease, cardiovascular
5 problems, other vascular problems. You name it, we pretty
6 much see it.

7 Q. Okay. Do you deliver babies in your practice, Doctor?

8 A. We do.

9 Q. Okay. But is it fair to say that you are delivering
10 babies in the context of high risk pregnancies?

11 A. Most of the deliveries we are doing are in the context
12 of high risk pregnancies, but we also take rotational call
13 where we also supervise normal low risk pregnancies as well
14 as gynecologic procedures.

15 Q. Actually, how many babies do you deliver a year?

16 A. I deliver something on the order of 100 to 200 babies a
17 year typically.

18 Q. Would you estimate approximately how many babies have
19 you delivered in the course of your career?

20 A. Several thousand.

21 Q. Do you also perform medical procedures on living
22 fetuses?

23 A. I do.

24 Q. Would you describe what those are and the circumstances
25 in which you do that to the Court?

1 A. Again, there are a variety of procedures that we perform
2 on the fetus as part of being a maternal fetal medicine
3 specialist. They may include procedures that are sampling
4 procedures, where we are taking material from a fetus, maybe
5 fluid or tissue from various body cavities; from the chest,
6 the abdomen. We may be putting shunts into a fetus, in
7 order to bypass an obstruction. We may be doing
8 transfusions into the baby for certain anemia situations.
9 We sometimes treat the baby directly with certain types of
10 medications to facilitate our ability to do other surgical
11 procedures. So there is a number of different biopsies,
12 samplings, training, treatments that we do.

13 Q. Are any of those procedures that you perform on living
14 fetuses life saving procedures for the fetus?

15 A. Many of them are, yes.

16 Q. Which ones are those?

17 A. Most specifically, when we are transfusing a fetus that
18 has severe anemia, without those transfusions the fetus
19 would not be able to survive the pregnancy.

20 Q. Do you also treat women for complications of abortion?

21 A. We do.

22 Q. Would you describe for the Court what types of
23 complications you treat, for women that have had abortions?

24 A. If we see a patient in the immediate period of time
25 after an attempted abortion, it's typically a treatment

1 regarding some sort of inadvertent perforation, or
2 laceration, or incomplete termination where there is
3 retained fetal parts. If we are treating a longer term or
4 delayed complication of a prior termination of pregnancy,
5 that usually entails issues related to cervical weakness or
6 cervical incompetence or premature labor.

7 Q. Doctor, does your practice involve the termination of
8 pregnancy before term?

9 A. Sometimes it does.

10 Q. And, first of all, let me just ask, what's the most
11 common method of pregnancy termination, prior to term that
12 you utilize?

13 A. In our practice, because of the nature of the patients
14 that we see and the gestational age, at which they are
15 referred, it's predominantly through the method of medical
16 induction.

17 Q. Why is that?

18 A. Well, for a number of reasons. One is many of the
19 indications are babies with certain types of lethal fetal
20 abnormalities. They are typically diagnosed by mid
21 trimester ultrasound, and don't come to our attention until
22 generally later than 16 to 18, and often, later than 20
23 weeks gestation. In addition, if it is a suspected fetal
24 abnormality, we frequently want to have a complete fetus for
25 pathologic evaluation after delivery. Also, many of the

1 patients that we see also have underlying maternal medical
2 complications that mandate that we try to deliver them in as
3 controlled a situation as possible, using as normal a
4 process as possible for the delivery.

5 Q. Okay. Now, Doctor, in addition to medical induction
6 have you had occasion to perform abortion by other methods?

7 A. There have been some rare instances where we have been
8 involved in other types of procedures including surgical
9 evacuation of the uterus in the second trimester.

10 Q. And why did you describe it as rare instances that you
11 were performing surgical evacuation?

12 A. Because, again, most of the ones we see are later
13 gestational ages, or we feel that the preferable way to
14 deliver them is by medical induction. There are a few
15 instances where we have been involved in surgical delivery
16 of a second trimester fetus, because at that time, that
17 would be the optimal route for delivery.

18 Q. Have you had occasion to have to terminate a pregnancy
19 on a fetus that is living?

20 A. I have been involved in cases where we have had to
21 complete the pregnancy on a still, at that time, living
22 fetus, prior to viability.

23 Q. And could you describe to the Court the different
24 circumstances in which you might proceed, in which you have
25 to terminate a pregnancy both pre and post-viability. Let's

1 start with post-viability. How do you proceed when you have
2 to terminate a pregnancy post-viability, prior to the actual
3 due date?

4 A. In the post-viability situation, which usually means 23
5 weeks and beyond, we never need to do anything that would
6 destroy or harm the fetus. We just need to end the
7 pregnancy or separate the fetus from the mother. So most
8 often, that is done by medical induction of labor, where our
9 goal is to try to get an optimal outcome for both the mother
10 and the baby.

11 Q. Now, in the pre-viability circumstance, how does that
12 typically proceed when it's necessary to end the pregnancy
13 before the time in which the fetus is likely to be viable
14 outside the womb?

15 A. In the pre-viable situation, 22 weeks or less, it's less
16 common that we need to end the pregnancy, but it still
17 occurs. In that situation, again, all that is required is
18 separating the fetus from the mother. So we do the best we
19 can to accomplish that in as safe a way as possible for the
20 mother, which usually would be medical induction of labor in
21 that situation.

22 Q. You used the term viability in the last few minutes. We
23 all have a sense of what that means after a week-and-a-half,
24 but perhaps you could give us your view of what the term
25 viability means?

1 A. Well, viability usually refers to the fetus's ability to
2 survive as a neonate, separate from the mother, while still
3 availing itself of all the current medical technology that
4 is available, and because the medical technology has
5 continued to improve in the area of neonatal medicine, the
6 line of viability continues to be pushed back. But at this
7 point in time, currently 23 weeks gestation or about 400
8 grams is considered the lower limit of viability with
9 survival rates nationally of about 30 to 40% at that
10 gestational age.

11 Q. Is it ever possible for a fetus to survive earlier than
12 23 weeks?

13 A. There have been people that have discussed survival of
14 fetuses potentially even at 22 weeks, but most of that data
15 is somewhat suspect, because of the inherent error in dating
16 pregnancies at that point and because of the weights of the
17 fetuses at that gestational age. So it more likely
18 represents a miscalculated pregnancy than a true 22-week fetus.
19 Although technology continues to improve, and we may be
20 seeing survival at gestational age in the not so distant
21 future.

22 Q. What did you mean when you said something like the
23 inherent error in viability dating. Did I quote that
24 correctly?

25 A. I think the inherent dating of gestational age.

1 Q. What were you referring to, I believe, when you said
2 with respect to the potential accuracy of dating this that
3 gestational age?

4 A. Prior to the error of routine, early ultrasound
5 evaluation of pregnancies, the best way to date a neonate
6 was by looking for certain features of the neonate after
7 delivery, as well as looking at the neonate's weight. And
8 that was not found to be as accurate because of the
9 individual variation that occurs in any given population.
10 It was not found to be as accurate as early ultrasound would
11 be. So in the era of routine ultrasound dating, we now rely
12 on that predominantly for our gestational age dating, but
13 there is an error range with ultrasound as well. In the
14 first trimester, it may be plus or minus a week gestation.
15 In the second trimester, it may be plus or minus up to two
16 weeks gestation. And in the third trimester, it may be plus
17 or minus even three weeks gestation.

18 Q. What's the gestational age of pregnancies that you are
19 typically involved with?

20 A. Well, we do get involved in gestational ages across the
21 board. For instance, if a mother has a preexisting known
22 medical complication such as diabetes, we may be involved
23 from the very beginning of their pregnancy, or even before
24 they get pregnant, in order to try to optimize their
25 outcome. But if it's predominantly a referral for suspected

1 fetal abnormality, typically we see those patients in the
2 late second trimester initially.

3 Q. And what weeks would you describe as the late second
4 trimester?

5 A. Generally 20 weeks and beyond.

6 Q. And just so that we are clear, because we are going to
7 be talking about weeks throughout your testimony, are you
8 dating it based on so-called last menstrual period dating?

9 A. Yes. Generally in the area of clinical management of
10 pregnancies, it's pretty universally utilized as last
11 menstrual period initiating the initial dating of the
12 pregnancy. So we'll talk in menstrual weeks for gestational
13 age. If we are talking about other types of issues, like
14 the effects of certain types of radiographs or medications
15 on a pregnancy, then we usually will talk in embryonic weeks
16 which is dating the pregnancy from fertilization forward.
17 So menstrual dating will actually add two weeks prior to
18 fertilization in general. But by convention, clinically,
19 when we talk about weeks gestation, we are referring to
20 menstrual weeks with 40 weeks being a full pregnancy.

21 Q. I believe you testified earlier that you receive
22 referrals from other OB/GYNs to deal with complicated
23 pregnancies; is that correct?

24 A. That is correct.

25 Q. And just explain why that is the case. Why are cases

1 being referred to you that a regular OB/GYN is not handling?

2 A. Well, they recognize the additional training and
3 expertise that we have in the management of complicated
4 pregnancies. And they are availing themselves of that
5 resource. At times, it involves just a single meeting with
6 the patient and a single recommendation. At other times,
7 it's ongoing co-management of a pregnancy. And in other
8 instances, they are asking us to take over total care of the
9 pregnancy because of the level of complication involved.

10 Q. Now, Doctor, your practice does not involve the
11 performance of abortions for elective reasons; is that
12 correct?

13 A. That is correct.

14 Q. Does your practice and your specialty, nonetheless,
15 require that you have expertise in safe and effective
16 methods of terminating a pregnancy?

17 A. Yes. It is necessary, because of the medical
18 complications we see in both the mother and the fetus, to
19 have expertise in emptying the uterus in all three
20 trimesters of pregnancy.

21 Q. And is it also the case -- we may have established this
22 already, but let me just make it clear on the record. Is it
23 also the case that there are occasions when you may have to
24 end the pregnancy when you know that the fetus is likely to
25 die from prematurity?

1 A. That is the case at times, because of the complications
2 that the mother is experiencing with the pregnancy.

3 Q. And is understanding how to end a pregnancy prematurely
4 part of what it takes to be a maternal fetal specialist?

5 A. That is a correct statement.

6 THE COURT: Mr. Coppolino, at some point, I'll want
7 to know if the doctor has, in the past or presently,
8 performs D & Es.

9 MR. COPPOLINO: Coming right to that, Your Honor.
10 I knew you were going to want to know that.

11 THE COURT: It's a matter of intuition. Go ahead.

12 MR. COPPOLINO: Thank you, Your Honor.

13 BY MR. COPPOLINO:

14 Q. Now, you mention that you primarily perform induction
15 terminations; is that correct, Doctor?

16 A. That is correct.

17 Q. Could you just provide the Court a range of gestational
18 weeks in which you are performing induction terminations?

19 A. Generally, if we are emptying the uterus beyond 16 to 18
20 weeks gestation, we are using medical induction as our
21 predominant form of emptying the uterus.

22 Q. So to say after?

23 A. 16 to 18 weeks.

24 Q. What methods of abortion are you familiar with, based on
25 your clinical experience or your study?

1 A. I'm familiar with suction, aspiration or curettage
2 procedures. I'm familiar with other mid trimester surgical
3 evacuation procedures such as D & E. I'm familiar with
4 medical induction of labor, predominantly through the use of
5 Prostaglandins. And I'm also familiar with the use of other
6 surgical techniques such as hysterotomy.

7 Q. Let's just briefly go through those. Could you just
8 give us your description and understanding of what the
9 suction curettage method is, when it applies and what kind
10 of a method that is?

11 A. The suction curettage method is typically a vacuum
12 aspiration method, usually reserved for the first trimester
13 of pregnancy, meaning the fetuses that are 12 weeks
14 gestation or less. And it involves minimal dilation of the
15 cervix with the passing of a cannula, whereby you are then
16 applying a vacuum suction in order to evacuate the
17 intrauterine contents. There may be a follow-up sharp
18 curettage done with an instrument following this procedure
19 as well.

20 Q. And have you had occasion to perform that procedure?

21 A. I have.

22 Q. And in what circumstances?

23 A. Typically, in the situation of a pregnancy that's termed
24 a missed abortion, which means a spontaneous loss of a fetus
25 or a spontaneous miscarriage, where they have not passed the

1 tissue on their own.

2 Q. Now, you mentioned the D & E method abortion. First of
3 all, what does D & E stand for?

4 A. Stands for dilation and evacuation.

5 Q. Have you ever performed a D & E abortion?

6 A. I have.

7 Q. First of all, can you describe that procedure as you
8 understand it?

9 A. Typically, it's a procedure that requires more cervical
10 dilation, in order to remove the fetus, which typically is
11 dismembered in the process of that procedure. And following
12 the procedure, the dismembered parts are then assimilated
13 and accounted for to assure there has been completion of the
14 procedure.

15 Q. Why don't we just go to the judge's question. Have you
16 ever performed -- tell us what your experience is in
17 performing D & Es, both in the circumstances of a living
18 fetus or a fetus that is not living?

19 A. First, my experience is not a large number of cases
20 predominantly, because of the timing at which patients are
21 referred to me and the nature of the patient that is
22 referred to me, but there have been some rare instances
23 where the clinical situation would necessitate a surgical
24 evacuation. And I have been involved in some of those
25 cases. I have also been involved in some cases where I'm

1 providing ultrasound support or guidance for another
2 practitioner who is doing the procedure, typically because
3 there has been a failure of another procedure.

4 Q. If you can estimate it, Doctor, have you ever performed
5 a D & E on a living fetus?

6 A. To my knowledge, I have not directly been the one
7 performing the procedure on a fetus that is living at the
8 time of D & E. I have either assisted or participated in
9 cases where the baby was recently living but not living at
10 the time of the procedure. And there are some cases where I
11 may providing ultrasound guidance where we are not exactly
12 sure when the fetus had a loss of the heart rate.

13 Q. And, again, why don't you typically perform D & Es on
14 living fetuses?

15 A. Well, mostly because it's not my treatment of choice,
16 because of the other clinical circumstances that are going
17 on at that time. But if the case arose where we felt that
18 it was in the mother's best health interest to end the
19 pregnancy, and we could not do it safely as in the manner of
20 a labor induction, then I have experience doing the D & E
21 technique and would do that, if the clinical situation
22 necessitated that, in order to preserve the health of the
23 mother.

24 Q. All right. Now, have you had occasion to utilize the D
25 & E technique to empty the uterus on a fetus that's already

1 dead?

2 A. I have.

3 Q. And could you describe to the Court your experiences of
4 the numbers of times you have had occasion to do that,
5 either in a year, or per year, or over the course of your
6 career?

7 A. Again, that's not very commonly needed procedure in our
8 practice, so I might do it one time a year or less. But
9 there have been some clinical situations that are relatively
10 unique to our practice where that has been the method that
11 we have felt has been the most effective method for emptying
12 the uterus.

13 Q. Getting back to the process of the D & E, could you just
14 describe a little more specifically how fetal parts are
15 grasped and removed during the course of a D & E?

16 A. In years prior to ultrasound guidance, it was done in a
17 more blind fashion by first having some period of time of
18 cervical preparation or dilation, in order to allow passing
19 of instruments which are typically large grasping-type
20 instruments, where they try to grasp whatever portion of the
21 fetus they can get ahold of. And they try to drag it down
22 through the cervix, while at the same time, trying to
23 disarticulate those portions of the fetus so they can
24 deliver the fetus through a smaller opening.

25 Q. And did I hear you correctly to say the operator

1 employees some sort of traction in removing the fetal part
2 in a D & E?

3 A. That is correct.

4 Q. And traction against specifically what?

5 A. Typically, against the cervix.

6 Q. And I hope this is a clear question, but what is the
7 result of a D & E, in terms of the state of the fetus, at
8 the conclusion of the procedure?

9 A. Well, typically the fetus is delivered in portions that
10 are disarticulated or nonintact. And following the end of
11 the procedure, there should be confirmation that all of the
12 fetal parts are present, including the thorax and all four
13 extremities. But most importantly, the after coming head,
14 which can sometimes be the most difficult part of the
15 procedure.

16 Q. Doctor, could you describe for the Court what the nature
17 of fetal tissue is like in prior to 20 weeks?

18 A. Well, prior to 20 weeks, the general nature of the
19 tissue is much more fragile than we observe, for instance,
20 at 24 weeks and beyond. The skin is much more easily
21 disrupted, the fetus bruises much more easily, inadvertent
22 disarticulations or trauma can occur much more easily.

23 Q. Can you explain to the Court how it is that you know
24 what the nature of fetal tissue is both before and after 20
25 weeks, since you don't perform D & Es on all that many

1 occasions?

2 A. Well, there are many experiences that we have with the
3 fetus across the gestational age time frame or spectrum. We
4 frequently deliver babies at that gestational age where we
5 have been unsuccessful in holding off the pregnancy, so we
6 frequently have, or hold, or are in direct contact with
7 fetuses of that gestational age and all the gestational ages
8 thereafter.

9 Q. What are some of those procedures that you're performing
10 on a living fetus that gives you an idea of what fetal
11 tissue is like prior to 20 weeks?

12 A. Well, these include both in utero and ex utero
13 procedures. Ex utero, it's mostly the issue related to
14 delivery of the fetus. In utero, it would be the various
15 different medical and surgical procedures that we are doing
16 which include biopsies, transfusions, aspirations, things of
17 that nature.

18 Q. We may have covered this in some of your answers before,
19 but I would like to just ask it as a separate question and
20 give you an opportunity to explain it separately. You have,
21 through the years, performed quite a few less D & Es in your
22 career than medical induction; is that correct?

23 A. This is correct.

24 Q. And, again, why is that? Why is it that you've
25 performed predominantly medical induction procedures in your

1 type of practice?

2 A. Well, there are a variety of different reasons. One is
3 just the gestational age at which most patients present to
4 us with the issues specifically of a lethal fetal
5 abnormality or significant fetal abnormality. Those we
6 frequently see in our office are 20 weeks and beyond, where
7 a D & E is a much more complicated procedure and potentially
8 a much riskier procedure. In addition, it is preferable for
9 babies with suspected abnormalities to have a completely
10 intact, including an intact central nervous system, to be
11 able to evaluate that fetus for pathologic studies, because
12 it would have implications potentially for other family
13 members or other pregnancies for that same patient. In
14 addition, many of the patients that we see are devastated by
15 the unexpected outcomes of the fetuses, and want to be able
16 to have whatever period of time they can with their baby,
17 which would include generally being able to hold a baby
18 that's is intact as and normal appearing as possible.

19 Q. Doctor, is there something about the maternal health
20 conditions that you deal with that you believe that medical
21 induction is the more appropriate procedure in the cases
22 that you're dealing with?

23 A. Well, some of the reasons that we have to end
24 pregnancies early on are because of maternal medical
25 complications, rather than just fetal abnormalities. In the

1 setting of maternal medical complications, we want to try to
2 utilize as natural and as physiologic a process as possible
3 to complete the pregnancy, which would mean a monitored
4 labor induction. We have also improved significantly in our
5 ability to safely monitor and support a woman through a
6 labor and delivery process, even with significant underlying
7 medical conditions.

8 Q. Why is it -- you have used the word monitored a couple
9 of times in your answer. Why is it important to be able to
10 monitor a woman's health condition during the procedure?

11 A. Well, for some of these women, their underlying disease
12 may include major cardiovascular concerns or central nervous
13 system concerns, or other health concerns that may involve
14 the use of more sophisticated, either invasive or
15 noninvasive monitoring to demonstrate that they are doing
16 well during the process. The surgical options are generally
17 less physiologic, more invasive and potentially more
18 complicated for the mother.

19 Q. Now, even though it is the case that you perform
20 primarily induction terminations in your practice, do you,
21 nonetheless, need to understand how surgical methods are
22 performed in your practice?

23 A. We do, because there are some situations where the
24 surgical method may be the preferred method. Also, we
25 oftentimes are asked to get involved in complications of

1 surgical terminations, and so we need to be familiar with
2 how they are done.

3 Q. Um-hm. In your practice, if it was necessary to
4 terminate a pregnancy pre-viability, would you say there
5 would be some circumstances in which the D & E procedure
6 would be an option?

7 A. Yes, there may be some situations where D & E is the
8 preferred route.

9 Q. And what might those situations be?

10 A. Well, one situation I had encountered myself involved a
11 patient that had had an abdominal cerclage placed, which is
12 a stitch around the cervix placed after performing a
13 laparotomy, or an abdominal incision, because she had had
14 multiple failed attempts at a vaginal cerclage with other
15 pregnancies, who subsequently had a fetal loss and now has a
16 stitch that is constricting the amount of dilation that her
17 cervix can achieve. And our only option, at that point,
18 would be either a D & E procedure on, at that time, a
19 nonliving fetus, or a repeat laparotomy and hysterotomy.
20 And in that situation, for instance, after discussion with
21 the patient, it was felt that D & E would be the preferred
22 method for emptying her uterus while avoiding another major
23 abdominal surgery for the mother.

24 Q. Doctor, is there a period in gestation when the D & E
25 procedure might be an option for treating the kinds of women

1 that you're treating?

2 A. I'm sorry. Could I have you repeat the question?

3 Q. Is there a period in gestation where it may be the case
4 that the D & E procedure is an appropriate procedure, in
5 your view, for terminating a pregnancy?

6 A. Yes. I believe that D & E can be done safely and may be
7 an appropriate procedure for emptying a uterus in the
8 earlier mid trimester, up to 20 weeks gestation, if the
9 medical situation warrants it. Meaning that the mother's
10 condition or the fetal condition is such that emptying of
11 the uterus is necessary.

12 Q. Do you ever have occasion to refer women to physicians
13 that perform D & Es?

14 A. I do.

15 Q. And in what circumstances do you do that?

16 A. In our office, if we diagnosis a fetus with a nonlethal
17 fetal abnormality, we do not perform those terminations of
18 pregnancy through our office, and so we will refer them out
19 to another office, another university or a local facility,
20 if the patient, indeed, wants to proceed with termination of
21 pregnancy.

22 Q. Now, a moment ago, I asked you to give me an estimate of
23 the number of D & Es you typically perform. I would like to
24 ask you if you can give me a estimate of the typical
25 inductions you perform in a given year?

1 A. In that -- in the pre-viable or less than 23 week
2 gestational age, that may come up only once or twice a
3 month. In the gestational age beyond 23 weeks, it may come
4 up as frequently as once a week that we feel the need to
5 induce the pregnancy or complete the pregnancy early, in
6 order to facilitate the recovery of the mother, or because
7 we think the fetus is not thriving in utero and needs to be
8 delivered.

9 Q. Would you describe for the Court the medical induction
10 procedure for second trimester terminations?

11 A. The medical induction procedure for second trimester
12 terminations of pregnancy utilizes predominantly
13 Prostaglandins in either an intravaginal, oral, rectal or
14 even intramuscular route. There may be some cervical
15 preparation that's done prior to instigating that medical
16 induction, and that cervical preparation may include the
17 placement of cervical dilators, prior to initiating the
18 induction.

19 Q. And, again, we may have covered this, but in inductions
20 that you perform prior to viability, there are occasions
21 when those are performed on a living fetus?

22 A. That is correct.

23 Q. And in those circumstances, the living fetus dies?

24 A. At some point in the processor, or else the fetus may be
25 born with signs of life but is not able to survive

1 ultimately, just because of the early gestational age.

2 Q. Doctor, do you also treat women -- I believe you said
3 you also treat women for complications of abortion, is that
4 correct?

5 A. That is correct.

6 Q. Why is that a part of your practice?

7 A. Well, we are generally recognized as experts in the
8 management of complicated pregnancies. And if somebody
9 experiences an unexpected complication during a pregnancy,
10 then we'll be asked to get involved. That may include
11 everything from a scheduled nonobstetric surgery for a
12 patient, such as an appendectomy or a cholecystectomy, where
13 they are removing the gallbladder, but it can also include
14 people that have attempted a termination of pregnancy and
15 then experienced a complication; most commonly perforation,
16 bleeding or infection, where we then are asked to get
17 involved because of our expertise in management of those
18 types of patients.

19 Q. Okay. I believe you just mentioned perforation,
20 bleeding, and infection. Are there other types of
21 complications of abortion that you've treated or are those
22 the general categories?

23 A. Those are the general categories. Sometimes it's
24 retained fetal parts, but those patients usually have other
25 co-existing problems such as bleeding, infection or

1 perforation.

2 Q. Doctor, does your experience in treating abortion
3 complications -- what does that tell you about the safety of
4 different abortion methods?

5 A. Well, most of the patients that we see with
6 complications of surgical evacuation of the uterus are those
7 that are done at the later second trimester gestational ages
8 or those in which there was an under estimate of the
9 gestational age, and there may not have been adequate
10 cervical dilation or the operator may not have appreciated
11 the size of the fetus. But most of the ones that we see are
12 complications of surgical management of mid trimester
13 pregnancies.

14 Q. Now, Doctor, have you heard of a procedure called either
15 intact D & E or D & X?

16 A. I have.

17 Q. What is your understanding of that procedure? Let's use
18 the term D & X for now. What's your understanding of a D &
19 X procedure?

20 A. My understanding of that procedure is that it was a
21 procedure designed as a method of surgical evacuation of the
22 uterus in the late second trimester and beyond, generally 20
23 weeks gestation and beyond that, was designed to try to
24 facilitate delivery of a larger fetus with a larger after
25 coming head, while trying to maintain the intactness of the

1 remainder of the fetus below the neck.

2 Q. And how did you come to hear of that particular
3 procedure?

4 A. I believe I first became aware of it when it was
5 proposed through the U.S. Congress as a procedure that would
6 be worthy of being evaluated and potentially banned, if,
7 indeed, it turned out to have some of the potential risk or
8 concerns that subsequently have come to light.

9 Q. So I'm clear, Doctor, has that procedure that you just
10 described a moment ago, the D & X procedure, has that
11 sometimes been referred to as partial-birth abortion?

12 A. It has.

13 Q. What do you understand the term partial-birth abortion
14 to refer to?

15 A. I understand it to refer to the procedure basically
16 described by Dr. Haskell as a D & X procedure. Dr. McMahon,
17 as an intact D & E procedure, and others as the intact D & X
18 procedure, the hallmark of which is overt dilation of the
19 cervix, potentially internal podalic version or turning a
20 fetus to a breech position, grasping the fetus, pulling it
21 down through the dilated cervix to the level of the after
22 coming head, such that all the fetus is delivered but the
23 head. And then doing some sort of destructive and
24 decompression procedure on the fetal head to allow passage
25 of the remainder of the baby.

1 Q. Doctor, based on your understanding of the D & E
2 procedure that we talked about earlier, and the procedure
3 you just described, D & X or partial-birth abortion, do you
4 understand that the D & X procedure refers to a procedure
5 that is distinct from D & E?

6 A. I do understand it to be distinct.

7 Q. All right. And how is it distinct?

8 A. Well, it's distinct at a variety of levels. It's
9 performed at a much later gestational age than most D & Es
10 are performed. It's performed on a larger fetus than most D
11 & Es are performed. It involves much more cervical dilation
12 or distension than atypical D & E would involve. It
13 involves more intrauterine manipulation of the fetus, and it
14 also involves a decompression procedure of the fetal head
15 that is unique in its form of aspirating out the brain
16 contents.

17 Q. In your response, I believe you indicated that the
18 procedure was utilized at later gestational ages. Do you
19 have an opinion as to whether the D & X procedure,
20 partial-birth abortion procedure, was designed for use at
21 greater gestational ages?

22 A. Yes.

23 MS. SMITH: Excuse me, Your Honor. Foundation.

24 THE COURT: What foundation is lacking? What
25 foundation is lacking?

1 MS. SMITH: I'm sorry. I'm sorry, Your Honor. The
2 foundation for how he knows why the procedure was designed
3 to do what.

4 THE COURT: That will be overruled. Go ahead.

5 THE WITNESS: My initial understanding of this
6 procedure was from reading the presentation that Dr. Haskell
7 gave at, I believe, a National Abortion Federation seminar
8 for management of late second trimester terminations of
9 pregnancy, where he was describing a technique that he
10 utilized between 20 and 26 weeks gestation for emptying a
11 uterus, that he distinguished as an innovative new procedure
12 distinct from the classical D & E procedure. Subsequent to
13 his presentation, there was communication between himself
14 and Dr. McMahon, from California, who had been doing the
15 similar, if not the same, procedure under the term intact D
16 & E, but also under the same circumstances generally later
17 in gestation starting predominantly in the late second
18 trimester.

19 BY MR. COPPOLINO:

20 Q. I want you to take a look at some exhibits in the
21 notebook.

22 MR. COPPOLINO: Your Honor, I want to approach the
23 witness.

24 THE COURT: You may.

25 BY MR. COPPOLINO:

1 Q. Dr. Cook, what exhibit are you looking at there in your
2 notebook?

3 A. I'm looking --

4 Q. Could you give us the exhibit number first, please?

5 A. I'm looking at an exhibit that's numbered Defendant's
6 Exhibit 580.

7 Q. Okay. Could you identify that document, please?

8 A. This is a document from a National Abortion Federation
9 seminar from the fall of 1992, held in Dallas, Texas.

10 Q. What is the title of this document?

11 A. It's entitled Second Trimester Abortion from Every
12 Angle, and it's part of their fall risk management seminar.

13 Q. And if you would look at the second page of the exhibit,
14 what is the title of the document listed on the table of
15 contents that Dr. Haskell prepared?

16 A. Dr. Haskell's presentation is the Second Trimester D &
17 X, 20 Weeks and Beyond.

18 Q. Have you seen this document before?

19 A. I have.

20 Q. When did it first come to your attention?

21 A. I believe when I was asked to provide expert testimony
22 for a Congressional hearing regarding the potential banning
23 of this procedure.

24 Q. Did you summarize for the Court the instances in which
25 you testified before Congress, concerning this procedure?

1 A. I believe I testified twice in front of Congress. Once
2 for a special joint hearing of both the House and Senate
3 Judiciary Committees regarding some recent information that
4 had come to light regarding previously inaccurately
5 disseminated or inaccurate disseminated information
6 regarding medical aspects of the procedure. I believe that
7 was in 1995, or I'm sorry, 1997. And then I was asked most
8 recently, I believe, in March of 2003, to address just a
9 House Subcommittee, which I believe may have been the
10 Subcommittee on the Constitution for the House Judiciary
11 Committee, regarding some further fact finding regarding
12 specific medical concerns with this procedure.

13 Q. How did you come to be asked to testify before Congress
14 on the partial-birth abortion procedure?

15 A. As I can best recollect, there was a period of time
16 where one of the concerns for the procedure was whether or
17 not anesthesia that was administered was the agent that
18 actually caused the death of the fetus, and that statement
19 which was medically incorrect and later admitted by
20 practitioners of the procedure as being incorrect. Caused a
21 great deal of concern to people such as myself who do
22 nonobstetric surgery or procedures on pregnant women at all
23 points in pregnancy, and were concerned that there was a
24 misconception that anesthesia was going to cause a risk to
25 the unborn fetus. So at that time, the current President of

1 the Society of Obstetrical Anesthesia contacted me and asked
2 if I would be willing to answer some questions that were
3 being put to him about other clinical aspects of this
4 procedure that he did not feel he had the expertise to
5 comment on. And he asked if I would assist in that manner
6 that led to my involvement at various different state levels
7 and eventually at a federal level testifying on this issue.

8 Q. All right.

9 MS. SMITH: Your Honor, I have an objection to
10 testimony about the subject matter of fetal anesthesia and
11 whether or whether anesthesia during the abortion causes the
12 death of the fetus.

13 THE COURT: I only understood this as background.
14 The question was how did you get involved and this was
15 background.

16 MS. SMITH: If it's not being offered for the
17 truth, then I would withdraw my objection, not the truth but
18 the background.

19 THE COURT: I didn't understand it to be offered
20 for that burden of proof, and I certainly won't consider it
21 for that purpose. Go ahead.

22 MS. SMITH: Thank you, Your Honor.

23 BY MR. COPPOLINO:

24 Q. Dr. Cook, on your CV, it indicates that you're a member
25 of several organizations, and I would like to just briefly

- 1 identify those. You're a member of the American Medical
2 Association?
- 3 A. That is correct.
- 4 Q. A member of the American College of Obstetricians and
5 Gynecologists?
- 6 A. Correct.
- 7 Q. A member of the Association of Professors of Gynecology
8 and Obstetrics?
- 9 A. Correct.
- 10 Q. A member of the Society of Maternal Fetal Medicine; is
11 that correct?
- 12 A. That is correct.
- 13 Q. A member of the Christian Medical and Dental Society; is
14 that correct?
- 15 A. That is correct.
- 16 Q. Are you also a member of an organization called -- what
17 is -- I believe it's here somewhere, but an organization
18 called the Association of Pro-life OB/GYNs?
- 19 A. Yes, I'm involved with that group as well.
- 20 Q. Now, have you heard of an organization called FACT,
21 Physicians Ad Hoc Coalition for Truth?
- 22 A. I have.
- 23 Q. Were you involved with that organization in some way?
- 24 A. I was.
- 25 Q. Tell the judge what that group was and what it did and

1 how it operated?

2 A. Well, that group was a number of predominantly academic
3 physicians with expertise in the management of complicated
4 pregnancies, although other areas related to complicated
5 pregnancies, or neonates, or young infants, who came
6 together because of our concern at that time about the
7 medical misinformation that was being put forward regarding
8 this procedure. So we wanted to come together and put out
9 some factual and supported documents for educational
10 purposes regarding specifics of this procedure and this
11 procedure alone. It was not our purpose to address any
12 other abortion procedures or any other matters related to
13 anything in the whole realm of discussion about fetuses and
14 fetal rights or anything else along those lines. It was a
15 very narrow scope and focus, which essentially has served
16 its purpose, at this point.

17 Q. Is this FACT organization an existing or political
18 lobbying organization?

19 A. It is not. It was just an organization for trying to
20 put out accurate medical information regarding this
21 procedure and this procedure alone. Doesn't really have an
22 active function at this time.

23 Q. Does it even have an office?

24 A. No, it never had an office really.

25 Q. Now, you testified, you said you testified before

1 Congress. You testified live before Congress on two
2 occasions?

3 A. I did.

4 Q. All right. And at the time of your Congressional
5 testimony, what assertions regarding -- were being made
6 regarding the maternal health need for the partial-birth
7 abortion procedure that you were responding to?

8 A. Well, there were a variety of evolutions of the medical
9 -- what I refer to as medical misinformation regarding this
10 procedure. Initially, there was not even an acknowledgment
11 the procedure was ever done. Then there was the assertion
12 that it was done in a very rare instance, maybe a couple of
13 hundred times a year. Then there was the assertion that the
14 anesthesia was involved in causing the loss of the baby.
15 Then there was the assertion that these rarely performed
16 procedures were only done on moms with severe medical
17 conditions or babies with severe fetal anomalies. Those
18 were some of the initial assertions that we felt the need to
19 correct, and essentially did that, by bringing together a
20 group of experts in this area. And I think at its peak,
21 there were something on the order of 400 specialists in
22 dealing with complicated pregnancies at some level that were
23 involved in this group.

24 Q. Now, getting back to Dr. Haskell's paper, Exhibit 580,
25 you reviewed this document prior to your Congressional

1 testimony?

2 A. I did.

3 Q. And did you review this document, in preparing your
4 expert opinion in this case?

5 A. I'm not certain that I reviewed it just prior to my
6 expert opinion in this case, just because I was very
7 familiar with the document over the years.

8 Q. Take a look at the first sentence on page 127. It says
9 under the introduction the surgical method described in this
10 paper differs from classic D & E in that it does not rely on
11 dismemberment to remove the fetus. Doctor, do you agree
12 with that sentence?

13 A. I do.

14 Q. The second sentence or the second paragraph indicates
15 that the author has coined the term dilation and extraction,
16 or D & X, to distinguish it from dismemberment type D & Es.
17 And you understand that the procedure Dr. Haskell describes
18 in his paper is a D & X?

19 A. I do.

20 Q. Take a look on page 128, next page. The third segment
21 down. There is a sentence which reads -- well, actually
22 second sentence. Classic D & E is accomplished by
23 dismembering the fetus inside the uterus with instruments
24 and removing the pieces through an adequately dilated
25 cervix. Do you agree with that sentence?

1 A. I do.

2 Q. The next sentence says, however, most surgeons find
3 dismemberment at 20 weeks and beyond to be difficult, due to
4 tough necessary of the fetal the issues at this stage of the
5 development. Do you see that sentence?

6 A. I do.

7 Q. Do you agree with that sentence?

8 A. I do agree with that sentence.

9 Q. Why is that sentence correct?

10 A. Well, because it's true that it is more difficult to
11 disarticulate or dismember a fetus beyond 20 weeks, unless
12 the fetus has not been living for some period of time, and
13 there is some autolysis or degeneration that is occurring or
14 there has been some pretreatment of the fetus to make it
15 easier to dismember or disarticulate.

16 Q. Further down, under the caption patient selection, there
17 is the first sentence which indicates the author routinely
18 performs this procedure on all patients 20 through 24 weeks,
19 LMP, with certain exceptions. The author performs the
20 procedure on selected patients 25 through 26 weeks, LMP. Do
21 you see those sentences, Doctor?

22 A. I do see those sentences.

23 Q. And do you have an understanding that the D & X
24 procedure is an abortion procedure designed to be used late
25 in the second trimester after 20 weeks?

1 A. Yes, late in the second trimester and into the early
2 third trimester.

3 Q. And why do you have that understanding?

4 A. Well, that what was described by both Dr. Haskell and
5 Dr. McMahon, both of whom have gone on the record with their
6 experiences with this procedure.

7 Q. If you take a look at the next page of the Exhibit 580,
8 this is -- there is a page number at the top, 129, I
9 believe. Is there a page number at the top of 129.

10 A. There is a page number at the top of my copy?

11 Q. The first page describes the dilation and extraction
12 procedures taking place over three days, and in a nutshell,
13 can be described as follows. Why don't you read the list of
14 elements of the procedure, for the record, Doctor?

15 A. The first element says dilation. The second element in
16 bold type with capital letters says more dilation. The
17 third element says real time ultrasound visualization. The
18 fourth element says version, which means turning the baby
19 parenthetically as needed, or as I read, if required. The
20 next element is intact extraction. The next element is
21 fetal skull decompression. And the next element is removal
22 followed by clean up and then finally recovery.

23 Q. Doctor, is it your understanding that these are the
24 elements of the D & X procedure as described by Dr. Haskell?

25 A. That is my understanding.

1 Q. And when you testified before Congress, were you
2 addressing this particular abortion procedure?

3 A. I was addressing this procedure and the procedure as
4 described by Dr. McMahon.

5 Q. Okay. And you have an understanding that these steps
6 described by Dr. Haskell were the general steps in a D & X
7 procedure?

8 A. That is correct.

9 Q. Do you understand there might be some variation in the
10 precise procedures used in a D & X or partial-birth
11 abortion?

12 A. Yes, there may be some variation, specifically, in how
13 the cervix is dilated, how much the cervix is dilated, and
14 also in how the skull is decompressed.

15 Q. To your understanding, does the D & X or partial-birth
16 abortion necessarily involve an instrumental conversion of
17 the fetus to the breech position?

18 A. It doesn't necessarily involve it, if the fetus is
19 already presenting in a breech presentation.

20 Q. To your understanding, does the D & X procedure or
21 partial-birth abortion procedure, necessarily involve
22 puncturing the head of the fetus with a sharp object in
23 order to collapse the skull?

24 A. It doesn't necessarily involve that. It does involve
25 some method of decompressing the skull, which could include

1 external compression or could include internal evacuation.

2 Q. Doctor, you were asked by the Government to offer
3 opinion testimony in connection with the partial-birth
4 abortion procedure; is that correct?

5 A. That is correct.

6 Q. I would just like you to -- I would like you to identify
7 the topics of your opinion and ask you to briefly state what
8 your opinion is, and then we are going to discuss your
9 opinions in further detail. And the first question I have
10 is do you ever an opinion as to whether the partial-birth
11 abortion procedure is ever medically necessary to promote
12 the health interests of mothers facing the kind of
13 complicated high risk pregnancies that you deal with. Do
14 you have an opinion on that?

15 THE COURT: Now, pardon me, Mr. Coppolino. I don't
16 mean to be picky with you, but are you specifically limiting
17 that opinion to the high risk pregnancies that this doctor
18 deals with? I understood you to do so.

19 MR. COPPOLINO: Let me rephrase it perhaps a little
20 more broadly. I think we are going towards the same end,
21 Your Honor.

22 THE COURT: I'm not trying to be cute with you. If
23 you intended that, fine. If you intended it more broadly --

24 MR. COPPOLINO: I'll state it more broadly. It may
25 well be a distinction without a difference, because I think

1 he deals with every particular high risk pregnancy but we'll
2 establish that.

3 BY MR. COPPOLINO:

4 Q. Do you have an opinion as to whether the partial-birth
5 abortion procedure is ever medically necessary to deal with
6 the health interests of mothers facing high risk
7 pregnancies?

8 A. I do have an opinion on that matter.

9 Q. What is your opinion?

10 A. My opinion is that it is never medically necessary, in
11 order to safely evacuate a uterus, and it is my opinion that
12 it is not even necessarily the preferred method. That it
13 may entail unforeseen and unnecessary risk both immediately
14 and in the future, and I feel that this is the situation,
15 whether we are dealing with a healthy mother and a healthy
16 fetus, or a sick mother and/or a sick fetus.

17 Q. And do you have an opinion, Doctor, as to whether the
18 partial-birth abortion procedure presents risks to the woman
19 undergoing it as compared to other methods of termination of
20 pregnancy?

21 A. Yes. I believe that the various elements as described
22 by practitioners of this procedure include elements that I
23 would say have an unacceptable either immediate or potential
24 later risk associated with them.

25 Q. All right. Let's take those one at a time, Doctor. Why

1 are you of the view that partial-birth abortion is never
2 medically necessary to care for women with complicated
3 pregnancies?

4 A. Well, it's my opinion that is the situation, because
5 this procedure doesn't add anything to existing medical
6 options that are already safely and readily available for
7 the mother for ending her pregnancy or evacuating her
8 uterus. In addition, they involve some elements that I
9 think have potential increased risks that are not necessary,
10 and I also don't see that in any way facilitates our ability
11 to empty a uterus, in that it is still a multiple-day
12 procedure, in less than an optimally monitored situation.
13 And I think it's an in humane way to deliver a fetus.

14 Q. How long have you been providing care to women with
15 complicated pregnancies, Doctor?

16 A. Well, I started taking care of obstetrical-type patients
17 in the late 80s, and started seeing complicated pregnancies
18 from that first day. But I have been treating more
19 exclusively complicated pregnancies since 1993.

20 Q. Have you ever experienced the clinical situation in
21 which the partial-birth abortion procedure has ever been, in
22 your view, required or necessary?

23 A. I have not.

24 Q. Now, but you testified earlier that it is sometimes
25 necessary to terminate a pregnancy for maternal health

1 reasons; is that correct?

2 A. That is correct.

3 Q. First of all, is that common?

4 A. It is not very common, even in our practice where we see
5 only complicated pregnancies.

6 Q. Why isn't it common?

7 A. Well, because, most times, mother's can be adequately
8 supported through their pregnancy or we can at least get
9 them to the point where the fetus has the chance for
10 survival, and then we can help her to deliver or separate
11 herself from her fetus so that her recovery process can be
12 initiated, and the fetus can still have a reasonable chance
13 for survival.

14 Q. What conditions have you seen or treated in a pregnant
15 woman that you determined were prior to the pregnancy be
16 terminated -- prior to -- let's just leave it there, that
17 you require the pregnancy be terminated?

18 A. Well, most commonly, they would be situations that are
19 unique to the pregnancy such as an infection or heavy
20 bleeding with the pregnancy. Or they may be elements of an
21 exacerbation or worsening of an underlying preexisting
22 medical condition such as hypertension, heart disease,
23 diabetes, or other unique elements of pregnancy such as
24 severe pre-eclampsia or some of its variants such as HELLP
25 Syndrome and things of that nature.

1 Q. Would you explain why it may be necessary to terminate a
2 pregnancy prematurely because of these conditions?

3 A. Most of those conditions are either unique to pregnancy
4 or exacerbated by the pregnancy. So in order to facilitate
5 the mother's recovery from that situation, we need to work
6 toward ending the pregnancy or delivering the fetus. It
7 doesn't require that we destroy the fetus. It just requires
8 that the fetus and the mother are separated from one
9 another, and that the placenta is delivered, in order to
10 facilitate the recovery process for the mother.

11 Q. Now, when you need to terminate a pregnancy for one of
12 these maternal health conditions, do you proceed differently
13 depending on whether the fetus is pre or post-viable?

14 A. We do. If it is a fetus that is beyond the period of
15 time where we think the baby has a reasonable chance for
16 survival, then we will be doing more continual fetal
17 monitoring, and we will attempt to deliver in a manner that
18 is both safe for the mother and least traumatic for the
19 fetus. If it's a situation where the fetus has a lethal
20 fetal anomaly or is pre-viable, we may not be continually
21 monitoring the fetus, and we may not be considering as much
22 the fetal contributions to the delivery method or route as
23 much as we would consider the maternal implications of those
24 methods.

25 Q. Okay. So specifically for a fetus that you've

1 determined has a chance to survive outside the mother, how
2 do you approach a pregnancy termination in that
3 circumstance?

4 A. Well, it is always our preference to try to deliver
5 vaginally by utilizing, again, a normal laboring process
6 because it's most physiologic and generally best tolerated
7 by the mother. And so that's how we would generally
8 proceed. In some situations where we need to deliver
9 prematurely, the fetus may be also experiencing
10 complications such as a situation of pre-eclampsia where the
11 baby may not be growing adequately or getting adequate
12 nutrition; where the baby may not tolerate a vaginal
13 delivery. In that situation, we would then do an operative
14 delivery such as a cesarean delivery in order to facilitate
15 maternal recovery and to allow the least traumatic method of
16 delivery of the fetus.

17 Q. And how do you proceed differently for a fetus that
18 you've determined has no chance of survival outside the
19 mother?

20 A. Well, then we are less concerned about the fetal
21 tolerance of labor in the vaginal delivery process
22 specifically. So we would put a greater emphasis on trying
23 to deliver vaginally, if there aren't fetal concerns
24 involved.

25 Q. Doctor, could you explain how you evaluate a maternal

1 health condition during pregnancy in order to determine
2 whether and when the pregnancy should end?

3 A. Well, that's obviously a complicated assessment that
4 includes a variety of physical exam and history collection.
5 It involves certain laboratory tests and radiographic
6 studies. It generally involves a consultation of some of
7 our other subspecialty colleagues, such as the neonatal
8 physicians or potentially other subspecialists such as
9 cardiologists, oncologists, people of that nature.

10 Q. And this might be too general a question, but let's give
11 it a shot. When does something move from being merely a
12 health problem that the woman is facing during pregnancy to
13 something that you consider to be potentially more serious
14 that could actually cause serious damage to her health or
15 may even jeopardize her life?

16 A. Yes. That is a good question. Generally, the situation
17 that we would recommend that the pregnancy needs to be
18 delivered would be a situation where we feel the fetus is
19 either attained a gestational age where survival is very
20 likely and the fetus would do well, and we won't accept any
21 level of abnormality in the pregnancy. Or in the earlier
22 gestational ages, if we recommend early delivery, it's
23 because we feel we can no longer control the underlying
24 medical or surgical condition with the treatment modalities
25 that are available to us at that time.

1 Q. Is it the case, Doctor, that if the mother was -- if the
2 fetus was close to viability but not yet there, if you had
3 an -- if you were able to, consistent with her health, would
4 you try to stabilize her condition or treat her condition in
5 order to buy time to get the fetus past viability?

6 A. We would, mostly at the behest of the mothers who are
7 willing to do almost anything they can to facilitate the
8 safe delivery of their fetus. We would never put a mother
9 in jeopardy to enhance a good fetal outcome, but it is
10 commonly the case where we can support a mother through some
11 critical weeks of the pregnancy, in order to get a good
12 outcome for both the mother and the fetus, because both of
13 them are our patients.

14 Q. Now, in dealing with a situation where you have a
15 pregnant woman with a serious medical condition, and you're
16 facing the need to possibly terminate the pregnancy early, I
17 would like you to give the Court a sentence of how often do
18 you have to do this prior to viability, versus how often are
19 you able to get the mother past viability and deliver both
20 -- and deliver the baby successfully?

21 A. Well, it has become much easier in the last few years
22 for us to be able to attain a level of viability, because
23 the viability line keeps shifting backwards. And even
24 during the course of my career, there has been a marked
25 improvement in survival at 23, 24, and 25, and 26 weeks

1 gestation. So it's easier for us to reach that level. In
2 addition, our medical technology has grown to the point
3 where we can support very complicated pregnancies for longer
4 periods of time than we could in the past. Complications
5 such as underlying malignancy, cardiovascular disease, what
6 have you. So it's not very often that we truly have to
7 deliver a baby pre-viability because of severity of a
8 mother's condition. It does come up on a regular basis in
9 our practice because of the kind of patients we deal with,
10 but it doesn't come up as frequently as it used to.

11 Q. Um-hm. When a pregnancy has to be ended prematurely,
12 because of a maternal health condition of the kind that you
13 treat, is it ever necessary to take a destructive act
14 against the fetus directly, in order to protect the health
15 interests of the mother?

16 A. No, all that is required for recovery of the mother is
17 for separation of the fetus and placenta from her system so
18 that she can start the recovery process. There is nothing
19 inherent in the destruction of the fetus that starts to
20 facilitate that process.

21 Q. But I take it you also want to utilize the safest method
22 of termination possible in the circumstance where you have
23 to terminate the fetus pre-viability?

24 A. Yes, in the world of maternal fetal medicine, we, of
25 course, have both as patients, both the mother and the

1 fetus. And our goal is always to have an optimal outcome
2 for both. In the rare situation where we feel we cannot
3 optimize the fetal outcome, we would never jeopardize
4 maternal health for that reason, and her health concerns
5 would always be the predominant concern at that point. So
6 we would then proceed to deliver her in the method that we
7 think is safest and most well tolerated by her, but
8 frequently, we can achieve it -- a goal where we can do a
9 delivery process that is optimal for both the mother and the
10 fetus.

11 Q. In your opinion, Doctor, would there ever be a medical
12 need to use the partial-birth abortion or D & X procedure to
13 terminate a pregnancy, specifically because of a particular
14 type of maternal health condition that the woman has during
15 a pregnancy?

16 A. I know of no such condition, and we have been discussing
17 this same issue for many years, and I have never heard
18 anyone propose a condition, I think, that would warrant that
19 situation.

20 Q. I'm going to give you -- I'm going to talk about some
21 specific maternal health conditions, Doctor. You mentioned,
22 I believe, a condition called pre-eclampsia, and if you
23 didn't, could you at least tell us what is pre-eclampsia?

24 A. Pre-eclampsia is a medical condition unique to human
25 pregnancy, generally starting after 20 weeks gestation or

1 actually, by definition, starting after 20 weeks gestation
2 that usually involves high blood pressure or hypertension in
3 the mother, as well as proteinuria or protein in her urine,
4 and may involve other clinical signs such as edema or as
5 welling as well.

6 Q. Doctor, could pre-eclampsia ever evolve to a point that
7 it could be an indication to terminate a pregnancy?

8 A. That is correct.

9 Q. Could that ever occur, prior to the point at which the
10 fetus is viable?

11 A. Yes, this is true.

12 Q. Okay. And in your opinion, would the partial-birth
13 abortion D & X procedure ever be necessary to terminate a
14 pregnancy because of a severe threatening pre-eclampsia
15 condition?

16 A. It would not.

17 Q. And why not?

18 A. Because there are other better options available that,
19 again, are readily accessible to most practitioners that
20 would allow a safer completion of the delivery process,
21 while still maintaining the option for the best outcome for
22 the fetus.

23 Q. How would you proceed to deal -- to terminate a
24 pregnancy for a woman suffering from pre-eclampsia to such
25 an extent you felt the pregnancy had to be terminated before

1 viability?

2 A. Well, in the situation that you're speaking of, it would
3 be for pregnancies between 20 and 23 weeks gestation. And
4 most commonly, what we would do, because you are so near the
5 point of viability or peri-viable, we would do our best to
6 support the mother during those critical weeks while
7 administering certain medications to her that would improve
8 the outcome for the fetus, and do our best to try to get her
9 to the point of viability, and then proceed with either a
10 vaginal delivery or cesarean delivery, based upon the
11 clinical scenario. If it's a situation where the mother is
12 rapidly deteriorating and we are not able to control the
13 situation, and she's still less than 23 weeks, we generally
14 would then proceed with a medical induction of labor with
15 careful monitoring of the mother's health status.

16 Q. At your opinion, in that stage of gestation you just
17 described for this condition between 20 and 23 weeks, and
18 for this condition, pre-eclampsia, would a surgical
19 termination of the pregnancy be indicated?

20 A. No. I would be very concerned about that. One of the
21 Hallmarks of pre-eclampsia is something that has a
22 long-term, but it's a microangiopathic process which means
23 it's an abnormality of the vascular system which
24 predisposes, as part of that, to low platelets or a problem
25 with adequate clotting of blood. Also a propensity to

1 having more bleeding, and there are other things that happen
2 in pre-eclampsia that make a woman less tolerable of
3 bleeding complications specifically. So I would be very
4 concerned about doing a surgical evacuation of a uterus in
5 the setting of severe pre-eclampsia in that 20 to 23-week
6 range.

7 Q. All right, Doctor. I think you may have mentioned in
8 your expert report another condition called renal disease.
9 Could you tell us what types of -- what a renal disease is
10 in the context of complicated pregnancy?

11 A. Well, renal disease refers to disease of the kidney,
12 which may either be the primary disease focus or it may be a
13 secondary manifestation of another underlying disease
14 process such as diabetes or hypertension. But if we have
15 the situation where the woman has a deteriorating renal
16 condition that we feel is secondary to the pregnancy, then
17 we are in the same sort of situation we described with
18 pre-eclampsia, trying first to achieve viability and
19 maximize the good fetal outcome. And in the situation where
20 that is not possible, and her health status is rapidly
21 deteriorating despite our best efforts, then we would
22 recommend trying to proceed with a physiologic a process as
23 possible, which would be a medical induction of labor.

24 Q. So is it correct to say, Doctor, a renal condition could
25 deteriorate to the point where it might be an indication for

1 termination of pregnancy, prior to fetal viability?

2 A. Yes, that would be the case.

3 Q. In that case, Doctor, in your opinion, would the
4 partial-birth abortion D & X procedure ever be necessary to
5 terminate a pregnancy, specifically because of the nature of
6 the renal disease?

7 A. It would not.

8 Q. Why not?

9 A. Again, because there are other safer and readily
10 available options that are present. In addition, a woman
11 that has an underlying severe renal condition is also not a
12 woman who can tolerate significant blood loss, loss of
13 fluid, need for fluid replacement, and other situations that
14 would be I think just too high a risk to proceed with a
15 surgical evacuation in the late second trimester.

16 Q. All right, Doctor. Now, another category of potential
17 complications in a pregnancy is cardiac disease as listed in
18 your report. I want to ask you about that. What types of
19 cardiac diseases would so complicate a pregnancy that there
20 would be a need to terminate the pregnancy, prior to the due
21 date?

22 A. Well, we see women with a large number of cardiac
23 conditions, mostly because the other areas of medical
24 management have improved so much. And so we see many more
25 children born with congenital heart disease, repaired or

1 nonrepaired. They are now surviving to child bearing ages.
2 We see women having children later in age than before. So
3 we see women that are pregnant after having prior myocardial
4 infarctions or heart attacks. We see women with certain
5 types of heart rhythm problems that could not be controlled
6 in years past that are now controlled, and they can achieve
7 not only a child bearing age, but a health status that would
8 allow pregnancy. So we see a number of cardiac conditions,
9 but the number that would actually necessitate an early
10 delivery pre-viability is relatively small; includes
11 predominantly those people that have significant pulmonary
12 hypertension or shunting of blood in the opposite direction
13 of its usual shunting, so that they are having deoxygenation
14 problems or problems delivering adequate oxygen to their
15 issues. There are also other conditions such as the
16 condition of the dilation of the aorta as part of something
17 called Marfan's Syndrome. That if it reaches a certain
18 critical level, dilation is at risk for aortic dissection or
19 disruption, which would be life threatening to the mother.
20 These are all some specific conditions that may warrant
21 early termination of pregnancy.

22 Q. And let me just run through those. The pulmonary
23 condition, would that -- could that be an indication for
24 terminating the pregnancy prior to viability?

25 A. Yes, it could be.

1 Q. And the shunting of the blood condition that you
2 described, could that also be a condition for terminating
3 the pregnancy prior to viability?

4 A. Yes.

5 Q. Marfan's Syndrome, could that be a indication for
6 terminating the pregnancy prior to viability?

7 A. If it involved significant aortic dilation.

8 Q. Let's take them one at a time again. Well, let me just
9 -- I'm going to ask you a single question and ask you to
10 address those three conditions. In your opinion, would the
11 partial-birth abortion or D & X procedure ever be medically
12 necessary to terminate a pregnancy for those three cardiac
13 conditions you just mentioned, the pulmonary condition, the
14 shunting condition, and the Marfan's Syndrome?

15 A. No, I don't believe it is ever medically necessary in
16 any of those conditions, nor do I believe it's even the
17 preferable way to go or even an equivalent option. I'm
18 concerned about doing, again, a surgical procedure late in
19 the second trimester where the risk for perforation,
20 bleeding, infection, and other complications that would not
21 be well tolerated by a mother with those sort of conditions
22 would be just unacceptable to me. In addition, we also want
23 to carefully manage and monitor even things as simple as her
24 pain sensation and her release of certain types of
25 endogenous, or within her own system, hormone stress

1 responses that may further complicate her underlying cardiac
2 conditions. So we want to proceed in a method that is as
3 physiologic as normal, as controlled and as gentle a process
4 as possible, specifically in the area of complicated
5 cardiovascular disease.

6 Q. Is it the case, however, Doctor, that an induction
7 procedure could impose some physiological stress on a woman
8 undergoing it?

9 A. Absolutely. We generally have these patients meet with
10 our anesthesia colleagues prior to proceeding with these
11 procedures, and there are specific steps that we take using
12 issues such as epidural anesthesia, careful cardiovascular
13 monitoring, careful evaluation of input and output in the
14 form of fluids for the patient, all to maintain as normal as
15 physiologic and as gentle a process as possible, and that
16 can be done much better in a controlled, monitored medical
17 induction, you know, procedure.

18 Q. Why wouldn't a surgical termination of that abortion for
19 pulmonary heart condition, or shunting condition, or the
20 Marfan's Syndrome be a procedure that would be less
21 stressful on the woman and, therefore, potentially more
22 favorable given her heart condition?

23 A. Well, the gestational ages at which we are discussing in
24 this later second trimester are much more difficult
25 procedures to do a surgical evacuation on; do involve

1 greater risk for, again, bleeding, perforation, infection
2 and other things that would not be well tolerated by a
3 mother with these underlying conditions. In addition, there
4 are some really practical issues related to having a woman
5 who is awake and alert, yet is receiving adequate pain
6 control, in a patient with an underlying cardiac condition.
7 Meaning by that that they want her to be able to report to
8 us if she's having chest pain, shortness of breath, other
9 symptoms that need to be addressed. Things you can't do if
10 a patient is intubated and not communicating with you.

11 Q. What is peripartum cardiomyopathy?

12 A. It refers to a condition that seems to be exacerbated if
13 not caused alone by the pregnancy, the hallmark of which is
14 a dilated heart with less than adequate contractility or
15 function. So a woman goes into a heart failure type of
16 situation most commonly diagnosed in the immediate
17 post-partum period, meaning after delivery.

18 Q. I see. So is that a condition that typically implicates
19 the need to terminate a pregnancy prior to term?

20 A. It could. It oftentimes doesn't present itself until
21 after delivery. Although, there are underlying
22 cardiomyopathies caused by other situations such as
23 hypertension, and illicit drug use, and things of that
24 nature, which could potentially indicate the need for an
25 early termination of pregnancy, if it was a preexisting

1 condition.

2 Q. And if that indication arose where there was a need to
3 terminate the pregnancy prior to viability for
4 cardiomyopathy condition, in your opinion, would
5 partial-birth abortion D & X procedure ever be necessary to
6 do that?

7 A. Again, the optimal method would be utilizing something
8 that would have a lower risk for complication, a greater
9 ability for monitoring and assessment, and something that
10 would utilize a variation on a normal physiologic process.

11 Q. And in that circumstance, for the cardiomyopathy
12 condition, you would, again, proceed by medical induction?

13 A. I would.

14 Q. Doctor, what is help syndrome, H-E-L-L-P. Is that the
15 correct acronym?

16 A. That is correct.

17 Q. Would you tell Court what that is?

18 A. It's an acronym for a clinical spectrum that basically
19 is a variant of severe pre-eclampsia, the hallmark of which
20 is hemolysis or destruction of red blood cells, and then
21 elevated liver enzymes and low platelets.

22 Q. Is it a potentially serious health condition for a
23 pregnant woman?

24 A. It is a potentially life threatening condition, although
25 reversible by the process of continuing to complete her

1 delivery.

2 Q. Have you treated a pregnant woman with this condition?

3 A. Many times.

4 Q. By the way, the other conditions we have talked about,
5 the cardiac conditions, the renal conditions, have you
6 treated women with the conditions you have discussed this
7 morning?

8 A. I have treated women with all those conditions.

9 Q. Severe pre-eclampsia as well?

10 A. Yes, that's a very common referral to our practice.

11 Q. All right. Now, could HELLP Syndrome -- I believe you
12 said it could be an indication for termination of pregnancy
13 prior to viability?

14 A. This is correct.

15 Q. In your opinion, would the partial-birth abortion D & X
16 procedure ever be necessary to terminate a pregnancy with
17 this condition?

18 A. It would not.

19 Q. And why not?

20 A. Again, for very similar reasons to the other situations
21 we discussed. That there are safer readily available
22 options. There are better options, I think, in order to
23 maintain a normal, you know, variant of a physiologic
24 process. Specifically with HELLP Syndrome, the platelet
25 counts are quite low and the risk for bleeding complications

1 is quite high. So anything that we think would potentially
2 increase the risk for a bleeding complication, perforation,
3 hemorrhage, what have you, would be something we would want
4 to avoid at all costs.

5 Q. Doctor, what about a patient with leukemia? Have you
6 ever -- first of all, have you ever treated a pregnant woman
7 who had leukemia?

8 A. I have treated pregnant women with active lymphoma
9 during pregnancy, and I have treated women who had leukemia
10 in the past, but I'm not sure I have taken care of a woman
11 who had active leukemia during her pregnancy.

12 Q. Would leukemia potentially be an indication for early
13 termination of pregnancy?

14 A. Very rarely, but potentially, if there is a new
15 diagnosis of leukemia, leukemia is treated most commonly by
16 a combination of certain therapeutic agents, some of which
17 can be modified and still given during the course of the
18 pregnancy. Some of which would not be well tolerated during
19 the pregnancy. So in a rare instance where they feel the
20 best treatment is something that the fetus would not
21 tolerate and they feel the need to institute therapy
22 immediately, then it could arise. But I would think that
23 that would be, you know, a very rare situation.

24 Q. I should have asked you for the uninitiated -- What is
25 leukemia.

1 A. Leukemia is a malignancy of the blood system,
2 specifically the white blood system, where there is an over
3 production of abnormal or malignant white blood cells. The
4 treatment of which is predominantly in the form of medical
5 management or chemotherapy, often times with a combination
6 of chemotherapeutic agents.

7 Q. In those circumstances where it might be an indication
8 for early termination of a pregnancy, because of the need to
9 provide the woman the medication necessary to treat that
10 condition, in your opinion, would the partial-birth abortion
11 D & X procedure ever be medically necessary to terminate
12 that pregnancy?

13 A. It would not.

14 Q. And why not?

15 A. Again, for some of the same reasons; other safer
16 alternatives available. It -- also leukemia can have, as
17 part of its manifestation, a replacement of other blood
18 products lines, specifically platelets. So they can have
19 also very low platelets. And in addition, their blood
20 counts can be depressed significantly, if they are receiving
21 chemotherapy. So those are reasons that we would also want
22 to avoid specifically anything that we think would increase
23 the risk for hemorrhage, bleeding and perforation.

24 Q. Those are reasons you would want to avoid surgical
25 termination?

1 A. This is correct.

2 Q. Okay. What is it about the surgical process that would
3 exacerbate those conditions?

4 A. Again, in these peri-viable periods of time 20 to 23
5 weeks, the D & E is a much more complicated procedure, and
6 larger fetus, more need for manipulation, more potential for
7 perforation, bleeding and hemorrhage.

8 Q. Doctor, what is sepsis?

9 A. Sepsis is a clinical state in which there is an
10 infection that has involved the body systemically that is
11 moved from a local infection to being a more global or
12 systemic infection.

13 Q. Could a women have an infection of her uterus that would
14 be so severe in her pregnancy that an early termination,
15 prior to viability, would be indicated?

16 A. Yes.

17 Q. Have you ever seen or treated such a condition?

18 A. I have.

19 Q. All right. In those instances where a woman has a
20 severely infected uterus early in her pregnancy, would a
21 partial-birth abortion procedure ever be necessary, in your
22 opinion, to terminate that pregnancy?

23 A. It would not be.

24 Q. Is there anything specific about the infection condition
25 that you would think a surgical termination, in particular,

1 would be contraindicated?

2 A. Yes. In the situation where we are looking at a severe
3 infection, we oftentimes are trying to intervene before
4 infection continues or migrates or extends beyond the uterus
5 and its contents. So if we have a severe infection limited
6 to the uterus, and it is not responding to our therapies, we
7 would like to try to empty the uterus of that infection as
8 part of the treatment, before it gets to the point where
9 there is a systemic infection that is truly life threatening
10 for the mother. One of the concerns about a surgical method
11 is that it would potentially increase the risk for seeding
12 or allowing extension of infection into the general maternal
13 vascular system, because of the instrumentation involved,
14 and the risk, again, for bleeding and perforation. So we
15 would not like that contained infection to have access
16 either to her intraabdominal area, peritoneal cavity or to
17 her vascular system.

18 Q. Is that one of the reasons why you would proceed by
19 medical induction to terminate a pregnancy of a woman who
20 had severe sepsis?

21 A. Yes. In addition, the body usually responds to a
22 localized infection by trying to expel the uterine contents
23 on their own. So, generally, those people are very easy to
24 get delivered, often times with very minimal assistance,
25 medically.

1 Q. What about other types of cancer? Let's just say breast
2 cancer. Have you ever treated a woman who is pregnant and
3 has breast cancer?

4 A. Yes, I have.

5 Q. Might it be necessary to terminate a pregnancy of a
6 woman who has breast cancer, prior to her due date?

7 A. Yes. That is possible. I have treated several women
8 faced with that decision where they were diagnosed in the
9 first trimester, some of which opted to end their pregnancy
10 and start their therapies, some of which opted to continue
11 their pregnancy with a modified therapy or delayed therapy.

12 Q. What specifically might be the indication for a
13 termination of a pregnancy for a woman who has breast
14 cancer. Is it the medication that she needs?

15 A. Generally, it's the medication. The pregnancy process,
16 in and of itself, doesn't necessarily, to our knowledge,
17 exacerbate the malignancy, or change the long-term course of
18 the malignancy, but it does limit some of our treatment
19 options. Whether it's radiation therapy or chemotherapy.

20 Q. In your opinion, Doctor, in those instances in which it
21 may be necessary to terminate a pregnancy because of the
22 treatment needed for breast cancer, would a partial-birth
23 abortion or D & X procedure ever be necessary, specifically
24 because of the breast cancer and the need to treat it with
25 medication?

1 A. No, I do not believe it would ever be necessary.

2 Q. And that is because?

3 A. Well, many of the same reasons women with malignancies
4 of any sort do have, as part of their disease process,
5 commonly severe anemia, and may also have very low platelets
6 and other conditions that, again, would not allow a woman to
7 tolerate a surgical procedure, particularly a riskier
8 surgical procedure, meaning that done at later gestational
9 ages.

10 Q. I would like to ask you about at least one more, Doctor,
11 and that is have you ever treated a woman who was pregnant
12 that has had a prior scar on her uterus?

13 A. Many times.

14 Q. And what's the cause of that? In your experience, what
15 has been the cause of the experience where a woman has a
16 scar on her uterus?

17 A. A vast majority of the time is because after prior
18 cesarean delivery, a hysterotomy, although we see patients
19 who have this surgical incisions on their uterus, such as
20 removing a uterine fibroid; a procedure called myomectomy.

21 Q. Have you ever faced a situation where it was necessary
22 to terminate a pregnancy early, a prematurely, let's say --
23 pre or post-viability, where a woman has had a scar on her
24 uterus?

25 A. Yes, I have.

1 Q. Okay. Now taking it post-viability, how would you
2 proceed?

3 A. Generally, we would proceed in the same fashion. We
4 would, if there was no scar on the uterus, with the
5 exception that we may choose to use more cervical
6 preparation before the medical induction, and we would
7 probably avoid certain specific types of Prostaglandins in
8 that situation.

9 Q. Would a prior scar on the uterus ever be a
10 contraindication for a medical induction?

11 A. No, not an absolute contraindication.

12 Q. Would it ever be a relative contraindication for
13 induction, a prior scar on the uterus?

14 A. It could be, depending on what the situation is.
15 Specifically, if a patient has had a known prior uterine
16 rupture or more extensive involvement in the scar on the
17 uterus.

18 Q. Does a prior scar on the uterus increase the risk for
19 uterine rupture, during a medical induction?

20 A. Well, a prior scar on the uterus increases your risk for
21 uterine rupture, whether you're in spontaneous labor or
22 whether you're having a medical induction.

23 Q. And how do you manage that risk when you're performing a
24 pregnancy termination, either pre or post-viability?

25 A. Well, generally if they have had one prior low

1 transverse cesarean section incision, which is the vast
2 majority of incisions, their risk for uterine rupture is
3 about half a percent or one out of 200. So we believe that
4 amount of risk is an acceptable risk, in a situation where
5 we were carefully monitoring the mother and had the
6 capability to proceed to other surgical procedures, if
7 necessary, if she does experience a complication.

8 Q. Would it be safer, in the case of a woman having a prior
9 uterine scar, to perform a surgical termination in order to
10 end the pregnancy?

11 A. One of the difficulties of having a prior scarred uterus
12 is that you have inherent weakness in the integrity of the
13 uterine wall, which would mean you would be prone for
14 uterine perforation, which is known risk of surgical
15 evacuation of the uterus. So I don't believe necessarily
16 that a surgical procedure allows you to avoid the risk of
17 uterine perforation or uterine rupture.

18 Q. Prior to fetal viability, if a woman had a scar on her
19 uterus, would there be any point at which you believe a D &
20 E termination would be an acceptable alternative?

21 A. I think it would be in a situation where you have made a
22 reasonable attempt to try to induce labor with standard
23 Prostaglandins, and in lieu of maybe using excessively
24 higher doses or other types of Prostaglandins, you may elect
25 to do a surgical evacuation in a controlled setting.

1 MR. COPPOLINO: Your Honor, this would be a good
2 breaking point, if you would like to take your morning
3 break.

4 THE COURT: That will be fine. Give me a sense of
5 how much longer you'll be with the doctor.

6 MR. COPPOLINO: I'm certainly going to try to
7 finish my direct examination by the lunch break, Your Honor.

8 THE COURT: The only reason that I ask, I have a
9 very long telephone conference that I have scheduled for
10 over the noon hour that I cannot reschedule, so we'll break
11 promptly at noon. And I don't want to -- just keep that in
12 mind. So if you come to a good breaking point either in
13 your direct or in the cross, feel free to tell me, because
14 I'm not going to go beyond noon today.

15 MR. COPPOLINO: Fine, Your Honor. If I'm not done
16 at noon, I expect I would not have much into the afternoon
17 session. And this is our only witness today, so I
18 anticipate that would be sufficient time to finish the
19 witness.

20 THE COURT: I'm not asking you to vamp, but just
21 tell me when we get close to noon, if we are at a good
22 breaking point, and we'll do that then, so I don't interfere
23 with your examination. We'll stand in recess. Doctor, you
24 may stand down, sir.

25 (Recess from 10:47 to 11:08 a.m.; all parties present).

1 THE COURT: Doctor, if you would retake the witness
2 stand, please.

3 (Dr. Cook resumed the witness stand)

4 THE COURT: You may proceed.

5 BY MR. COPPOLINO:

6 Q. Thank you, Your Honor. Dr. Cook, before the break, we
7 had been discussing a number of specific maternal physical
8 health conditions that could arise during a pregnancy, and
9 I'm not going to ask you about anymore specific ones, you
10 may be happy to hear, but I do want to just ask you a couple
11 of wrap-up questions. First, can you think of any maternal
12 physical health complication for which a partial-birth
13 abortion or D & X procedure would be a medically necessary
14 procedure, prior to fetal viability?

15 A. Again, I have been involved in this process and these
16 discussions for a number of years and many scenarios have
17 been presented to me, and I have considered many scenarios,
18 and I have yet to come across a single case where I see it's
19 necessary medically or otherwise to do a partial-birth
20 abortion. In order to effectively and efficiently deliver
21 the mother or separate the mother from her fetus. So I'm
22 not aware of any clinical separation that warrants this
23 procedure.

24 Q. In particular, Doctor, if the maternal health condition
25 was deteriorating rapidly, and you had an emergency where

1 you had to end that pregnancy as quick as possible, would
2 the partial-birth abortion D & X procedure be appropriate in
3 that circumstance?

4 A. It would not.

5 Q. Why not?

6 A. Again, because of the other available options, both
7 medical and surgical, that have been available for a long
8 period of time, can be done safely. Patients have ready
9 access to those procedures. So that, and the fact that I
10 think this procedure has other unacceptable risks involved.

11 Q. What about the time that would be involved in treating a
12 woman with an emergent condition? Would you have the time,
13 even if you considered the partial birth abortion procedure
14 to be a relatively safe option, to do it?

15 A. Well, I have commented in the past that one of the, in
16 my opinion, unreported aspects of the partial birth abortion
17 procedure is that it involves, you know, at least two days
18 of cervical preparation, prior to doing the procedure, in
19 order to achieve the amount of overt dilation that you need
20 for the cervix, in order to complete that particular
21 procedure. So if you are in a time-limited situation, then
22 you would not be able to utilize this procedure.

23 Q. Now, Doctor, we reviewed a number of situations
24 regarding serious maternal health problems in pregnancy, and
25 whether the D & X partial-birth abortion procedure would

1 ever be necessary to treat them. If you had a situation
2 where a baby was pre-viable, where the maternal situation --
3 maternal health situation was deteriorate to go the point
4 you felt it might jeopardize her life, and you felt the D &
5 E procedure was the most appropriate option to terminate the
6 pregnancy, would you have any moral or ethical objection to
7 performing the D & E procedure in that circumstance?

8 A. Well, we, oftentimes, have to make difficult decisions
9 in the world of maternal fetal medicine, as we are
10 constantly trying to achieve an optimal outcome for both
11 the mother and her child. In the situation where there may
12 be a conflict of interest, we would always choose the
13 mother's's interest over the unborn child, meaning we
14 wouldn't sacrifice a mother, in order to try to continue a
15 pregnancy. So there could be a scenario that would arise in
16 the early or mid second trimester where we feel the
17 condition had deteriorated to the point we can no longer
18 treat the mother effectively. And if she is in danger, then
19 I would not have an objection or any sort of hesitation to
20 proceed in any manner I felt was necessary, in order to
21 deliver her baby and allow her to recover. And if that
22 included D & E on a baby that was still living at that time,
23 then that would be what we would have to do, after, again,
24 careful consideration, consultation with other physicians,
25 consultation with the family.

1 Q. Doctor, you've testified this morning that you also
2 treat patients, pregnant women with fetal anomalies; is that
3 correct?

4 A. That's correct.

5 Q. At the time you testified before Congress concerning the
6 Partial-Birth Abortion Act, did you hear any justification
7 for that procedure on the grounds that it would be necessary
8 to terminate a pregnancy that involved a fetal anomaly?

9 A. Well, throughout my experiences in this legislation over
10 the years, I have been presented with many potential
11 scenarios that have been proposed as clinical situations
12 that would mandate this procedure. Some of those have been
13 maternal conditions like we have just discussed. Some are
14 fetal conditions, various types of fetal abnormalities that
15 have been proposed as a justification for this procedure. So
16 at various times throughout the years, I have addressed each
17 and every one of those, and have not found a single fetal
18 condition, just like I haven't found a single maternal
19 condition, that mandates the use of this procedure.

20 Q. What types of fetal anomalies do you encounter in your
21 practice?

22 A. Again, we see a wide variety and range of fetal
23 abnormalities involving virtually every organ system the
24 baby has. We see a lot that involve the central nervous
25 system. We see abdominal wall defects, spine defects, heart

1 defects. We see inborn errors of metabolism or metabolic
2 diseases. We see infectious problems. We see malignancies
3 or neoplasms in fetuses. Pretty much you name it, we see
4 it.

5 Q. Do pregnancies involving a fetal abnormality threaten
6 the health of the mother?

7 A. Generally, a fetus that has an abnormality doesn't pose
8 any additional risk to the mother over and beyond that which
9 a nonmalformed fetus would pose; meaning that no greater
10 risk than just normal risk inherent in a continued
11 pregnancy. There are some rare instances where moms can
12 start to develop complications like high blood pressure, in
13 response to certain types of fetal conditions, but generally
14 the fetus doesn't threaten a mother, just because it has a
15 malformation.

16 Q. Is it necessary to destroy an anomalous fetus, in order
17 to advance maternal physical health interests?

18 A. No. Again, the only thing that's necessary is that you
19 separate the fetus from the mother. If there is the rare
20 situation where a fetal abnormality is exacerbating the
21 pregnancy, let's say in the area of high blood pressure
22 complications, then you don't need to destroy the fetus.
23 You just need to separate the fetus and the placenta from
24 the mother, just like in the pre-eclampsia cases we
25 discussed before.

1 Q. Is it your experience, Doctor, in your practice, that
2 many women choose to terminate a pregnancy where the fetus
3 has an abnormality of some kind?

4 A. Yes. Whenever we see baby that have suspected
5 abnormality, depending upon the type of abnormality and our
6 confidence in the diagnosis, then the patient is always
7 given the option of whether or not she wants to continue the
8 pregnancy or terminate the pregnancy. If she opts to
9 terminate the pregnancy for a nonlethal fetal abnormality,
10 then she's referred to another location. If it's a lethal
11 fetal anomaly, then generally one of the physicians in our
12 office will assist her in that delivery.

13 Q. In your experience, are pregnancies involving fetal
14 anomalies, are these typically wanted pregnancies?

15 A. Yes, virtually all of them are strongly desired
16 pregnancies by the mothers and fathers.

17 Q. When the choice is made to terminate the pregnancy for a
18 lethal fetal abnormality, do you provide care to the women
19 in completing that procedure?

20 A. I do. I provide them support afterwards. I see them
21 before. I help manage any complications of the procedure
22 and, again, our goal is to try to complete the delivery in a
23 manner that is not only humane for the fetus, but also is as
24 gentle and physiologic as possible for the mother. And we
25 also try to allow the parents to have time with their child,

1 since their time is going to be very limited, and that
2 includes being able to hold their hopefully intact baby,
3 even the malformation notwithstanding.

4 THE COURT: Mr. Coppolino, just for your background
5 I understood the doctor does not, himself, perform these
6 procedures in the case of a fetal --

7 MR. COPPOLINO: Anomaly, Your Honor.

8 THE COURT: In the case of a lethal fetal anomaly,
9 he'll have one of his partners do it, and he may supervise
10 the care, but another person will do it. If I misunderstand
11 that, I think it would be helpful to clarify it.

12 BY MR. COPPOLINO:

13 Q. Dr. Cook?

14 A. Yes. My general practice is if the situation of the
15 pregnancy is complicated solely by a lethal fetal anomaly
16 with no maternal medical complications related to that, then
17 one of my partners will do the actual delivery process, and
18 I will do the before and aftercare or management of
19 complications. If it's a lethal fetal condition where it is
20 causing some sort of deterioration of maternal condition,
21 then I will do the delivery.

22 Q. Why do you divide, why do you divide matters that way?

23 A. Well, generally, what I do is try to assist in getting
24 the best outcome I can for both the mother and the fetus.

25 And if the fetus isn't acutely threatening the mother and I

1 have partners that are comfortable doing that procedure,
2 then I let them do that procedure.

3 Q. Doctor, where a decision has been made to terminate the
4 pregnancy for a fetal anomaly, in your opinion, is it ever
5 medically necessary to utilize the partial birth abortion D
6 & X procedure because of the specific nature of the anomaly?

7 A. No, that's not the case. Again, multiple various types
8 of fetal conditions have been proposed that people have
9 suggested would be treated best or potentially only by the
10 procedure partial-birth abortion. And I haven't found that
11 to be the case in any of the proposed cases.

12 Q. Can you think of one fetal anomaly for which termination
13 of the pregnancy by the D & X procedure would be required?

14 A. I cannot.

15 Q. Can you think of any fetal anomaly for which termination
16 of a D & X procedure would be the most appropriate option,
17 because of the nature of the fetal anomaly?

18 A. In the case of hydrocephaly, I would like to address
19 that.

20 Q. Can you tell the Court what hydrocephaly is?

21 A. Hydrocephaly refers to the distention of the ventricular
22 system in the baby's brain, which is the fluid filled canal
23 system within the central nervous system of a fetus. And if
24 that canal system gets overly distended, secondary to either
25 a blockage or an over production of cerebral spinal fluid,

1 then that leads to a condition called hydrocephaly. Which,
2 in its most extreme form, can lead to actual macrocephaly,
3 or a large fetal head.

4 Q. In that case, what can be done to safely deliver the
5 woman?

6 A. Well, most cases of hydrocephalus don't have
7 macrocephaly associated with it. They have large distended
8 ventricles but not a large fetal head. In that situation,
9 you would proceed, as you would in any other, induction of
10 labor. But if it's a situation where they have
11 macrocephaly, then what we would do is an intrauterine
12 procedure similar to a procedure they would do ex utero,
13 meaning wheeled decompress the ventricular system by placing
14 a needle aseptically, surgically into the distended
15 ventricular system, and aspirating off some of that fluid
16 just like they do in the neonatal period, in order to make
17 the head size small enough to be able to allow vaginal
18 delivery. Now, there are some situations where if a patient
19 declines that procedure, then we would proceed with a
20 cesarean delivery.

21 Q. In this particular condition of hydrocephaly, would
22 there typically be a desire or need to have fetal brain
23 material, in order to conduct pathologic testing?

24 A. Yes. Many of the abnormalities that we see do involve
25 the central nervous system, and they do have recurrence

1 risk, and they can be difficult to distinguish by just an
2 anti needle ultrasound. So pathology is sort of a big tool
3 we would utilize in those situations. So having an intact
4 central nervous system would be critical, if the concern was
5 for the central nervous system. If the concern was that the
6 baby had abnormal chromosomes or something of that nature,
7 when the intactness of the central nervous system is less
8 critical.

9 Q. And would the partial-birth abortion procedure be
10 suitable for pathology testing for anomalies for which brain
11 tissue would be for pathology?

12 A. No. I can't even see how they would be able to
13 interpret that tissue, if, indeed, the primary problem is in
14 the central nervous system.

15 Q. If an intact fetus is deemed necessary or desirable for
16 pathological testing, is there a safe alternative to
17 partial-birth abortion D & X procedure?

18 A. Yes. It would be either an induction of labor or
19 potential cesarean delivery.

20 Q. I would like you to look at Defendant's Exhibit 608, and
21 let me assist you in finding that. Doctor, have you seen
22 this document before?

23 A. I have.

24 Q. Did you review this document in connection with
25 preparing your expert report in this indicates?

1 A. I did.

2 Q. What do you understand this document to be?

3 A. I understand it to be, again, a presentation made at a
4 National Abortion Federation Conference in New Orleans, in
5 April of '95, by Dr. McMahon.

6 Q. Could you turn to page Bates stamped at the bottom, CH
7 0000513, where it says fetal indications at the top?

8 A. Unfortunately, my copy is photocopied such that I can't
9 really read it.

10 MR. COPPOLINO: Your Honor, if it please the Court,
11 could I give the witness a better copy?

12 THE COURT: Sure. Of course. And if you would
13 like to stand next to him, if you only have one copy, that's
14 fine.

15 MR. COPPOLINO: Thank you, Your Honor.

16 THE COURT: At that PE thing, there should be a
17 microphone there too, Mr. Coppolino.

18 MR. COPPOLINO: Thank you, and I'll speak extra
19 loudly too, Your Honor

20 BY MR. COPPOLINO:

21 Q. Dr. Cook, this may be a better copy. Why don't you take
22 a look at the page I had indicated to you.

23 A. Yes. I can read this more easily.

24 Q. What do you understand this list to be?

25 A. It appears to be a list that Dr. McMahon submitted

1 detailing some of the specific -- what he termed fetal
2 indications for his partial-birth abortion procedure, which
3 I believe he calls intact D & E.

4 Q. Did you review this list in connection with preparing
5 the expert report you submitted in this case?

6 A. I did.

7 Q. And are you familiar with the fetal indications listed
8 on these pages?

9 A. I am. There are, I believe, more than one page of fetal
10 indications.

11 Q. And does this list purport to describe abnormalities of
12 the fetus?

13 A. It does.

14 Q. And, by the way, did you review this list, prior to your
15 testimony before Congress?

16 A. I did.

17 Q. And do you recognize the medical terms listed here for
18 the fetal indications?

19 A. I do.

20 Q. Could you describe what some of the indications are on
21 this list, Doctor, specifically with reference to the
22 severity of the procedures?

23 A. Just for clarification, you mean the severity of the
24 underlying conditions?

25 Q. Yes. Could you describe some of the indications on that

1 list in connection with whether they are, in your views,
2 indications, severe indications of fetal anomalies?

3 A. I think I understand now. The initial portion of the
4 list includes multiple chromosomal issues, some of which are
5 considered quite minor chromosome abnormalities. Some of
6 which are more severe in nature. Particularly things like
7 translocations and sex chromosome abnormalities are
8 conditions where babies would survive to adulthood with
9 normal mental functioning and a normal productive life.
10 Then there are other types of indications and specific types
11 of abnormalities in a fetus that we would consider to be
12 fairly routine and minor conditions such as hydronephrosis,
13 which as mild dilation of the kidneys that, oftentimes, is a
14 transient intrauterine phenomenon. Frequently responds or
15 resolves spontaneously after delivery. Then there are some
16 other conditions that would, likewise, be considered
17 variations on normal or minor defects at most.

18 Q. Did Dr. McMahon's list include some easily correctable
19 conditions such as cleft lip?

20 A. Yes, there are some conditions that are easily amenable
21 to surgical repair such as cleft lip. Some that are not
22 surgically repaired, but just followed serially with
23 different types of tests like ASD or VSD, which is a small
24 hole between the chambers of the heart, which frequently are
25 not even repaired but just followed serially with echo and

1 repaired as needed.

2 Q. And is it your opinion that some of the other fetal
3 indications listed of little clinical significant such as a
4 two-vessel cord?

5 A. Yes, a two-vessel cord specifically is a normal finding
6 that occurs in about 1% of the general population. If there
7 are not other associated anomalies with it, then it's
8 considered a benign finding.

9 Q. What about asymmetric fetal growth. Did you mention
10 that?

11 A. I mentioned that possibly in my expert report, but I
12 didn't mention it here now, but that also is a condition
13 that we frequently observe which would be an indication --
14 if it became severe for delivery, but by no means is it an
15 indication for termination of the pregnancy in any sort of
16 destructive way for the fetus, because they have normal
17 catch-up growth, almost universally, after they deliver.

18 Q. What about or normal cord insertion?

19 A. Abnormal cord insertion, again, is a very vague term,
20 but that's a common problem that we see in our office as
21 well. No long-term significance for the fetus. As a
22 neonate, can potentially compromise the ability for the
23 fetus to thrive inside the uterus in the form of getting
24 adequate nutrition and growth. So we would follow that
25 pregnancy closely. At the point which we thought the baby

1 was not thriving, then we would work toward delivery.

2 Again, they have very good recovery and catch-up growth ex
3 utero, outside the uterus.

4 Q. What about placental cysts? Is that on the list as
5 well?

6 A. I don't see it here immediately. I have seen it before
7 on the list. I just don't see it right now. But I see
8 placental insufficiency. It's a long list. But placental
9 cyst, in and of itself, is a benign finding seen frequently.
10 Doesn't threaten maternal health. Doesn't have long-term
11 implications for the fetus. Another one I see now, which I
12 think I have mentioned before, which makes up a very large
13 number of his indications are polyhydramnios or increased
14 amniotic fluid volumes. Again, no risk necessarily to the
15 fetus, if no other underlying abnormalities are seen. And,
16 again, just a common finding in pregnancy.

17 Q. Thank you, Doctor. Doctor, I would like to talk about
18 the safety issue surrounding the partial birth abortion D &
19 X procedure. Are you of the view that -- what is your view
20 with respect to simply the safety of the partial birth
21 abortion procedure, in and of itself, as a method of
22 terminating pregnancy?

23 A. Well, whenever we talk about using surgical methods late
24 in the second trimester, early third trimester, that always
25 concerns me, because those are known to be riskier

1 procedures, greater risk for bleeding, infection,
2 perforation. But specifically with this procedure, there
3 are elements that I'm very concerned about. I'm concerned
4 about the marked over distension of the cervix which is much
5 greater than is used in other procedures. I'm concerned not
6 only about immediate issues like, you know, discomfort for
7 the patient and unsupervised monitoring of the patient
8 during her two-day pre-procedure induction, but I'm also
9 concerned about what implications that may have for her
10 later ability to continue to maintain a pregnancy to a point
11 of viability with subsequent pregnancies. I'm concerned
12 about other specific elements of the procedure like the
13 concept of turning a baby in the uterus, which also
14 increases the risk for maternal injury, and generally is
15 abandoned in the practice of modern obstetrics. I'm
16 concerned about the method in which a baby's life is taken,
17 when it's virtually completely delivered then has its, you
18 know, brains sucked out of its head.

19 Q. To your knowledge, have there been any studies
20 evaluating the medical safety of the partial-birth abortion
21 D & X procedure? Are you aware of any?

22 A. I'm not aware of any studies that are comparison studies
23 that are published to date looking at specifically safety
24 issues, either in the short-term or the long term.

25 Q. Now, I just showed you this morning the papers by Dr.

1 Haskell and Dr. McMahon. Why aren't they studies that
2 support the safety of the D & X procedure?

3 A. There is not any sort of comparison group that's
4 presented, so it's lacking sort of a basic element of
5 medical research, which is a control group to be able to
6 compare with so that you know that the outcomes that they
7 are describing are comparable to the outcomes that you would
8 have with other options for procedures of that same
9 gestational age. They also, I don't believe, either of them
10 include any sort of long-term follow up on their patients.

11 Q. But, Doctor, aren't these reviews of the cases that they
12 have performed using this procedure? Isn't that typical as
13 to how we began to learn about the safety of certain
14 procedures?

15 A. Well, there is generally a process of sharing medical
16 information that starts with maybe an isolated case report
17 and then --

18 MS. SMITH: Your Honor, I'm sorry. I'm going to
19 object to this line of questioning this witness has never
20 been disclosed as an expert on the development of surgical
21 techniques. We have heard Dr. Mazariegos on that. He did
22 not express that in his deposition. Specifically limited
23 his opinions to those expressed in his expert report.

24 THE COURT: Well, that will be overruled. You may
25 answer, Doctor. Go ahead.

1 MS. SMITH: Thank you, Your Honor.

2 THE COURT: Incidentally, I appreciate that other
3 places have different precepts about civility. Here it is
4 never necessary to thank me for over ruling your objection,
5 and it really isn't necessary, if I sustain your objection.

6 MS. SMITH: Okay.

7 THE COURT: But in any event, go ahead, Mr.
8 Coppolino.

9 BY MR. COPPOLINO:

10 Q. Doctor, do you still have my question in mind?

11 A. As I understood the question, it had to do generally
12 with how we share medical information, and can you share it
13 without having a control group or comparison group, and
14 medical evidence does initially start out with sharing
15 clinical experience, case reports or maybe small case
16 series. But to be able to draw any significant inferences,
17 especially from a new proposed procedure, particularly if
18 there is any concerns or danger involved in the procedure,
19 then it's going to, by necessity, require that it either is
20 instigated with some sort of oversight or some sort of
21 independent body evaluating the safety of doing this, or
22 have, at least, the very least, some sort of comparison
23 group. Hopefully a historically concurrent comparison group
24 to see if there is an implication that it may be a better
25 way to go. And then maybe, at that point, put the

1 significant resources that are required to perform an actual
2 clinical trial. But, at least, there should be an effort to
3 try to show a comparison group to be able to justify
4 instituting a new type of therapy, particularly if there is
5 potential risk for the new therapy.

6 Q. Now, but, Doctor, you would agree that Doctors Haskell
7 and McMahon, in those two reports, reported on their own
8 cases and reported largely that they had no complications
9 with those cases; is that correct?

10 A. Yes. They were reporting, as I understood it, their
11 immediate short-term complications. And, again, there is a
12 concern for longer term implications as well. I don't
13 recall either of them offered those up.

14 Q. Well, assuming what they are saying is true for the
15 moment, and they are reporting no short-term complications,
16 why isn't that good evidence that the Court could rely on as
17 to the safety of the D & X or intact D & E procedures, as
18 they called them?

19 A. Well, introducing a new procedure involves several
20 elements. You can introduce a new procedure because you
21 think it's safer than existing procedures. You can
22 introduce it because you think it's more efficacious or
23 efficient in accomplishing what you want it to do with maybe
24 similar risk. Or you may say it's something that involves
25 less cost financial cost or less time. So there are

1 multiple things a new procedure potentially could bring to
2 the table. But if you are going to introduce a new proceed
3 irrelevant, again, one with potential risk, and introduce it
4 on the face that it has relatively low complications
5 associated with it, I think the onus is on you to show that
6 those complications, even if low, are lower than other
7 existing techniques, or offer some real benefit over other
8 existing techniques. And I don't see where this procedure
9 offers any additional benefits.

10 Q. In your opinion, should there be some form of
11 independent review of the cases of those who assert that
12 their procedures are safe?

13 A. Well, generally to maintain the integrity of the data,
14 it should have some independent oversight, either in the
15 form of peer review or a supervisory committee for human
16 subjects and human studies.

17 Q. Doctor, you, yourself, conduct studies and publish
18 studies; is that correct, in the field of internal fetal
19 medicine?

20 A. That's correct.

21 Q. What kinds of research tools do you utilize?

22 A. Well, we first try to ask a question that we think needs
23 to be answered. We look at -- in my world, I do
24 predominantly clinical research, at this point in time. We
25 try to look at a question that doesn't seem to have clarity

1 in the existing literature, and say is there something we
2 can do to either clarify this issue or improve on this
3 issue? And then once we ask what we think is a good
4 question, we try to see if we can answer that question from
5 existing data that is already available, and that may be in
6 the form of a case controlled study, a retrospective case
7 controlled study. And then once we have asked the question
8 that we think there is some credence to pursuing it and a
9 prospective manner, then we go through the somewhat arduous
10 process of setting up a clinical trial, and that includes
11 writing out a specific proposal, in my institution, for our
12 institutional review board to approve. And, in fact, we
13 have one that was being considered last night at our
14 institutional review board that I'm a part of. And if they
15 approve it, then we go through the process of instigating
16 it, and there is continued ongoing oversight, including a
17 requirement to submit interim data and continue to report
18 back to the oversight committee, so that they can maintain
19 all the things that they feel need to be maintained on the
20 subject's study including anonymity, including privacy
21 issues, including safety issues. So there is a whole host
22 of things they review for us. So it can be a complicated
23 process if done the right way.

24 Q. You would agree, Doctor, a review of the doctor's
25 individual cases would be one way of ascertaining the safety

1 of a procedure?

2 A. Yes. It would be the lowest level of evaluation, but
3 it's a starting point.

4 Q. Is there some reason you can think of why peer review of
5 case studies of physicians who perform in procedure partial-
6 birth abortion D & X procedure is not possible?

7 A. I don't know of any reason why it shouldn't be possible.
8 Peer review is done all the time, in a number of matters,
9 whether institutional specific or related to insurance and
10 reimbursement issues, or liability issues. So I don't know
11 of a reason why there can't be independent review of
12 people's experiences with this procedure.

13 Q. Would you agree, Doctor, that in trying to compare the
14 relative safety of new procedures, if it's believed that
15 their complication rates are going to be close, you would
16 need a large number of cases to review?

17 A. Well, that's a phenomena of statistical analysis.
18 Whenever you are trying to show the distinction of two
19 populations that have a great deal of overlap, meaning they
20 don't differ by very much, you're going to need a large
21 number of subjects to be able to show that those two
22 populations are, indeed, distinct populations. If the
23 populations are already inherently quite distinct, then you
24 don't need as many subjects to be able to demonstrate that.

25 Q. Is there any reason you can think of where, if you

1 wanted to do a retrospective review of cases involving D &
2 X, intact D & E partial-birth abortion procedure, there
3 would be an insufficient number of cases to review?

4 A. I'm sorry. Could you repeat the question?

5 Q. If we were going to do a retrospective case review of
6 this procedure and have it peer reviewed, I'm referring to
7 the D & X, intact D & E procedure, is there any reason to
8 believe there would be an insufficient number of cases to
9 review?

10 THE COURT: The more specific you get about doing
11 these studies, to the extent that the doctor was not
12 designated in that area, the more likely that I am to
13 sustain an objection. Can you tell me, Mr. Coppolino, was
14 the doctor designated at this level of specificity?

15 MR. COPPOLINO: Well, I believe that subject is
16 well within the scope of his expert report, and if you would
17 like, I will put the expert report in front of him and we
18 can go through what he said about how you go about studying.

19 THE COURT: If you would just show it to me, that
20 might be helpful.

21 MR. COPPOLINO: May I approach, Your Honor?

22 THE COURT: Sure. Just give me a sense of the
23 page.

24 MR. COPPOLINO: Your Honor, I'm specifically
25 referring to page 12, caption B, which begins to talk about

1 relative safely issues which is the subject I have now
2 turned to.

3 THE COURT: All right. Give me just a moment to
4 read it.

5 MR. COPPOLINO: Sure. I would just call the
6 Court's attention to the remainder of page 12 up through the
7 first paragraph on page 13.

8 THE COURT: As a general matter, as I indicated
9 earlier, I don't have a problem with the doctor giving us
10 his experience about running clinical trials. However,
11 you're now into an area which I perceive to be different and
12 not disclosed in his report, but I want to give you an
13 opportunity to tell me why I'm wrong.

14 MR. COPPOLINO: Okay. I'm not going to belabor
15 this particular issue. All I would simply say is that Dr.
16 Cook, opines his report with respect to the lack of studies
17 for this procedure, and whether in the form of nonconcurrent
18 cohort study or a clinical trial. He then says advances in
19 surgical techniques fall under the direct supervision of
20 institutional review boards under controlled settings with
21 published and shared data within the medical community.
22 Those procedures deemed more efficacious, less complicated
23 or less expensive become incorporated into modern surgical
24 innovation. So Dr. Cook's report discusses the lack of
25 study for this particular procedure and the means of

1 studying medical procedures. So I felt that's well within
2 the scope of his report.

3 THE COURT: Well, I appreciate that, and I think I
4 have let you talk about that. What I'm a little -- feel a
5 little awkward having you now talk about is the doctor, at
6 the level of specifics, -- the spending question was and we
7 can have the robbery read it back if you like, but I think
8 my recollection is accurate. Is simply whether or not there
9 is enough of a population to do the study. And that is a
10 very specific question that is different, that requires far
11 more awareness about both D & E and D & X procedures that
12 this witness, at least, at this point, has disclosed no
13 expertise on. And certainly that wasn't discussed in his
14 expert report. And so that is where I have the problem.

15 MR. COPPOLINO: You know, Your Honor, I'm happy to
16 move past that question. The question was solely seeking to
17 elicit his understanding as to the number of cases that have
18 been done in the past on this, but it's really not worth
19 getting hung up over. As long as you understand, I was just
20 asking him in his understanding of how many times this
21 procedure has been performed, based on published data or
22 some other understanding, does he think there would be a
23 sufficient number of cases to study.

24 THE COURT: Right. And I think your earlier
25 physician from Pittsburgh and the other physician from

1 University of Michigan were well qualified to talk about
2 that.

3 MR. COPPOLINO: Let's just leave the point, Your
4 Honor.

5 THE COURT: But I don't think this witness is, and
6 I don't think his expert report adequately made counsel
7 aware that you were going here, so I take it --

8 MR. COPPOLINO: That's fine. I will withdraw the
9 question.

10 THE COURT: Thank you. Go ahead

11 BY MR. COPPOLINO:

12 Q. And I don't -- I have just a couple more on these lines
13 and I don't think they run a foul, but if they do, we'll
14 hear of it I'm sure. Doctor, if you assume that the D & X
15 intact D & E procedure is considered to be an innovative
16 procedure, at some point, are innovative practices in
17 medicine subjected to some study?

18 A. Yes. In this country, particularly those things that
19 may have any sort of perceived or associated risk, are not
20 incorporated within the general medical regimen without
21 being subject to some sort of study first.

22 Q. Now, judging from Dr. Haskell's paper, he gave this
23 paper in 1992. Are you aware of a single published peer
24 reviewed study of the D & X procedure since that time?

25 A. I'm not.

1 Q. Are you familiar with the medical literature in the
2 field of obstetrics and gynecology and maternal fetal
3 medicine?

4 A. In a general sense, I am, yes.

5 Q. Do you tend to read journals involving issues of
6 obstetrics, gynecology and maternal fetal medicine?

7 A. I do on a regular basis, yes.

8 Q. Do you read articles in those journals that concern the
9 procedures for pregnancy termination?

10 A. I do review those articles, but my focus isn't on those
11 articles generally when I'm reading the literature.

12 Q. Based on your review of those journals, would you agree
13 there are many, many articles on abortion practices and
14 techniques, journals involving obstetrics and gynecology and
15 maternal fetal medicine?

16 A. Yes. There has been recently a large number of
17 publications looking specifically at variations on medical
18 induction; specifically on how to improve medical inductions
19 of termination.

20 Q. Doctor, do you believe that intuition is a sufficient
21 basis to judge the safety of the partial-birth abortion, the
22 D & X procedure?

23 A. Well, I think that if you are going to incorporate any
24 sort of surgical medical procedure, that you should be
25 basing that upon more than just intuition.

1 Q. Now, the plaintiffs, and others who have testified in
2 favor of this procedure, assert that the procedure appears
3 to be safe because it, involves among other things, fewer
4 instrument passes. It also involves not having to remove
5 sharp fetal fragments. And, for that reason, may present
6 less risk of uterine perforation and cervical laceration.
7 Do you think that assessment of those possible benefits is
8 sufficient for the Court to judge that the procedure is
9 safe?

10 A. No, I consider that insufficient evidence. It is very
11 common in the field of medicine, particularly in the field
12 of obstetrics, where things that may appear to have a
13 potential benefit on the surface, when actually placed to
14 the test of some sort of study or trial, prove to be just
15 the opposite and potentially harmful. And there are many
16 examples in obstetrics and gynecology specifically, and I
17 can talk about those.

18 MS. SMITH: Your Honor, I think we are back into
19 the --

20 THE COURT: This is general enough, that will be
21 overruled. Go ahead

22 BY MR. COPPOLINO:

23 Q. Did you finish your answer, Doctor?

24 A. I didn't go into the specifics, but anything from people
25 that had DES exposure in the past, thinking it would help

1 them with miscarriages, was published in a noncontrolled
2 fashion. Was heavily incorporated into this country and
3 later found to be a cause of many complications including
4 vaginal cancer and genital tract abnormalities. And it
5 wasn't until it was studied in a clinical trial that people
6 recognized the danger of that technique, and it was
7 subsequently abandoned, after having been used for many
8 years. And there were other examples even within obstetrics
9 and gynecology.

10 Q. Doctor, do you, yourself, agree that the intact D & E or
11 D & X procedure might appear to present some advantages such
12 as the need for fewer instrument passes?

13 A. Well, on the surface, an intact D & E procedure or D & X
14 procedure may appear to offer some benefits when compared to
15 a traditional D & E procedure, as far as the amount of
16 instrumentation involved. But I don't generally think
17 that's an accurate comparison, since generally D & Es are
18 being done at earlier gestational ages, and the
19 partial-birth procedures are being done at later gestational
20 ages, where I believe the more accurate comparison is with
21 induction techniques.

22 Q. Now, at the outset of this discussion of this topic, you
23 have identified some specific concerns with the procedure
24 and I want to just address a few of those. First of all,
25 just -- I believe you indicated that one concern you had

1 with this procedure was the potential long-term
2 complications it might have on cervical incompetence; is
3 that correct?

4 A. Cervical incompetence and pre-term delivery.

5 Q. Would you explain what your concern is with the
6 procedure in connection with cervical incompetence and
7 pre-term deliver?

8 A. Well, there is an increasing body of evidence that
9 supports that people that have had a prior termination of
10 pregnancy are at increased risk for subsequent pre-term
11 deliveries and potentially low birth weight infants. And
12 those studies are done predominantly on people that have
13 procedures done in the first trimester, where there is very
14 little manipulation necessary for the cervix, in the form of
15 dilation. So some data would suggest the risks are higher
16 when you're doing mid term procedures, or mid trimester
17 procedures. I believe that is related to the amount of
18 manipulation necessary in the amount of dilation to the
19 cervix. So if you take that to an even a greater extreme
20 where there is a massive over dilation of the cervix, then I
21 have an even greater concern about the potential integrity
22 of the cervix, and the ability to maintain a pregnancy to
23 term in the future.

24 Q. What is your understanding of the process of dilation
25 for the D & X procedure that causes you to have these

1 concerns about potential long-term complications?

2 A. Well, obviously when you deliver a child, you achieve,
3 you know, full dilation of the cervix which is, you know, 10
4 centimeters in general. But it occurs as a result of a
5 normal physiologic process. Uterine contractions then lead
6 to cervical dilation and change. When you're talking about
7 doing it in a short time frame and doing it with mechanical
8 distension of the cervix, there is greater risk for
9 disrupting the normal integrity of what we call the matrix,
10 cellular matrix or the collagenous cellular matrix of the
11 cervix, which is at a cellular and physiologic level, what
12 makes up the normal architecture of the cervix.

13 Q. Doctor, do you understand the dilation process for the D
14 & X procedure, particularly as practiced today, can be a
15 gradual process over a couple of days involving natural
16 osmotic dilators, how can that potentially threaten -- how
17 can that potentially lead to a long-term complication
18 involving pre-term birth or cervical incompetence?

19 A. Again, it's the manner of focusing on the cervix rather
20 than using uterine activity and uterine contractions to lead
21 to cervical change. The normal process, and the way it's
22 designed, is for the uterine contractions to lead to gradual
23 and physiologic dilation of the cervix. If you are just
24 trying to force open the cervix alone, whether using
25 dilators that are osmotic or instrument dilators, it's using

1 a decidedly nonphysiologic process to try to force open the
2 cervix.

3 Q. What is potentially dangerous about multiple insertions
4 of laminaria in the cervix for long-term complications from
5 this procedure?

6 A. Well, any time you're placing things into the cervix,
7 you increase the risk for infectious complication. The more
8 things you place into the cervix, the greater the risk. But
9 my primary concern long term is for this, again, achieving a
10 greater level of cervical forced cervical dilation for --
11 that is necessary for this procedure.

12 Q. And would you include the use of laminaria among what
13 you just described as forced cervical dilation?

14 A. I would.

15 Q. And why?

16 A. Because it's not changing the cervix by the method of
17 using the typical physiologic process of uterine
18 contractions, but by using dilators that absorb fluid and
19 grow to two, three, four times their size, in order to force
20 dilation of the cervix.

21 Q. Are you familiar with the drug Misoprostol, also known
22 as Cytotec?

23 A. I am.

24 Q. Do you use it in your own practice?

25 A. Yes, it's probably the mainstay of therapy for medical

1 induction of pregnancy in our practice.

2 Q. Would you agree that Cytotec is improved the process of
3 preparing the cervix for termination of pregnancy?

4 A. Well, we use Misoprostol predominantly to cause uterine
5 contractions and expel the uterus, when we are trying to
6 deliver a pregnancy early. There have been people talking
7 about using Misoprostol in a cervical preparatory fashion
8 for mid trimester terminations as well. In our practice and
9 in many practices, we use Misoprostol for term pre-induction
10 cervical ripening or for pre-term induction. We aren't
11 currently using Misoprostol for mid trimester preparation,
12 prior to a surgical procedure.

13 Q. Is Misoprostol considered a dilating agent?

14 A. No, it's a Prostaglandin whose role is to cause uterine
15 contractions and uterine activity.

16 Q. Does that process assist in preparing the cervix for a
17 surgical abortion procedure?

18 A. It can. Again, by utilizing the typical variation on
19 the physiologic process of uterine contractions leading to
20 gradual cervical change.

21 Q. If dilation is achieved, in part, through the use of
22 Misoprostol, would that alleviate, to some extent, the
23 concerns that might exist with respect to potential long
24 term cervical incompetence leading to pre-term birth?

25 A. On the surface, it would in my mind, because I'm

1 concerned, again, about the nature in which you're achieving
2 the cervical dilation. Again, when you deliver a child
3 normally, you're going to achieve full dilation of the
4 cervix. So I'm not always concerned about just how dilated
5 it is, but how you got to that point. So if you get to that
6 point using the normal physiology or the variation of normal
7 physiology, and you use contractions, whether those
8 contractions are caused by Prostaglandins or Pitocin, I'm
9 less concerned about that. But if it's just a mechanical
10 forcing open of the cervix without using uterine activity,
11 then that makes me very concerned about the potential lack
12 of integrity of that cervix for subsequent pregnancies.

13 Q. And, would you agree -- would your concern with respect
14 to the mechanical forcing open of the cervix apply
15 specifically where a mechanical dilator was used?

16 A. It would apply any time you're using a process to try to
17 dilate the cervix where you are focusing only on the cervix
18 and not utilizing uterine activity. Misoprostol utilizes
19 uterine activity to cause cervical change.

20 Q. In considering the risk of generous dilation that's used
21 in the D & X procedure, do you need to consider also the
22 gestational age at which the procedure is being performed?

23 A. Yes. The further in gestation, the greater the amount
24 of cervical dilation that's necessary.

25 Q. Is dilation a four to five centimeters after 20 weeks

1 potentially worse than two-and-a-half centimeters between 18
2 to 20 weeks?

3 A. Yes. The more dilation you have to achieve, if you
4 achieve it through a nonphysiologic process, the more I'm
5 concerned.

6 Q. Have you seen any peer reviewed data concerning the
7 effects of slow generous dilation over two days using
8 osmotic dilators?

9 A. No.

10 Q. Have you seen any peer reviewed scientific data
11 comparing or analyzing the use of Misoprostol to achieve a
12 slow generous dilation over a one or two-day period?

13 A. I believe there has been case reports or case series
14 proposing that, but no comparative studies that I'm aware
15 of.

16 Q. Is there any existing data you could call the Court's
17 attention to on the effect of abortion that might indicate a
18 potential long-term problem with the D & X procedure?

19 A. Well, again, there is an increasing body of evidence
20 that shows that people that have had induced abortions have
21 a higher risk for pre-term delivery and possibly low birth
22 weight with subsequent pregnancies. And those studies are
23 still done predominantly on people that had first trimester
24 terminations. So I guess my concern would be even greater
25 with those that are having later gestational age

1 terminations.

2 MR. COPPOLINO: Ready to break, Your Honor.

3 THE COURT: The doctor's answer, and I appreciate
4 that the terms are used may be used differently. I did not
5 understand the last answer to apply specifically to
6 abortions accomplished by the induction method, although the
7 word induced was used in the doctor's answer. I understood
8 his answer to be broader than induction abortions.

9 MR. COPPOLINO: Yes, Your Honor. Perhaps I can
10 clarify that when we return. The term induced, I think, is
11 referring to various methods of abortion, but we can clarify
12 that when we return.

13 THE COURT: All right. We'll stand in recess until
14 1:30. Doctor, you may step down, sir.

15 THE WITNESS: Thank you.

16 (Recess from 11:59 to 1:30 p.m.; all parties present).

17 THE COURT: Doctor, if you will come forward,
18 please, and take a seat in the witness stand.

19 (Dr. Cook resumed the witness stand).

20 THE COURT: Counsel, you may inquire.

21 BY MR. COPPOLINO:

22 Q. Thank you, Your Honor. Dr. Cook, before the break, I
23 was asking you some questions about potential long-term
24 consequences of the D & X procedure, and I want to just go
25 over some of that very briefly. Is there any existing data

1 on the effect of abortion that believe might indicate a
2 problem with the intact D & E procedure or D & X procedure
3 in terms of long-term consequences?

4 A. Well, I think I mentioned before, there is an increasing
5 body of evidence regarding the potential risk of induced
6 abortion. And, again, when I use that term, I'm
7 distinguishing it from spontaneous abortion or miscarriage.
8 So abortions that are caused by care providers, there is an
9 increasing body of evidence that that subset of patients is
10 at increased risk with subsequent pregnancies for both
11 pre-term delivery, mostly secondary to cervical incompetence
12 issues, and also potentially at risk for low birth weight
13 infants. The existing data has looked predominantly at the
14 earlier terminations of pregnancy where there is less
15 cervical manipulation. And so my concern is, and there is
16 data to suggest this, that the later procedures, where there
17 is even a greater amount of cervical manipulation, would
18 lead to potentially even a greater concern, specifically for
19 pre-term labor, specifically pre-term labor related to
20 cervical weakness issues.

21 Q. When you use the term induced abortion, that's including
22 all methods of abortion that are provided by the physician;
23 is that correct?

24 A. Correct.

25 Q. All right. And how does that data that exists

1 concerning potential complications of abortion relate to
2 your concerns with respect to the D & X procedure?

3 A. Well, one of the hallmarks or distinguishing features of
4 the D & X procedure is this, again, super distension or over
5 distension of the cervix beyond that which is usually done
6 for typical second trimester procedures like D & E, and
7 certainly beyond that done for first trimester procedures
8 like suction curettage. So if the concerning data is with
9 the issue of pre-term delivery, and that data exists even
10 for people that have first trimester abortions, then I'm
11 concerned the risk would be even greater with those that had
12 later abortions, specifically by a technique that would
13 involve marked or over distension of the cervix.

14 Q. Doctor, turning to another safety concern. To the
15 extent that the D & X partial-birth abortion procedure
16 involves an internal podalic version of the fetus to the
17 breech position, do you have an opinion as to the safety of
18 that procedure?

19 A. I do. It is concerning, whenever you talk about trying
20 to turn an infant within the womb, that you can increase the
21 risk for maternal trauma in doing that, and it's generally
22 not part of current obstetrical practice to still utilize
23 that technique. That was an older technique used years ago
24 for different situations and has been sort of resurrected
25 for this particular procedure. But I think there are

1 inherent risks associated with it that have been recognized
2 by obstetricians that practice other methods of abortion and
3 other methods of just delivering of infants, and, I believe,
4 even practitioners of this particular procedure -- there has
5 been some concern about doing internal podalic version.

6 Q. Doctor, would the risks of the internal podalic version
7 be less in mid second trimester or mid trimester as opposed
8 to at term, in delivering a baby at term?

9 A. I'm not certain that the risk changes that much, based
10 upon the gestational age, because it's the concept of being
11 within the uterus in a somewhat blind fashion and
12 manipulating a fetus within that closed environment that is
13 the risk.

14 Q. And what is the risk of that procedure?

15 A. Well, perforation of the uterus, trauma to the uterus,
16 and then all the things that go along with that, including
17 risks of bleeding and infection.

18 Q. With respect to the issue of uterine perforation, would
19 the use of ultrasound offer some protection against
20 perforation in performing a D & E, in which the fetus is
21 dismembered?

22 A. Well, certainly I think ultrasound is always
23 advantageous whenever we are doing any procedure within the
24 uterus, because you're working with a window into the womb
25 so-to-speak. You're not doing your procedure as blindly, so

1 you can identify specifically in D & E where the head may be
2 or certain extremity may be, and you don't have to be
3 grasping around within the uterus blindly with your forceps.
4 You can go right to the area you're trying to target.

5 Q. What would be your opinion of performing a D & E or a D
6 & X without the use of ultrasound?

7 A. Well, I think it would be not practicing contemporary
8 obstetrics. It's a tool that is part of our routine
9 armamentarium and should be utilized in any procedures where
10 you are doing intrauterine manipulations. We use it for
11 therapies targeted at the fetus. I even use it where we
12 have a situation where there may be a retained placental
13 tissue after a medical induction, abortion or procedure, and
14 the baby has been expelled but the placenta remains. If we
15 have to do D & C or dilatation and curettage, we do that
16 under ultrasound guidance to reduce our risk of perforations
17 or other complication.

18 Q. For those who would assert they performed D & E or D & X
19 procedures safely without ultrasound, because of the
20 experience that they have gained, would you say that they
21 are practicing a safe procedure?

22 A. Well, you certainly can accomplish it without the
23 benefit of ultrasound, and it was done that way for years
24 when ultrasound was not available. And experience is
25 helpful in that regard, but I would say that you're not

1 availing yourself of all the resources that are available,
2 and you're not performing it as safely as you could be
3 performing it in this day and age.

4 Q. Doctor, do you have an opinion as to whether the safety
5 of the D & X procedure should be evaluated by reliance on
6 data demonstrating the safety of the D & E procedure?

7 A. Well, I do have concerns about that that I believe I
8 mentioned that it is difficult to compare a traditional D &
9 E procedure, most of which are still done at earlier
10 gestational ages than most of the D & X procedures. I think
11 it's difficult to compare those two from a risk assessment
12 standpoint, because we know the risks are tied greatly to
13 gestational age. The higher gestational age, the greater
14 the risk. I think, again, the more accurate comparison is
15 what truly happens as it is proposed now medical induction
16 as proposed D & X procedure beyond 20 weeks of gestation.

17 Q. Do you have an opinion as to whether the safety of the D
18 & X procedure, as compared to induction procedures, medical
19 induction procedures, should be evaluated by reliance on
20 data comparing the D & E procedure to prior methods of
21 induction?

22 A. Well, that's problematic as well. You always want to be
23 comparing groups that are comparable and are contemporary.
24 And the problem with looking at data that is several decades
25 old, utilizing old induction techniques, specifically

1 installation techniques, and comparing that to D & E or even
2 worse by extrapolation D & X, would be really a stretch.
3 It's just not an accurate comparison. You need to compare
4 contemporary induction methods with Prostaglandins
5 administered orally, vaginally, intramuscularly. Compare
6 that group with what would be a more appropriate comparison
7 group, the D & X procedure as it's been described and
8 performed.

9 Q. What is your understanding of the statistics that
10 existed -- that exist, based on prior studies, as to the
11 relative safety of the D & E procedure with prior methods of
12 installation induction?

13 A. Well, again, data now several decades old would
14 demonstrate that D & E is considered generally a less
15 complicated procedure than installation techniques of
16 induction, up until about 16, or maybe 16 to 18 weeks
17 gestation. After that, they are comparable risk.

18 Q. Doctor, do you believe that current methods of
19 induction, termination in the second trimester, have
20 improved over the installation methods of induction that
21 have been previously used?

22 A. I do. This is an area of active research and
23 development. Instead of, again, using installation of
24 saline, hypertonic saline or Prostaglandins, we now
25 administer new and different types of Prostaglandins by

1 different routes, constantly studying different formulations
2 and strengths and intervals of administration to figure out
3 which group will be delivering in the most expeditious and
4 safest manner.

5 Q. Could you provide the Court a little bit more detail
6 with respect to how modern Prostaglandins have improved the
7 safety and the speed of induction terminations?

8 A. Well, in the last several years, Misoprostol or Cytotec
9 has played a larger role, and they have continued to look at
10 which strengths seem to be most effective, and which
11 intervals of administration seem to be most effective, and
12 can now, you know, get medical inductions down to pretty
13 reliable 12 hour, on average, interval of time or less. And
14 do it in a manner that minimizes risk for both maternal
15 complications and still allows, if it's appropriate,
16 adequate outcome for the fetus.

17 Q. What is your response to the assertion that medical
18 inductions are a more painful and physiologically stressful
19 procedure than a surgical termination such as D & E?

20 A. Well, I think surgery is decidedly nonphysiologic as
21 opposed to labor. So a labor induction is a much more
22 physiologic process or utilizes a natural process more than
23 surgery would. But it also is a more controlled and
24 monitored situation, as opposed to the D & X procedure,
25 meaning that patients are constantly monitored for pain

1 control, analgesia is constantly available to them in
2 various forms, including patient controlled IV anesthesia or
3 epidural, as opposed to having a handful of Motrin or
4 Ibuprofen, going to a hotel room somewhere for a couple of
5 days while the cramping and contracting is taking place.

6 Q. So would you summarize, then, your views as to why you
7 favor medical induction terminations after 20 weeks over
8 surgical abortion terminations?

9 A. Well, I think there is many potential advantages,
10 particularly in the type of patients that we care for. I
11 have mentioned already but, again, this taking advantage of
12 a normal physiologic process, having a situation that you
13 can more adequately monitor, not just for patient analgesia
14 or pain relief concerns, but for maternal stability
15 concerns, particularly if there is underlying medical
16 disease, particularly cardiovascular disease, or uterine
17 scar or what-have-you. And then also, the ability to have
18 an intact fetus, you know, for pathologic evaluation.

19 Q. Doctor, I put on the desk there what's been marked as
20 Defendant's Exhibit 545. Is that correct, is that the right
21 number?

22 A. Yes, I have it.

23 Q. And it's Exhibit 545 is an article by Dr. Amy Autry and
24 others entitled a Comparison of Medical Induction and
25 Dilation and Evacuation for Second Trimester Abortion. Are

1 you familiar with this article, Dr. Cook?

2 A. I'm familiar with it.

3 Q. And you've read it before?

4 A. I have.

5 Q. Do you understand that this article concludes that the D
6 & E method of second trimester abortion poses fewer
7 complications than the medical induction method of abortion
8 in the second trimester?

9 A. Yes, that is the conclusion they state.

10 Q. Do you agree with that conclusion?

11 A. I do not.

12 Q. Why don't you agree with it?

13 A. Well, it's not supported, at least, by the data that
14 they present. They do present some data that is very small
15 number of patients, and they define complications in a
16 manner that I think is somewhat misleading, and then make
17 the conclusion that they made, that that method is a safer
18 method; that D & E is a safer method than the other methods
19 they compared with.

20 Q. What is misleading about the manner in which they have
21 defined complications, in your view, or for the medical
22 induction procedure?

23 A. Well, the reason I find it misleading is it's pretty
24 consistently demonstrated in multiple people's experiences,
25 published or personal experiences, that with a medical

1 induction of pregnancy as it is done now, there will be
2 about a 10% incidence of a placenta that doesn't pass in a
3 reasonable time frame spontaneously, after the baby has
4 already been expelled, which then would necessitate the need
5 for a D & C. And I think to consider that a complication,
6 plus they sort of double dip when they talk about retained
7 fetal products, and the need for D & C are listed as two
8 separate complications, which I assume there is overlap
9 there. So I don't know that I consider that a complication.
10 The complications that I would consider of concern include
11 things that they did look at hemorrhage requiring
12 transfusion. Laceration of the cervix requiring repair.
13 Hospital admission. If you look at those type of
14 complications, there was no difference between the two
15 groups.

16 Q. You agree that in this article, 77% of the complications
17 associated with medical induction were to extract a retained
18 placenta?

19 A. Correct.

20 Q. How long do you typically wait after a medical induction
21 -- if the placenta has not passed, how long do you typically
22 wait for it to pass naturally?

23 A. I usually will wait up to an hour or two, as long as the
24 patient is stable without evidence of bleeding or infection.

25 Q. Do you believe that's consistent with normal care

1 provided by physicians after a medical induction?

2 A. Yes, I believe that that is pretty consistent. I
3 honestly don't recall in this article if they defined what
4 length of time they waited before they proceeded with a D &
5 C, if necessary.

6 Q. Or whether they defined a time before they characterized
7 something as a retained placenta?

8 A. Correct. I don't recall that being discussed.

9 Q. Now, you wouldn't wait two hours, I take it, Doctor, if
10 the woman was bleeding at the time, would you?

11 A. No. If the mother was not considered stable, then we
12 would proceed sooner.

13 Q. And if the retained placenta was creating an emergent
14 situation, would you regard that as a complication of the
15 medical induction?

16 A. Yes, if she was having bleeding significant enough to
17 cause us to intervene for that, then I would consider that a
18 complication.

19 Q. How do you remove a retained placenta after a medical
20 induction?

21 A. We do it in the form of introducing forcep or a sharp
22 curette, and I do it under ultrasound guidance.

23 Q. How would that be any different from the manner in which
24 a retained placenta is removed during a D & E abortion?

25 A. It would be no different.

1 Q. Do you feel that the inclusion of retained placenta, as
2 a complication in this study, has somehow skewed or biased
3 the results of this study?

4 A. I do. I think by starting up front and defining that
5 one of your complications is going to be retained placenta,
6 where you know that that is a normal result of a medical
7 induction, and you know that you're going to be
8 instrumenting in removing it in the other scenario, so that
9 it shouldn't ever occur in the one group, then I think you
10 have a preset bias against one type procedure or the other.
11 That's why I would rather see the focus on complications be
12 on things that are of greater significance, where it's not
13 an expected outcome with either arm. Things like organ
14 damage, readmission to the hospital, cervical laceration,
15 hemorrhage requiring transfusion. All of those four
16 categories were looked at and they did not differ between
17 the two groups, but, again, it's a very small study.

18 MR. COPPOLINO: May I have one moment, Your Honor?

19 THE COURT: Certainly.

20 MR. COPPOLINO: Your Honor, no further questions at
21 this time.

22 THE COURT: Counsel, you may inquire.

23 CROSS-EXAMINATION

24 BY MS. SMITH:

25 Q. Doctor, Priscilla Smith for the plaintiffs. I have been

1 told I'm a fast talker, so I'm going to try to slow down.

2 A. I'll try to listen fast.

3 Q. Okay.

4 THE COURT: Incidentally, I'll remind you again,
5 don't listen to my court reporter.

6 MS. SMITH: Speed is a good thing in some people's
7 minds.

8 THE COURT: That's right. He'll take it.

9 BY MS. SMITH:

10 Q. Doctor, you have never done a first trimester abortion
11 on a live fetus; is that right?

12 A. I have not.

13 Q. And you've performed between three and five D & Es; is
14 that right?

15 A. That is correct, that I have actually performed myself.

16 Q. And none of them involved extraction of a fetus that was
17 living; is that right?

18 A. None of them involved an extraction of fetus that was
19 living at the time the procedure was done.

20 Q. Thank you. And you've supervised under 20 D & Es; is
21 that right?

22 A. That's correct, supervised or participated in, to some
23 extent.

24 Q. But not performed?

25 A. Correct.

1 Q. And it was only a small number of those 20 cases that
2 you have supervised or participated in that the fetus was
3 living at the beginning of the procedure; is that right?

4 A. That is correct.

5 Q. Maybe one or two, five?

6 A. Probably a third. Less than half.

7 Q. So less than ten. And some of those D & Es might have
8 been 16 to 18 weeks at the latest, but it's unusual in your
9 practice to do a D & E after 16 weeks; isn't that right?

10 A. Not exactly. My experiences where I have been a
11 participant or performing the procedure have included cases
12 that went up to 20 weeks but usually were at the earlier
13 gestational ages.

14 Q. So it's unusual to go beyond 16?

15 A. It's not common.

16 Q. Thank you. And no one in your current office performs D
17 & Es, but they did in your previous practice in Louisville;
18 is that right?

19 A. I don't recall my current partners doing a D & E
20 recently, but I do recall that being a larger part of our
21 practice when I was in Kentucky.

22 Q. Thank you. By the way, Doctor, you testified that you
23 will do a termination on a woman who has a lethal --
24 carrying a fetus with a lethal anomaly, only if she also has
25 a medical condition where her health is deteriorating; is

1 that right?

2 A. That's correct.

3 Q. Can you give me some examples where you have performed
4 an early termination of pregnancy for a lethal fetal anomaly
5 when the health condition was deteriorating? What type of
6 health conditions were those?

7 A. One that comes immediately to mind when a baby has
8 nonimmune high drops. For want of a better term, is sort of
9 like congenital heart -- I'm sorry. Congestive heart
10 failure for the fetus. And there is lots of conditions that
11 can cause that. Then that can induce what we call a mirror
12 syndrome, where the mother gets a subsequent
13 pre-eclampsia-type picture, as a result of that.

14 Q. Um-hm?

15 A. So that's an example of where a mother's health could be
16 threatened by a continuation of nonimmune high drops, which
17 generally has about a 90% mortality for fetuses.

18 Q. Anything else you can think of?

19 A. Well, that's the one that came most immediately to mind.

20 Q. And you can't think of any others right now?

21 A. Well, no. There are other situations. There are
22 certain types of fetal anomalies that will lead to increased
23 amniotic fluid volume in polyhydramnios, which can start to
24 impair maternal efforts at breathing and normal respiration.
25 Situations like that, that could be an example? Not trying

1 to get you to list them all, just -- I suppose I could think
2 of some others.

3 Q. Okay. Please do.

4 A. Well, there are a number of fetal conditions that, in
5 theory, could start to cause maternal complications.
6 Another would be in a situation of a partial molar gestation
7 which is usually a triploidy type of genetic situation which
8 typically is a nonsurvival situation for a fetus that can
9 also lead to maternal hypertensive disease, and also
10 significant risk for bleeding. There is also a subset that
11 can cause malignant degeneration and risk concerns for the
12 mother for that as well. Do you want more?

13 Q. Yes. I would love them.

14 A. We have a patient in our practice right now with
15 conjoined twins, one of which is no longer living. And the
16 other one that is, who -- if you have conjoined twins that
17 are in later gestational ages and they are conjoined in an
18 area where there is not much hope for being able to separate
19 them, meaning conjoined, for instance, at the chest where
20 they have to share a single heart, that that situation can
21 also lead to a difficulty in trying to deliver that baby
22 vaginally. So it would necessitate an abdominal delivery.
23 If we knew that diagnosis early on, sometimes they could
24 still be delivered vaginally at earlier gestational ages.
25 I'm sure I could come up with others.

1 Q. Thank you, Doctor. That's great. Doctor, you have
2 never inserted laminaria, prior to doing a surgical abortion
3 where the fetus was living; is that right?

4 A. I'm not sure that is right. We do do laminaria
5 placement, especially before we had Misoprostol as our major
6 induction technique. We used to put laminaria in routinely
7 on patients that were going to have terminations of
8 pregnancy, whether by induction or by surgical technique.

9 MS. SMITH: May I approach, Your Honor?

10 THE COURT: Yes.

11 BY MS. SMITH:

12 Q. Doctor, I have just handed you a copy of your
13 deposition. It's in a mini-transcript form. I don't know
14 if you have seen this before but if you could turn to page
15 two 15, line 2 and tell me when you find it.

16 A. I have found it.

17 Q. The question there was, okay, and I'm sorry, Doctor, you
18 probably have answered this already, but have you ever
19 inserted laminaria prior to doing a surgical procedure to
20 terminate the pregnancy where the fetus was living at the
21 beginning of the abortion? Answer: No, because I don't
22 generally use D & E as my first line of treatment. And in
23 the scenarios where I had to use D & E, the cervix already
24 had some level of dilation. Was that your testimony at your
25 deposition, Doctor?

1 A. Yes, it was.

2 Q. And is that a true statement?

3 A. It is.

4 Q. Thank you.

5 A. I believe, as I understood your question, it was do we
6 every place laminaria before during terminations on living
7 fetuses. And I said that prior to using Misoprostol, that
8 was a way that we commonly did it. We put laminaria in
9 first, then we would proceed, whether it be medical or
10 termination. We used to place a lot more laminaria in years
11 passed than we do currently.

12 Q. Even for your D & Es; is that right? You're talking
13 about for medical induction?

14 A. I'm talking now more for medical induction because those
15 are the ones we do predominantly. But if we had a patient
16 that D & E was the necessary procedure we felt, we would
17 definitely do a preparation before doing a D & E, and that
18 would include laminaria or some sort of cervical dilator
19 placement.

20 Q. Okay. Thank you, Doctor.

21 A. You're welcome.

22 Q. You have no personal experience with Misoprostol for
23 surgical abortion; is that right?

24 A. I use Misoprostol almost daily in my practice, but we
25 use it for cervical ripening, for term inductions. And we

1 use it as our method of inducing to empty the uterus in the
2 mid trimester or the third trimester. Using Misoprostol as
3 a cervical ripening agent prior to D & E would be a
4 reasonable option, but, again, as I have stated before, D &
5 E is not something that is generally preferable nor required
6 in the type patients I care for.

7 Q. So you have no personal experience with Misoprostol for
8 surgical abortion?

9 A. I have a lot of experience with Misoprostol but not in
10 that specific area you're discussing.

11 Q. Thank you. Doctor, it's your opinion when you insert
12 the same amount of laminaria in two different women, the
13 laminaria will lead to a very predictable amount of
14 dilation; is that right?

15 A. I'm not sure very was part of my prior testimony, but
16 generally, it does lead to predictable amount of dilation.

17 Q. For example, Doctor, if you had two women at the same
18 gestational age, one was 16 years old, never had a child.
19 The other was 30 years old, had three vaginal deliveries,
20 you believe the same amount of laminaria would lead to the
21 same amount of dilation in those two women, don't you?

22 A. Well, those two women are different women, as you are
23 sort of suggesting, but the difference is in how many
24 laminaria can be placed, not where they end up. So each
25 laminaria has a prescribed, by the manufacturer, maximal

1 size that it will attain. They have to maintain certain
2 standards in order to be produced as a product. So they
3 have predictable amounts of dilation they cause, but you
4 certainly can put more in in a patient who is multiparous
5 and had children before.

6 Q. I think as you said in your deposition, the two women
7 might start out at a different point, but they would end up
8 at the same place?

9 A. If you place the same number of laminaria for both
10 women.

11 Q. There is no circumstance where they would dilate more
12 than the laminaria, for example?

13 A. That's not what I'm saying at all. If you are talking
14 about what they respond to as far as laminaria placement, it
15 is predictable. If you are talking about how they would
16 respond to other stimuli like uterine activity and things of
17 that nature, that does vary from patient to patient.

18 Q. I'm just talking about placement of laminaria, Doctor.

19 A. I have answered your question.

20 Q. Thank you. In your opinion, Doctor, in a D & E, the
21 physician would take steps to limit the amount of dilation,
22 in order to provide traction to assist in dismemberment;
23 isn't that right?

24 A. No. I believe my statement is not necessarily that they
25 would take steps to limit it -- that they would not see the

1 need to dilate beyond that which is necessary to deliver a
2 fetus. It would not make any sense to dilate more than is
3 necessary to deliver a fetus, particularly a smaller fetus,
4 with a smaller BPD at earlier gestational ages.

5 Q. Doctor, I have just handed you a copy of your expert
6 report, your final version, and if you could look on page
7 eight?

8 A. I'm on page eight.

9 Q. Doctor, at the end of the middle paragraph, you state
10 the physician planning to perform a D & E would take steps
11 to limit the amount of dilation of the cervical os in order
12 to provide some traction to assist in the dismemberment
13 process. Isn't that right?

14 A. That's right. I guess in your world, the term maybe is
15 that it wasn't as artfully phrased as it could have been.
16 My point is that there would be no reason in dilating more
17 than is necessary. So in that sense, they limit the amount
18 of dilation necessary, and the cervix is used as a point of
19 traction to assist in dismemberment, but the point of
20 limiting it isn't solely for the purpose of assisting the
21 process. It's to limit the amount of invasiveness required
22 for the procedure.

23 Q. And so the steps that you are referring to there that
24 they take to limit the dilation is really not to take
25 anymore steps to achieve greater dilation; is that right?

1 A. Right. It would be to do as minimally invasive a
2 procedure as possible.

3 Q. And, in your opinion, the physician has control over the
4 amount of dilation; isn't that right?

5 A. Well, you have control over how many laminaria you
6 place.

7 Q. But you said previously, Doctor, that if you place the
8 same amount of laminaria in two different women, even one
9 who is multi -- I'm going to say the word incorrectly.

10 A. Multiparous.

11 Q. Multiparous. And one who is nulliparous, you would end
12 up at the same place?

13 A. I'm not sure I understand the question.

14 Q. I'll withdraw it, Your Honor. Doctor, in your practice,
15 you have never treated a woman who has had a -- what you
16 call a partial-birth abortion; isn't that right?

17 A. To my knowledge, I have not treated a woman that's had a
18 partial-birth abortion. I was going to say, I have been
19 asked to review medical cases of women that have had the
20 procedure done, as part of my expert testimony for Congress.

21 Q. I see. But you didn't rely on those in forming your
22 opinion in this case, did you, Doctor? At least you didn't
23 disclose those us to, did you?

24 A. Well, I didn't recognize that that was something that I
25 was to disclose. When you're involved for the number of

1 years that I have been, it's hard to separate out where your
2 knowledge has come from over those years. But as part of my
3 official record which I believe was disclosed, my
4 Congressional testimony, it's included in there that I
5 reviewed clinical scenarios of several women that made their
6 records available that had this procedure done. To comment
7 specifically on the medical necessity of the procedure, the
8 need for it with their particular fetal and maternal
9 conditions, and the potential safety concerns of the
10 procedure.

11 Q. And Doctor, you perform only a handful of inductions
12 each year; isn't that right?

13 A. That is not correct, but would need clarification.
14 Induction meaning induction of labor, induction of abortion.

15 Q. I'm sorry, I mean induction abortions.

16 A. Induction abortions. I'm not sure how many a handful
17 is, but we frequently, probably on a weekly basis, need to
18 end a pregnancy because of a maternal medical condition.
19 Now, most of those situations are in situations beyond 23
20 weeks, where we are trying to get an optimal fetal outcome,
21 as well as an optimal maternal outcome. I did four of those
22 cases this weekend.

23 Q. Doctor, will you look at your deposition on page 258,
24 please. And go to line 21. Tell me when you get there.

25 A. I'm there.

1 Q. Okay. Okay. Is the question. Now, is it still the
2 case that in your practice, you do approximately three or
3 fewer induction abortions per year where the fetus is alive
4 at the beginning of the induction? Mr. Coppolino objects.
5 The witness: I'm not sure it's that small, but it's not a
6 large number. I just did one this weekend, but it probably
7 comes up once every few months.

8 MR. COPPOLINO: Excuse me, Your Honor, objection.
9 Did you say 58?

10 MS. SMITH: 258.

11 MR. COPPOLINO: Thank you, Your Honor.

12 THE COURT: That's fine. Hold on just a minute.
13 Let's make sure the lawyers -- have you got the page? Tell
14 me, Mr. Coppolino when --

15 MR. COPPOLINO: I am. Thank you, Your Honor.

16 THE COURT: Go ahead.

17 BY MS. SMITH:

18 Q. Is that what your testimony was at your deposition?

19 A. Yes, but it does require clarification.

20 Q. Okay.

21 A. In this line of questioning, I understood the
22 questioning that they were giving me here, since we were
23 referring to fetuses at 18 weeks, and doing D & Es, was that
24 they were referring to pre-viable medical inductions of
25 abortion, meaning those less than 23 weeks. That is a

1 scenario that comes up in a fewer number where we do maybe a
2 couple of month. And when I refer to I had done one that
3 weekend, it was a scenario of someone who had severe
4 pre-eclampsia at 22 weeks, and we needed to do that. But
5 when you asked the question previously, I understood it as a
6 medical induction to terminate or end a pregnancy, meaning
7 to deliver her prematurely. That is a scenario that comes
8 up much more frequently, something on the order of weekly.

9 Q. I'm sorry if my question wasn't clear, Doctor. I was
10 asking about induction abortions. Thank you.

11 A. Induction abortions pre-viable?

12 Q. Pre-viability. That's correct?

13 A. That was not my initial understanding. I'm sorry.

14 Q. As opposed to early terminations of pregnancy
15 post-viability; right?

16 A. Correct.

17 Q. We are on the same page.

18 A. Correct.

19 Q. Doctor, you have not written any articles about abortion
20 other than partial-birth abortion; is that right?

21 A. That is correct. I write articles, but that is not the
22 area I generally write about, with the exception of
23 partial-birth abortion.

24 Q. Okay. And you've not participated in any clinical
25 studies or research about abortion, including partial-birth

1 abortion; isn't that right?

2 A. Well, I don't have ongoing research right now, currently
3 in the area of abortion. I do do research and am still
4 doing research on issues related to cervical incompetence,
5 pre-term labor, and premature rupture of membranes, which
6 are some of the areas of concern regarding this procedure.

7 Q. In relationship to abortion or just those subjects by
8 themselves?

9 A. Just -- at this point, just those subjects by
10 themselves, but, certainly, a number of those patients have
11 had abortion procedures and they do make up a known risk
12 factor for those out comes.

13 Q. Doctor, I understand --

14 THE COURT: Doctor, I tell you what. You need, as
15 best you can, to answer counsel's questions directly or
16 she'll need to begin to be more aggressive, in control. I
17 understand your point, but try to answer the questions
18 directly and to the extent you can, don't volunteer. Thank
19 you.

20 MS. SMITH: Thank you, Your Honor.

21 BY MS. SMITH:

22 Q. Doctor, I understand that you do do some peer review of
23 articles, but you have never peer reviewed an abortion
24 article; is that correct?

25 A. It is correct that I do peer review, and it is correct

1 that I have not done a peer review for an abortion article.

2 Q. Thank you, Doctor. Doctor, the basis for your statement
3 in your expert report that the delivery of an intact fetus
4 prior to 20 weeks gestation, at the time of an intended D &
5 E, is highly unlikely given the fragile nature of the fetal
6 tissue at this gestational age is your experience; is that
7 right?

8 A. Could I have you repeat the question?

9 Q. Yes. I'm sorry. I know it's a complicated question.
10 There is a quote in your expert report. Let's start there.
11 You say the delivery --

12 A. Could I just have you direct me to where the page is.

13 Q. Definitely. That would have been a useful reference
14 point for you. I actually have your deposition cite where
15 you talk about it is what I have.

16 A. Should I look at this?

17 Q. Yeah. On page 76.

18 A. Where in the deposition now? I'm sorry.

19 Q. In the deposition, yes.

20 A. Not the expert report. Okay.

21 Q. At line 15, it talks about, okay. It talks about your
22 expert report on page six, so we can refer back. And I'm
23 sorry to do this to you, Doctor.

24 A. Now, back to the expert report?

25 Q. Yes. At the bottom of page six. Now I don't see it

1 there. Well, let's come back to that, Doctor. Page seven
2 at the top, the second full sentence, Doctor. The delivery
3 of an intact fetus, prior to 20 weeks gestation, at the time
4 of an intended D & E, is highly unlikely given the fragile
5 nature of the fetal tissue at this gestational age. That's
6 what you wrote; is that correct, Doctor?

7 A. That is correct.

8 Q. And that statement is based on your experience
9 performing abortions on demised fetuses; is that right?

10 A. Well, that's based upon the sum total of my experiences
11 with fetuses of that gestational age that we discussed
12 earlier, because we do do procedures on fetuses of this
13 gestational age that are not necessarily D & E procedures.

14 Q. Thank you, Doctor. Doctor, I would like to talk a
15 little bit about your opinion that so-called partial-birth
16 abortion is never medically necessary. Your definition of
17 medically necessary is, and I'll quote, necessary to
18 preserve the life of the mother or to improve upon her
19 medical condition over and above any other readily available
20 and commonly used alternatives. Is that right?

21 A. Could I ask where you are quoting from?

22 Q. Sure. In the deposition at page one 21.

23 A. I only ask, because sometimes if I see the context, it
24 will help clarify the question for me.

25 Q. Line two. Let's try line 10. What do you mean by the

1 term medically necessary, as you use it in this expert
2 report? Answer: I mean necessary to preserve the life of
3 the mother or to improve upon her medical condition over and
4 above any other readily available and commonly used
5 alternatives. Is that right?

6 A. That is correct.

7 Q. And expanding on that, you said that medically necessary
8 means something that quote, adds to the medical
9 armamentarium. That's on page one 22, line six to nine?

10 A. Okay.

11 Q. Is that right, Doctor? Do you agree with that?

12 A. Yes.

13 Q. So, Doctor, if there were a range of options that were
14 equivalent in risk and equivalent in cost or complexity,
15 then they would all be equally available as an option and
16 you would be hard pressed to justify adding a new
17 alternative; is that right?

18 A. That would be correct, and that would represent
19 redundancy.

20 Q. You anticipated my next question. A procedure -- but
21 it's also your opinion, isn't it, Doctor, that a procedure
22 can be medically necessary, even if it is medically
23 redundant, as long as it improves a particular calamity or
24 pathology at a particular time; isn't that right?

25 A. I believe I had testified that it could be medically

1 appropriate, but medically necessary means that you don't
2 have other safe or equivalent alternatives available to you.

3 Q. Doctor, can you look at page 123 on your deposition
4 starting at line five. Question: Are you there, Doctor?

5 A. I'm there, thank you.

6 Q. Question: Let's leave aside partial-birth abortion for
7 one minute. If you had another medical situation where
8 there were a range of different treatment options and all of
9 the options were equivalent in terms of risk, cost and
10 complexity, would you say that any single one of those
11 options was a medically necessary option? Mr. Coppolino:

12 Objection: The witness: Well, they are all on their
13 surface medically necessary, if they serve a purpose. They
14 may be medically redundant, but they are medically necessary
15 if they improve a particular, you know, calamity or
16 pathology at that particular time. Do you agree with that
17 statement, Doctor?

18 A. Yes. I think for clarification, I would say, and I
19 think this came up in the deposition, it would be like
20 having multiple options of a particular antibiotic available
21 to treat an infection. And most hospitals will select one
22 antibiotic on their formulary, since it would be redundant
23 to have multiple options that are all the same. So any one
24 that is the only one available may be medically necessary or
25 medically appropriate. But if you have multiple options

1 available, you don't necessarily need to have a fourth a
2 fifth or a sixth.

3 Q. But you also believe, don't you, Doctor, that it's rare
4 that all options are equivalent, because you need to
5 consider things like allergies, cost, availability, patient
6 preference and other considerations; isn't that right?

7 A. That is true. Again, for clarification, this is a
8 normal process we deal with in the hospital where the
9 hospital has determined -- in the area of antibiotics we are
10 speaking of, the pharmacy and therapeutics committee has
11 determined they, indeed, are equivalent in all of these
12 areas and oftentimes restrict which ones are available to us
13 and which ones aren't.

14 Q. You also believe, Doctor, don't you, that it's common to
15 review all alternative options and the risks and benefits
16 associated with each of those alternatives, and in
17 cooperation with the patient, to choose the best treatment
18 plan; isn't that right?

19 A. Well, that is true if the alternative options are
20 available and the risk and benefits are truly known.

21 Q. Thank you. And you also agree that reasonable
22 physicians can disagree about whether a particular treatment
23 is medically necessary; isn't that right?

24 A. I think they can disagree about which treatment is the
25 optimal treatment.

1 Q. Well, do you think they can disagree about whether a
2 particular treatment is medically necessary?

3 A. I guess I don't understand the question. There are
4 frequently differences of opinions about what is the best
5 approach to take with a particular patient. And that's why
6 patients sometimes seek second opinions.

7 Q. Doctor, can you look at the deposition on page 126 at
8 line 22? The question is, and can physicians disagree about
9 whether a particular treatment is medically necessary?

10 Answer: Physicians can disagree about the necessity for any
11 medical or surgical procedure. Question: Can reasonable
12 physicians disagree? Mr. Coppolino: Objection: Witness:

13 I believe that reasonable and unreasonable physicians can
14 disagree, but that's why patients sometimes seek second
15 opinions. That was your testimony; is that right, Doctor?

16 A. Yes. I thought that's what I just said but, yes, it's
17 my testimony.

18 Q. And you agree with that?

19 A. I do agree with that.

20 Q. Doctor, you do not believe that there is a significant
21 body of medical opinion that believes that D & E, not D & X,
22 D & E is sometimes the best option in the second trimester
23 between 16 and 20 weeks; don't you?

24 A. I'm not sure I have ever said that.

25 Q. Okay. Doctor, let's look at the deposition at page 137.

1 MS. SMITH: Your Honor, would you like a copy of
2 the deposition transcript?

3 THE COURT: Not unless you're going to get in real
4 detail or there is a fight about whether you're being
5 unfair.

6 MS. SMITH: Okay.

7 THE COURT: I presume Mr. Coppolino, in that
8 circumstance, would provide me with a copy. Go ahead.

9 MS. SMITH: I do have one here if Your Honor would
10 like one.

11 BY MS. SMITH:

12 Q. Doctor, page 137, line eight. Question: In your
13 opinion, is there a significant body of medical opinion that
14 believes that D & E is sometimes the best option in the
15 second trimester between 16 and 20 weeks? Mr. Coppolino:
16 Objection: The witness: The only data that I know that has
17 been most frequently cited about D & E as an option in the
18 mid trimester has been safety data that now is approaching
19 20 to 30 years of age. Comparing it to techniques that have
20 been used historically in the past, we now have new options
21 and new techniques that I believe are better. Ms. Gartner:
22 Question: Are you referring to new techniques for D & E or
23 new techniques for induction? Answer: New techniques for
24 emptying the uterus but predominantly induction. Question:
25 But, Dr. Cook, in your opinion, is there a -- leaving aside

1 the data for a minute. Answer: It's a hard thing to leave
2 aside but I will. Question: Is there -- thinking just
3 about medical opinion in this country, whatever it's based
4 on, is there a significant body of medical opinion that
5 believes that a D & E is sometimes the best option for a
6 second trimester termination? Mr. Coppolino: Objection.
7 I'm sure that there are individuals who believe --
8 individuals that believe that D & E may be the best option
9 for mid trimester termination of pregnancy. Mrs. Gartner:
10 Okay. Answer: In particular scenarios. Question: Do you
11 believe there is a significant body of medical opinion that
12 believes that D & E is the best option for most women
13 terminating their pregnancy in the second trimester? Mr.
14 Coppolino: Objection. The witness: I do not. Was that
15 your testimony, Doctor?
16 A. Yes, but, again, I feel the need to clarify it, now that
17 you put it in that context. If you ask me the question is
18 there exist tinge data that people have used looking at the
19 safety of D & E compared to contemporary methods of
20 induction of labor using contemporary agents, I would say
21 there is no such body of evidence, and that's what I was
22 referring to when I said there is not a large body of
23 evidence supporting that.
24 Q. But that's not what you were asked, Doctor, was it? You
25 were asked whether there was a significant body of medical

1 opinion. And you were asked to leave aside the data; isn't
2 that right?

3 A. I did not understand that to be the question. I
4 understood the question being that as it was presented
5 before, that the data has shown this to be true. And I
6 said, no, the data is not contemporary and does not show
7 that to be true. And then when asked to put aside the data,
8 I said it's difficult to do. I'm not sure what you want me
9 to answer.

10 Q. So, in other words, you don't agree with that statement.
11 Is that what you're saying, Doctor?

12 A. I would standby the testimony in my deposition. So if
13 you are asking me do I agree with what I attested to in my
14 deposition, the answer is yes.

15 Q. But, Doctor, in your deposition, you answered the
16 question is there a significant body of medical opinion that
17 D & E is sometimes the safest, and you said, no. And now
18 you're telling me that you misunderstood the question. So
19 I'm just trying to clarify. Did you misunderstand the
20 question, which is one thing, or do you stand by your
21 testimony that there is not a significant body of medical
22 opinion that D & E is sometimes the safest between 16 and 20
23 weeks of pregnancy?

24 A. Could I have just a little leeway, Your Honor, to try to
25 explain myself here?

1 THE COURT: Sure. And, Doctor, I'm going to have
2 her ask a question to you again. She appreciates that you
3 do not agree upon the reliance of the old numbers. What she
4 wants to know is regardless of people who may rely upon
5 those old numbers, are there -- I think what she wants to
6 know, are there docs now, although they may be as misinformed
7 because they are relying on old data, are there docs now who
8 hold competing views on this subject. I think that's what
9 she's asking, because she doesn't want to argue with you or
10 question you now on the old data versus new data. Now,
11 Counsel, put the question to the doctor again.

12 BY MS. SMITH:

13 Q. Thank you, Your Honor. The only clarification I would
14 make is that I'm not asking about whether there are just
15 random individuals out there. What I am asking is, is there
16 a significant body of medical opinion that believes that D &
17 E is sometimes the safest for a particular woman between 16
18 and 20 weeks of pregnancy?

19 A. I stand by my original statement. When I hear the
20 question significant body of medical opinion, to me that
21 means an informed body of medical opinion and medical
22 opinion that's derived from data. And so when I hear that
23 question, a significant body of medical opinion, to me, that
24 means an informed and accurate opinion. If you ask me are
25 there people that just have that feeling or that sense or

1 that predisposition or bias, then, yes. There certainly are
2 physicians that believe that. But do I believe that they
3 are making an informed and contemporary data driven
4 evidence-based medicine decision; I do not.

5 Q. So, Doctor, let me ask you this question. Is there a
6 significant body of medical opinion that holds that
7 induction abortion is sometimes the safest for a particular
8 woman between 16 and 20 weeks of pregnancy, using your
9 definition of significant body of medical opinion?

10 A. Again, there is data lacking comparing contemporary
11 induction methods versus other methods at that gestational
12 age.

13 Q. So you would say no?

14 A. I would say no.

15 Q. Thank you. Doctor, if you had a woman at 16 weeks who
16 needed to end her pregnancy, and she had a prior scarred
17 uterus, your preferred course would be to do a labor
18 induction using Prostaglandins; is that right?

19 A. Well, there are many things that come into our decision
20 in that situation, but what I testified to before, most
21 commonly, it's a single scar, low transverse uterine
22 segment. If that's the scenario, yes, I would recommend a
23 medical induction avoiding the use of Prostaglandin E1 or
24 Misoprostol; using Prostaglandins that have been
25 demonstrated as safe to use in that specific clinical

1 scenario.

2 Q. Okay. Thank you. But you do believe that there are
3 some women for whom a labor induction mid trimester abortion
4 would be absolutely contraindicated because the
5 physiological process of labor is contraindicated, right?

6 A. I don't know that I made the comment that it would be
7 absolutely contraindicated. There are relative
8 contraindications for certain maternal conditions which
9 could include certain types of previous trauma to a uterus.

10 Q. Well, Doctor, before we go to the deposition, let me
11 just ask you about two specific examples how about a woman
12 carrying conjoined twins. Is that an absolute
13 contraindication to labor induction abortion?

14 A. It's not an absolute contraindication, depending upon
15 the gestational age at which you are doing the procedure.
16 It is difficult to do, and is a relative contraindication,
17 when you're talking about doing it late in pregnancy or late
18 in the mid trimester.

19 Q. And by late in the mid trimester, you mean at what
20 gestational age?

21 A. Well, I'm always talking about 20 weeks and beyond,
22 because that's how the procedure was designed. And the
23 intact D & E, D & X partial-birth abortion was specifically
24 designed for 20 weeks and beyond. So I'm pretty much always
25 talking about that gestational age.

1 Q. So, right now, that's what you're talking about with
2 conjoined twins at 20 weeks or beyond, that is one situation
3 where labor induction abortion would be absolutely
4 contraindicated, but not at earlier gestational ages; is
5 that right?

6 A. Again, I'm not certain about the absolute
7 contraindication. It may be relatively contraindicated. As
8 I alluded to before, I have a conjoined twin pregnancy in my
9 practice right now. One of which has a single child that is
10 no longer living, and the other child is still living. We
11 are intending on trying to do a vaginal delivery for that
12 patient.

13 Q. What about a woman with an unstable intracranial
14 hemorrhage. Is that an absolute contraindication to labor
15 induction abortion or just a relative contraindication?

16 A. I would say a relative contraindication.

17 Q. Doctor, can you go to page 176 of the deposition? Line
18 four.

19 A. I'm there.

20 Q. Question: Are there women for whom you would not induce
21 a mid trimester abortion because the process of going
22 through labor is absolutely contraindicated for her? And by
23 that, I mean I'm distinguishing it from the particular
24 chemical agent, but just that the physiologic process of
25 going through labor is absolutely contraindicated. Are

1 there women for whom you would say that's the case? Mr.
2 Coppolino: Objection. The witness: Yes. That may be the
3 case. Ms. Gartner: Can you give me examples of those
4 situations? Answer: Well, those would be very rare
5 situations. One might be the situation of conjoined twins,
6 another might be a situation of a woman with an unstable
7 intracranial hemorrhage, but there are very few
8 contraindications to labor. And then you go on to discuss
9 some conditions that are not contraindications and some
10 conditions that are relative contraindications. Was that
11 your testimony, Doctor?
12 A. Yes. I chose the words very carefully, and when I say
13 one might in the situation of conjoined twins and another
14 might be the situation of a woman with an unstable
15 intracranial hemorrhage, I mean there are some situations of
16 conjoined twins and some situations of intracranial
17 hemorrhage where we may choose not to labor the patients.
18 There are other situations of conjoined twins and
19 intracranial hemorrhage where we might allow them to labor.
20 It is an individually determined situation based upon that
21 patient's situation.
22 Q. So there are some patients with that condition where it
23 would be an absolute contraindication, and there are some
24 patients for whom it's only a relative contraindication. Is
25 that what you're saying, just so I understand?

1 A. What I'm saying is it's a relative contraindication
2 meaning you have to evaluate each patient individually and
3 decide what you think is the best option. When I say
4 absolute contraindication, an absolute contraindication
5 would be in a situation like a placenta previa, where you
6 can't deliver the baby without excessive bleeding. If I
7 have a patient with an intracranial hemorrhage and she is
8 laboring and about to deliver her baby, I'm not going to
9 stop and do cesarean section just before the baby comes out.

10 Q. I'm not talking about a situation where a woman comes in
11 in labor, Doctor. I'm talking about a situation where you
12 would induce a labor induction abortion. My question was,
13 if you had a woman with than unstable intracranial
14 hemorrhage, would you induce a labor induction abortion on
15 her.

16 A. Well, the question was, do you believe -- it says a term
17 of labor is absolutely contraindicated. I don't know if
18 that meant a trial of labor. That was the question put to
19 me in the deposition.

20 Q. And that's when you said it was absolutely
21 contraindicated, right?

22 A. That's when I said that this is a situation where it
23 might be contraindicated.

24 Q. Okay. Doctor, you don't believe that labor induction is
25 absolutely contraindicated in a woman with an inadequate

1 pelvis that was secondary to some type of trauma, do you?

2 A. I do not believe it's an absolute contraindication. It
3 may be a relative contraindication. Again, it requires
4 evaluation of individual patients.

5 Q. Hock. Doctor, let's move on to another situation.

6 Doctor, in a patient who is 22 weeks pregnant, she has
7 unstable bleeding in her brain and a vaginal hemorrhage that
8 cannot be stabilized, and where you decide ultimately you
9 have to empty the uterus. You believe that the optimal way
10 to do that would be to try to deliver the fetus vaginally,
11 i.e., by induction or by facilitation of a natural delivery
12 process that might occur; isn't that right?

13 A. Are you referring to a particular statement I made
14 somewhere.

15 Q. Well, yes, Doctor, I am. On page 178.

16 THE COURT: Doctor, just so you know, I won't let
17 the lawyers -- they have to ask you the question in the way
18 counsel is doing because it's improper for them to go to a
19 deposition and wave it around in the beginning of the
20 question, because it implies that there is something that
21 you have said that is inconsistent. So the lawyers have to
22 put the question to you, irrespective of whether they know
23 you made a similar -- they think you made a similar
24 statement. So counsel is not being cute with you. It's
25 just the way the rules require her to approach it. Go

1 ahead, counsel.

2 THE WITNESS: Could I ask a clarify question, Your
3 Honor?

4 THE COURT: Sure.

5 THE WITNESS: Is it appropriate for me to ask, when
6 she asks a question that has been put to me in some form
7 before, to try to understand the context in which the
8 question was put to me?

9 THE COURT: Sure. Within reason, as long as you
10 really are trying to clarify and, sure. If you want to ask
11 her, did I make that statement before or something like that
12 so that you can be -- she can cue you in, that's fine. I
13 just want you to know that the process is not designed to be
14 tricky but respectful. So if you want some clarification,
15 if it's a true clarification, you ask it, and counsel should
16 give to you.

17 THE WITNESS: I had a specific reason why I asked
18 that, because generally if you are talking about a patient
19 who is having vaginal bleeding and has an unstable maternal
20 condition like bleeding in her brain, then generally the
21 approach we would think is the safest is to go and do an
22 operative procedure to empty her uterus in the most
23 expeditious manner possible, which would be a cesarean
24 delivery or hysterotomy. That's why I was surprised when
25 you said I would deliver her vaginally. So I wanted to know

1 the context in which I was asked that question.

2 BY MS. SMITH:

3 Q. Doctor, that's where I was going. You anticipated where
4 I was going. Because, initially, it may be improper of me
5 to say this, so I won't. But if induction or facilitation
6 of a natural delivery process was the first choice, then the
7 next question was going to be: Your next option would be a
8 hysterotomy, because in your opinion, at 22 weeks, a D & E
9 is very complicated and dangerous procedure; is that right?

10 A. You're asking me to accept that whole premise. And I
11 agree that hysterotomy was my preferred method, but it's not
12 because I think D & E is inherently a more dangerous method.
13 It's because if a patient is having vaginal bleeding, we
14 don't want to make a bad situation worse by doing more
15 vaginal surgery on her. We want to try to empty the uterus
16 in the most controlled, expeditious manner possible, which
17 would mean emptying it abdominally. Because the scenario,
18 at least always you propose it to me, was the patient
19 unstable also with vaginal bleeding. So it's not because I
20 think D & E is a bad procedure or unsafe on its surface. I
21 think it's not the appropriate procedure for the case you
22 presented.

23 Q. Okay. So in that case, you would prefer a hysterotomy;
24 is that correct?

25 A. I believe that would be the best treatment route in the

1 case you presented.

2 Q. And actually, Doctor, in your opinion, at 22 weeks a
3 hysterotomy is safer than a D & E; isn't that right?

4 A. I'm not sure what that is based upon either. What I
5 think I said before, is that when you look at various
6 methods of doing a surgical procedure or emptying a uterus,
7 and you get beyond 18 weeks gestation, all the methods are
8 of similar risk.

9 Q. Doctor, could you look at page 183? Line 15. And I
10 apologize this is going to be a long colloquy, but I think
11 it's all needed to make sense. Question: Let's say that
12 she has -- she has been diagnosed with breast cancer and she
13 needs to start radiation treatment right away. Answer:
14 Okay. Then I would advise her to wait a few weeks and have
15 Betamethasone or antenatal steroids administered. She could
16 have a viable baby with no impact on her health with her
17 breast cancer question. Question: If she was insistent,
18 she was nervous about letting the breast cancer be untreated
19 for that time period, and she understood your personal view
20 was maybe she should wait, but she was insistent that she
21 felt she couldn't wait, and she wanted your advice about
22 which would be safer for her, D & E or hysterotomy at 22
23 weeks, what would you advice here. Mr. Coppolino:
24 Objection. The witness: I would advise her to talk to the
25 other medical oncologists to see what their opinion about

1 the necessity of immediate treatment is. By Ms. Gartner:
2 Question: But if she asked you, would you give her -- if
3 your patient asked you specifically for advice about the
4 safety of two gynecological procedures, D & E or hysterotomy
5 at that gestational age that she was, would you answer her?
6 Answer: I would. But my role is to help take care of the
7 patient. And so she's asking a question that is not the
8 appropriate question. We need to help her ask the
9 appropriate question, and the appropriate question is, does
10 she need to be delivered right now. Question: Okay. And
11 if she said, I understand, Doctor, and I intend -- see, I
12 have an appointment set up with another oncologist. I'm
13 looking into all my options. But I need to be planning. I
14 need to be thinking about it. If I decide I need an
15 abortion, which do you think would be safer for me, D & E or
16 hysterotomy. Answer: Hysterotomy. Was that your
17 testimony, Doctor?
18 A. It was. Again, I hope you understand I'm answering as I
19 understood this specific case scenario. I did not
20 understand the question to be what is safer at 22 weeks, D &
21 E or hysterotomy. I was understanding the question to be,
22 in this case scenario, what would be the safer procedure.
23 We did cover this ground the that people with breast cancer
24 do more commonly have other problems like anemia,
25 thrombocytopenia, it would make a surgical procedure that is

1 a less controlled surgical procedure a riskier. A surgical
2 procedure a surgical procedure that is a more controlled
3 procedure like hysterotomy would be the preferred route in
4 this particular patient. But this is not meant to be a
5 comment on the relative safety, or lack thereof D & E and
6 hysterotomy in all case scenarios at 22 weeks.

7 Q. So, Doctor, it's your opinion a hysterotomy is a more
8 controlled surgical than a D & E; is that right?

9 A. At that gestational age, for that issue related to
10 bleeding, I believe that it is a more controlled surgical
11 procedure.

12 Q. Doctor, are you aware of the mortality rates for
13 hysterotomy versus D & E?

14 A. I'm aware that the hysterotomy and the D & E mortality
15 rates, as I understood them, from the data that has been
16 available that I have reviewed, are similar when you get
17 beyond 20 weeks gestation.

18 Q. Doctor, can you look at Defendant's Exhibit 577, please?

19 A. Do I have that exhibit?

20 THE COURT: Counsel will help you. It's in one of
21 those big books, Doctor.

22 THE WITNESS: That was number 577.

23 MS. SMITH: That's correct.

24 THE WITNESS: Thank you. Small print.

25 BY MS. SMITH:

1 Q. I apologize, Doctor. I know it's very hard to read.

2 THE COURT: You want to put it on the screen, we
3 can magnify it, and Ms. Beran, if you want to help counsel,
4 that would be good.

5 MS. SMITH: Here is a larger print size.

6 THE WITNESS: This is the 1985 article from Dr.
7 Corson.

8 MS. SMITH: Yes.

9 THE WITNESS: Okay.

10 THE COURT: Counsel is handing you a larger print
11 version of it apparently.

12 BY MS. SMITH:

13 Q. Doctor, this is an article entitled Morbidity and
14 Mortality from Second Trimester Abortions, Grimes and
15 Schultz are the authors. It is a 1985 document. In the
16 first paragraph of the study, the mortality rate - let's
17 see, halfway down in that paragraph, there is a sentence
18 that starts an analysis. Can you read that sentence for me.
19 Do you see that, Doctor?

20 A. I'm sorry. Could you direct me one more time?

21 Q. It's in the first paragraph that's italicized.

22 A. It's in the abstract.

23 Q. Yes.

24 A. Um-hm.

25 Q. In the middle of the abstract, there is a sentence that

1 says an analysis of abortion mortality. Can you read that
2 for me, please?

3 A. Yes, down to what level?

4 Q. Just the sentence itself.

5 A. An analysis of abortion mortality in the United States
6 from 1972 to 1981, revealed a death to case ratio of 4.9 per
7 100,000 abortions associated with D & E. 9.6 with
8 installation methods, and over 60 with hysterotomy and
9 hysterectomy.

10 Q. Thank you, Doctor.

11 A. Was there a question? I'm sorry. Or was I just
12 supposed to read it.

13 Q. Is that what the Grimes paper reports, Doctor, the
14 hysterotomy rate is 60 per 100,000, and the D & E rate is
15 4.9 per 100,000?

16 A. I'm afraid it's not that simple. They are looking at D
17 & Es across all gestational ages. As I understood what we
18 were discussing, it was the later gestational ages at 20
19 weeks and beyond. If you look at that data, including
20 Grimes has published and the CDC makes available, the
21 mortality rates become indistinguishable at the later
22 gestational ages. If you look at all D & Es, they'll have a
23 lower mortality rate.

24 Q. Okay. Doctor. We'll come back to that. Doctor, you
25 testified that it's not -- and this was during your direct,

1 that it's not accurate to compare D & E to D & X, because D
2 & Es are performed at earlier gestational ages and that
3 induction abortions are performed at later gestational ages.
4 Is that right?

5 A. That is correct. Well, that's one of the reasons I
6 don't think it's appropriate to compare them.

7 Q. Okay. Doctor, could you look at Plaintiff's Exhibit 32
8 and let me help you get that.

9 A. I think I have it.

10 Q. Okay. And, Doctor, that's the morbidity and mortality
11 weekly report published by the CDC; is that correct?

12 A. That is correct.

13 Q. And that was published on November 28th, 2003?

14 A. Correct.

15 Q. And it's entitled Abortion Surveillance: United States,
16 2000; is that right?

17 A. Correct.

18 Q. Have you seen this document, Doctor?

19 A. I'm not certain that I have.

20 Q. Okay. Doctor, can you turn to page 32, please, and look
21 at table 18.

22 A. We are getting.

23 THE COURT: Is this document in evidence?

24 MS. SMITH: Not yet, Your Honor. I was going to
25 move it in.

1 THE COURT: Well, before you question him about it,
2 I suppose we ought to have it in evidence, don't you think?

3 MS. SMITH: Okay. Your Honor, I would like to move
4 Plaintiff's Exhibit 32 into evidence.

5 THE COURT: Okay. Is there an objection?

6 MR. COPPOLINO: I believe there is, Your Honor. I
7 just need to double check my exhibit list.

8 THE COURT: Do I understand the Government to be
9 objecting to the Government's own publication on hearsay
10 grounds?

11 MR. COPPOLINO: Probably, we may well be. What's
12 the number. 32. Yes. Hearsay.

13 THE COURT: Well --

14 MS. SMITH: I believe that the Government also
15 offered this as an exhibit.

16 THE COURT: Well, I'm going to overrule the
17 Government's objection to its own publication. It's
18 received.

19 MS. SMITH: Thank you, Your Honor.

20 BY MS. SMITH:

21 Q. Doctor, did you find page 32 and table 18, sir?

22 A. I got a little confused in the other activity. I
23 apologize, but I do have it now.

24 Q. Okay. And, Doctor, that's a table entitled Reported
25 Legal Abortions by Known Weeks of Gestation and Type of

1 Procedure: Selected States, United States 2000; is that
2 right?

3 A. Yes.

4 Q. And I believe, Doctor, that you've testified before that
5 when you were talking about later abortions, you're
6 referring to 20 weeks and beyond or around that time period;
7 is that right?

8 A. Well, yes, that's the time period I chose was that --
9 was the time period chosen by the practitioners of the
10 procedure we are talking about.

11 Q. Okay. We'll get to that point later, Doctor, but right
12 now, under type of procedure, the first listing is curettage
13 and in parenthesis, suction or sharp; is that right?

14 A. Correct.

15 Q. And if you see the little asterisk on there, if you look
16 down to the bottom, the little cross asterisk says includes
17 dilatation and evacuation. Is that right?

18 A. Correct.

19 Q. And then if you go over by weeks of gestation to greater
20 than or equal to 21 weeks?

21 A. Yes.

22 Q. The percentage -- do you see the percentage figures
23 there, Doctor?

24 A. I do.

25 Q. And it lists 85%, doesn't it, for the curettage

1 procedures at 21 weeks or greater. Is that right?

2 A. It does.

3 Q. And if you add up all the other categories, there is
4 intrauterine saline installation, intrauterine Prostaglandin
5 installation, medical -- which I assume means other types of
6 medical abortions, and even the other category. That adds
7 up to 15.1 percent, doesn't it, Doctor?

8 A. Well, that would be .1 percent more than a hundred but
9 15%, yeah.

10 Q. They must have rounded up or down there. I guess
11 rounded up. So, Doctor, it's true, isn't it, that there are
12 many, many more curettage, meaning D & E procedures,
13 occurring at 21 weeks and greater, than medical induction
14 abortions, isn't that right?

15 A. I don't agree with that. This is solely reported data,
16 self-reported data, from selected states. I don't believe
17 this represents comprehensively what's happening in this
18 country.

19 Q. So you think there are maybe -- just look back at the
20 numbers again. They were in order of 7,500 D & E abortions
21 at 21 weeks or greater on here, and maybe a thousand of the
22 others, 1,200 of the others. You think there are another
23 6,000 medical induction abortions at 21 weeks or greater out
24 there floating around that haven't been reported; is that
25 what you're saying?

1 A. What I'm say is I don't believe they necessarily
2 inflated the curettage numbers. I think there may be
3 underreporting of the medical termination procedures,
4 because not all of those procedures are listed by providers
5 as terminations, if they are done at a point where the baby
6 has viability, which start at 23 weeks. So I don't think
7 they are reporting those when they are doing medical
8 inductions to deliver a mom at 24 weeks as an abortion
9 procedure.

10 Q. Right, so my question was, you think they are in order
11 of six, 7,000 unreported installation, rather medical
12 abortions out there not reported?

13 A. Not installations, but I believe --

14 Q. Medical abortions?

15 A. I believe there are tens of thousands of instances of
16 medical induction of labor at 23 weeks and beyond that
17 people are not reporting as an abortion, because they are
18 not doing anything to intentionally destroy the fetus. They
19 are just trying to induce the labor and proceed with having
20 the mother recover from her pregnancy. So I think it's a
21 very misleading statistic, when you're looking at this chart
22 that way.

23 Q. I see. And that's your intuition, is it, that there are
24 these many, many more procedures being performed?

25 A. No. We do, in our own hospital, more medical inductions

1 for 23 weeks and beyond than they have reported for the
2 whole sum total of their United States.

3 Q. But, Doctor, you're talking about early deliveries; is
4 that right? You're talking about post-viability deliveries.
5 You're not talking about abortions where's the intent is to
6 result in fetal death; is that right?

7 A. The intent is to separate the fetus from the mother.
8 And if we are talking about how often a medical induction
9 procedure is done, and is it safely done, which is my
10 understanding of what you're asking, it is done by the order
11 of tens of thousands all the time in multiple hospitals
12 around the country and done very safely.

13 Q. Okay. Doctor, you believe that a partial-birth abortion
14 involves up to ten times the amount of dilation of the
15 cervix than a D & E, is that right?

16 A. Based upon the submitted testimony of the practitioners
17 of the submitted procedure, yes.

18 Q. So, Doctor, how would that work if you get -- how many
19 centimeters of dilation do you get in a D & E?

20 A. Well, generally they would try to achieve something in
21 the order of two or three centimeters, and may try to
22 achieve something more on the order of four to six
23 centimeters or more with the D & X procedure.

24 Q. But four to six isn't ten times two to three, is it?

25 A. I was basing that on the number of dilators they place.

1 They have admitted to placing up to take to 30 dilators.

2 Most practitioners of D & E that I'm aware of may place two,
3 three or four dilators.

4 Q. So what you meant to say, the dilation involves up to
5 ten times the amount of laminaria; is that right?

6 A. That is correct.

7 Q. It's your belief, isn't it, Doctor, that a D & E between
8 22 and 24 weeks poses significant risks for maternal
9 mortality; is that right?

10 A. I believe it poses greater risks than those done at the
11 earlier procedures. Earlier gestational ages, I'm sorry.

12 Q. You believe it poses significant risks, don't you?

13 A. I do.

14 Q. Doctor, sometimes when you have performed an induction
15 abortion previously, you have had to perform a D & E; isn't
16 that right?

17 A. That is correct.

18 Q. And it's your opinion that in a case where you're
19 performing an induction abortion, and the fetus's head
20 became stuck, and you were forced to perform a D & E to
21 remove the fetus, that a Duhrsen's incision would be a safer
22 procedure in the case of fetal head entrapment than
23 collapsing the fetal skull with forceps; isn't that right?

24 A. Could I have us just repeat the question one more time?
25 I'm sorry.

1 Q. It's your opinion, Doctor, that in a case where your
2 performing an a induction abortion, and the fetus's head
3 became stuck, and you were forced to perform a D & E to
4 remove the fetus that a Duhrsen's incision would be a safer
5 procedure, in the case of fetal head entrapment, than would
6 collapsing the fetal skull with forceps?

7 A. Well, there are several elements there that I don't
8 agree with in your statement and some that I do. When we
9 are doing an induction, and the after coming head becomes
10 trapped, we don't do a D & E procedure. We have multiple
11 options available in order to try to facilitate the
12 remaining portion of the baby to be delivered, meaning the
13 after coming head. And those options include medical
14 treatments of the mother with agents that help relax the
15 uterus, like nitroglycerin is one that be use. One of the
16 other options would be to place after coming forceps on the
17 head. Another option would be to make Duhrsen incisions to
18 create more room for the cervix. Another option would be to
19 do some sort of crushing procedure on the baby's head or
20 some sort of suctioning or evacuation of the fetal brain
21 contents. Those are all options available. Then if you ask
22 me what I believe are the best options, I believe the best
23 options would be the first three. Medical relaxation of the
24 cervix, forceps for after coming head, or Duhrsen incisions.
25 Did that answer your question?

1 Q. So if the medical relaxation of the cervix didn't work
2 and the forceps didn't work, you would do a Duhrsen's
3 incision; is that correct?

4 A. That's correct.

5 Q. You explain to the Court what a Duhrsen's incision is?

6 A. A Duhrsen's incision is taking a scissor and making a
7 one to two centimeter cut on the cervix. We usually do it
8 either at 12:00 o'clock, or we'll do it at like 4 or 7:00
9 o'clock, in order to try to avoid the major blood vessels on
10 the cervix. And then if need be, do a surgical or suturing
11 of that area of after the delivery.

12 Q. So, for example, if this cup is the cervix, you would
13 make incisions like that? Is that right? Around the top?

14 A. You would make one incision and see if that -- and that
15 frequently is fluff to release the after coming head. And
16 then sometimes we don't even need to repair it, because when
17 a woman delivers, she frequently has cervical lacerations as
18 well, in a normal situations. What we do is if it looks
19 like it's bleeding, we tend to repair it. If it looks like
20 it's not bleeding, we tend not to put suture in it just to
21 reduce the risk for adhesion formation and other
22 manipulation.

23 Q. Doctor, just to clarify, did you say that the
24 compression would be tried before the Duhrsen's incision or
25 after?

1 A. In my opinion, it would be a latter choice. It would be
2 a less favorable choice.

3 Q. Okay. And, Doctor, do you believe a Duhrsen's incision
4 is more gentle than dilation using osmotic dilators?

5 A. I do believe that that is the case. It's a single
6 incision that's done in a portion of the cervix with
7 immediate repair.

8 Q. Doctor, is it part of the natural physiologic process?

9 A. It is observed frequently as part of the natural
10 physiologic process of labor. We frequently see cervical
11 lacerations in that area.

12 Q. So it's your contention that a Duhrsen's incision is
13 part of a natural physiological process, because sometimes
14 the cervix tears during delivery?

15 A. That's exactly what I'm saying.

16 Q. Okay.

17 A. In the same location.

18 Q. So, Doctor, is it your contention that a procedure that
19 causes injury to the cervix 100% of the time, meaning one,
20 two or three, one to two-centimeter long incisions through
21 the cervix, with the resulting scarring that would occur
22 because of stitching, is less likely to cause cervical
23 incompetence than slow dilation using osmotic dilators over
24 a period of one to two days?

25 A. Well, I'm not sure how to answer that. I don't agree

1 with all of your adjectives. But, yes, I do believe a
2 single surgical incision on the cervix, which is observed as
3 a natural process of delivering a child's head in other
4 situations is a procedure that can be done safely and can be
5 repaired easily and result in good outcomes. It's a very
6 much more complex issue, when you talk about disrupting the
7 integrity of the intactness of the cervix by dilating it
8 forcibly over a period of time. That zone of injury goes to
9 the entire cervix, not just to the area we are making an
10 incision. By correlation, I'm also operating frequently in
11 the past couple of weeks, it seems like, on patients that
12 have cervical cells that are abnormal in their cervix. And
13 during the course of the pregnancy, we are actually removing
14 the lower portion of their cervix. And they seem to do
15 quite well with those pregnancies and subsequent
16 pregnancies. And there are publications looking at people
17 that had prior conizations where they are actual removing a
18 significant lower portion of the cervix, and they still have
19 successful pregnancy outcomes.

20 Q. So you don't believe a Duhrsen's incision violates the
21 integrity of the cervix?

22 A. Not to the degree that I believe it does when you're
23 putting multiple laminaria into the entire length of the
24 cervical canal.

25 Q. Okay. Doctor, moving on, you believe that at about 18

1 weeks, D & Es become more complicated and require more
2 expertise than you have, is that correct?

3 A. Well, I believe that they become more complicated in a
4 gradation type fashion, as you get to increasing gestational
5 ages. The further a long you are, the more complicated they
6 are. That means that generally, those are procedures that
7 you would want to have done by people that have the greatest
8 experience at those gestational ages. I do not have
9 personal grade experience at doing D & E procedures at later
10 gestational ages.

11 Q. And, Doctor, you believe that induction -- I think you
12 testified to this this morning. You believe that induction
13 becomes a safer method than D & E, once you get beyond 20
14 weeks and certainly beyond 24 weeks; is that right?

15 A. Well, I believe that the relative benefit of D & E
16 starts to fade away, as you get to the later gestational
17 ages.

18 Q. And you believe that induction is safer at that point;
19 is that right, after 20 weeks?

20 A. Induction using modern techniques and modern agents, I
21 do believe, yes.

22 Q. Are there any randomized controlled trials establishes
23 that induction is safer than D & E past 20 weeks?

24 A. I'm not aware of any using modern day induction
25 techniques.

1 Q. And, Doctor, you believe that some of the danger of D &
2 E at these later gestational ages is the difficulty of
3 disarticulating the fetus; is that right?

4 A. No. There are multiple things that make it more
5 complicated at later gestational ages. A larger more
6 distended uterus, a larger fetus, greater calcification of
7 the fetus. More difficulty disarticulating the fetus, as
8 you mentioned. More cervical dilation than is necessary.
9 There is a number of reasons why it becomes more complicated
10 later on.

11 Q. Doctor, you believe at the same gestational age, just
12 focusing on the extraction portion of the second trimester
13 surgical procedures, leaving aside the dilation portion, you
14 think D & E and intact D & E are a comparable risk, don't
15 you?

16 A. I think that the same gestational ages, they are
17 probably of comparable risk. If you are looking only at the
18 issue of extraction. But if you are looking at different
19 gestational ages, it's always going to be riskier at the
20 later gestational ages.

21 Q. My question was just about the same gestational ages and
22 just about extraction, Doctor. So you would agree with
23 that; is that right?

24 A. Yeah, I'm sorry. I didn't hear you say the same
25 gestational ages.

1 Q. Yes. I did.

2 A. Yes.

3 Q. Doctor, you have also testified that certain aspects of
4 an intact procedure may be safer than a nonintact procedure
5 such as fewer instrumental passes. The fact that it would
6 be easier to extract the fetus with more dilation and that
7 there would be a shorter time of extraction; is that right?

8 A. What I believe I testified to in the past would be that
9 an intact D & E or D & X procedure may be a preferable
10 procedure at the same gestational age than a D & E, if you
11 are able to have less need for instrumentation inside the
12 uterus. I don't know that that is always the case in that
13 situation, but anything that can reduce the amount of
14 instrumentation necessary would be a preferable way to
15 deliver. I believe the least number of instrumentation
16 necessary would be medical induction, which is why I think
17 that's the optimal way to deliver.

18 Q. I didn't ask you about medical induction, Doctor. I was
19 asking you just about D & E and D & X. If you would just
20 answer my questions, okay.

21 A. Sorry.

22 Q. Doctor, you have testified that it would be nicer, I'm
23 talking about surgical abortions now. It would be nicer to
24 have a more dilated cervix to work with. A more intact baby
25 with less need for intrauterine disarticulation and

1 manipulation; is that right?

2 A. The same answer as before. The less in intrauterine
3 manipulation necessary, the better the procedure, as far as
4 risk would go.

5 Q. Your main concern with the intact procedure in terms of
6 safety to the woman is with the amount of cervical dilation.
7 You have expressed that on a number of occasions, I think;
8 is that right, Doctor?

9 A. Again, I'm sorry. We are kind of going back and forth
10 could you repeat that question again?

11 Q. Yes. Your main concern with the intact procedure is
12 with the amount of cervical dilation; is that right?

13 A. That is one of my concerns, but it's not the only
14 concern.

15 Q. Okay. I thought it was your main concern. I understood
16 you also were concerned about the internal podalic version
17 as well?

18 A. Well, it is my main concern for long-term complications.
19 My main concern for short-term complications is amount of
20 manipulation, internal podalic version, and the things that
21 I have been talking about this last few minutes. You
22 understand I have concerns about the short-term and
23 long-term.

24 Q. I understand, Doctor. Thank you. Doctor, your basis
25 for saying that partial-birth abortion or intact D & X, or

1 however you would like to refer to it, is less safe than D &
2 Es is extrapolation, isn't it? You're extrapolating from
3 other data?

4 A. Well, I'm basing it upon the best data that we have
5 available, which would be the data provided by the
6 practitioners of the procedure. And part of that data is
7 driven by the gestational age at which they are performing
8 the procedure. And then part of it is based upon existing
9 data using similar techniques, meaning internal podalic
10 version and things of that nature. So, yes, some of the
11 risks have to be drawn out or elucidated from other existing
12 data that uses similar techniques or addresses similar
13 gestational ages.

14 Q. So let's take those things twice. I think you said
15 later gestational ages that the procedure is performed, the
16 so-called partial-birth abortion is performed at later
17 gestational ages. So you could extrapolate from that and
18 see that it would be more dangerous than procedures
19 performed at earlier gestational ages, right? So, Doctor,
20 assuming that you were performing an intact D & E at 22
21 weeks, and a D & E at 22 weeks, they are at the same
22 gestational age, wouldn't that affect your calculations?

23 A. My calculations of what?

24 Q. Your opinion about the relative safety?

25 A. Well, it would nullify the concern of different

1 gestational ages, but it wouldn't nullify the other concerns
2 like more cervical dilation, internal podalic version,
3 internal manipulation.

4 Q. Okay. Thank you, Doctor. Doctor, I am jumping around a
5 bit and I apologize for that. It was a bit of a late night
6 last night. I'm going to jump to another topic then we'll
7 jump back. And I'm not doing it to try to confuse you. I
8 think I'm confusing myself just as much. But I would like
9 to ask you just a few questions about fetal demise and
10 inducing fetal demise in an abortion procedure. In
11 induction abortions, you have never used Digoxin or KCL to
12 induce fetal demise in performing inductions, because you
13 always considered it unnecessary; isn't that right?

14 MR. COPPOLINO: Objection. Your Honor, to the
15 extent the scope of the witness's expert report matters, the
16 subject is not within the scope of his expert report or was
17 it within the scope of his direct examination.

18 MS. SMITH: He testified about it at his
19 deposition, Your Honor.

20 MR. COPPOLINO: He was asked about it at his
21 deposition but it is not within the scope of either his
22 expert report or with the direct examination this morning.

23 THE COURT: Let me tell you that when I need a
24 colloquy, I'll tell you. And right now, I don't need one,
25 because I'd like to know what the doctor does and doesn't

1 do. That area wasn't inquired into, but it will help me
2 understand what he does and doesn't do. If you go very much
3 farther than this area, then counsel's point is well taken.
4 So it's overruled.

5 MS. SMITH: I have four very limited questions,
6 Your Honor.

7 THE COURT: Well, we'll see.

8 MS. SMITH: Okay.

9 THE COURT: The objection to this one is not good,
10 or at least I don't think it is, so you go ahead.

11 BY MS. SMITH:

12 Q. Doctor, the question was, in inductions, you have never
13 used Digoxin or KCL to induce fetal demise in performing
14 inductions, because you always considered it unnecessary; is
15 that right?

16 A. That is not correct. I have not utilized those
17 techniques but not because I consider them unnecessary ever.
18 They haven't been necessary for my clinical situations,
19 because the people that utilize those techniques utilize it
20 so they can guarantee that there is not a live born baby at
21 time of delivery. And, if possible, I want a live born baby
22 at time of delivery. They also may use it to try to induce
23 a demise to facilitate their ability to disarticulate a
24 fetus, and it is not generally the type of abortion
25 technique that I'm using when I need to deliver a woman. If

1 I did, indeed, feel that my only option available was a
2 disarticulation procedure, I guess I would consider that as
3 an option.

4 Q. Doctor, my question was in reference to the induction
5 abortions and just to the abortions you have performed. I'm
6 not asking you to opine about whether it would be useful or
7 not in every situation, but just in the induction procedures
8 that you performed. So I'll ask you again. In the
9 induction procedures that you've performed, you have never
10 used Digoxin or KCL to induce fetal demise, because you
11 always considered it unnecessary in those procedures; is
12 that right?

13 A. You're correct. It would be unnecessary in those
14 procedures.

15 Q. You agree, don't you, Doctor, that injecting Digoxin or
16 KCL reduces risk?

17 MR. COPPOLINO: I'll renew my objection, Your
18 Honor.

19 THE COURT: That will be overruled. You may
20 answer.

21 THE WITNESS: Every invasive procedure we do
22 entails risk. We do invasive procedures frequently on
23 fetuses, and we frequently inject them with different
24 medications. Is that the question?

25 BY MS. SMITH:

1 Q. Yes, thank you. In your opinion, there are some women
2 for whom injection of Digoxin or KCL would carry additional
3 risks. For example, women with known viral diseases such as
4 hepatitis and HIV; is that right?

5 A. What I was saying is if there is not a need to do an
6 invasive procedure, an invasive procedure carries some risk,
7 then it would be unnecessary and unwise to do it. And I
8 think I was asked in what scenarios might it be a greater
9 risk than others. And I mentioned some of those scenarios
10 might be in a woman has known HIV, for instance.

11 Q. Thank you, Doctor. Maybe hepatitis also as another
12 example?

13 A. As another example, that would be correct.

14 Q. Thank you. And, Doctor, the risks that you are
15 concerned about, the risk to the woman that you're concerned
16 about from partial-birth abortion, they would not be
17 alleviated if a KCL was given minutes before the evacuation,
18 would they?

19 A. Not necessarily. If the practitioner of a
20 disarticulation procedure feels that they can do it with
21 less cervical dilation, if they inject the fetus first and
22 we don't have to dilate the cervix as much, that would be
23 preferable.

24 Q. Doctor, you before you believe viability occurs at 23
25 completed weeks, LMP; is that right?

1 A. Yes. Would you define for me how you define 23
2 completed weeks.

3 Q. That was my next question to you, Doctor. How do you
4 define 23 completed weeks?

5 A. It's not my definition, but the medical definition of
6 completed weeks means attaining 23 weeks gestation which
7 means 23 and zero. You are then into the 24th week, by the
8 way that they are officially dated, but in a common
9 misunderstanding of weeks, we tend to call people 23 and
10 two/sevenths, 23 and four/sevenths, which means you are more
11 than 23 weeks, but people still call that 23 weeks. Is that
12 clear?

13 Q. Yes, I think so. So you believe ha that viability
14 occurs at 23.0 weeks. That's what you mean by 23 completed?

15 A. Well, it's not my belief but is it the existing
16 published data in our large data set which is a
17 Transatlantic database involving hundreds of countries and
18 tens of thousands of babies. So it's not a belief. It's
19 documented data. The survival at 23 weeks currently is
20 approximately 30 to 40% and that's based predominantly --
21 what I'm telling you from the Vermont-Oxford database that
22 we participate in, along with literally thousands of other
23 neonatal units.

24 Q. In your opinion a 30 to 40% survival rate means that's
25 viability?

1 A. Viability means being able to survive independently of
2 the mother outside of the womb with current technology, so
3 yes. That is viability.

4 Q. What's the survival rate at 22 weeks, Doctor?

5 A. It's considered by the Vermont-Oxford database as zero.
6 There are people, as I state stated before, that have
7 claimed they have had a 22-week fetus that has survived,
8 although there has been questions about was it an accurately
9 dated fetus, based partly upon the weight and the appearance
10 of the fetus. But the current data, as we speak now, would
11 say that the survival rate is zero. But this is an area
12 that has a lot of active improvement, and so it would not be
13 unreasonable in a few years from now to say there is 30%
14 survival at 22 weeks. But as it stands now, there is not.

15 Q. Okay. Thank you, Doctor. Doctor, moving onto the area
16 of cervical incompetence. In your opinion the intact D & E
17 procedure, as you deny fine it, poses increased risks of
18 cervical incompetence over D & Es in which the fetus is not
19 removed intact; is that right?

20 A. What I have said is that I'm concerned about the
21 potential for that increased risk.

22 Q. That's right, Doctor. That anticipates my next
23 question, which is you said in your expert report that
24 partial-birth abortion, quote, may very well, unquote, pose
25 risk to future fertility; is that right?

1 A. That is correct. And that's what I'm still saying.

2 Q. Okay.

3 A. There is reasonable evidence to inform that opinion.

4 Q. And so you don't know for sure, as you're saying, you're
5 theorizing, based on the evidence as you see it?

6 A. Correct. From making my best medical assessment based
7 on the data available to me.

8 Q. Now, at your -- withdrawn. Doctor, you have not, to
9 your knowledge, I think we may have covered this already and
10 I apologize if we have. You have not, to your knowledge,
11 cared for any woman with cervical incompetence that has had
12 what you know to have been a quote partial-birth abortion;
13 is that right?

14 A. That is correct. I have not care for such a patient
15 directly that I know that that's the procedure she had done.
16 I have been asked to review medical records, again, of a
17 person who had this procedure and subsequently had that type
18 of complication.

19 Q. Doctor, at your deposition, you based your opinion about
20 cervical incompetence on two articles, the Audu article and
21 an article from France by Henriet. H-e-n-r-i-e-t, is that
22 correct?

23 A. I'm not sure that I stated that the sum total of my
24 concern for cervical incompetence came from those two
25 articles. I think those were just two articles that were

1 included, amongst other articles, to support some of my
2 expert report.

3 Q. Well, Doctor, let's look at your deposition at page 226.
4 On line three.

5 A. Okay. I'm there.

6 Q. Question: And just to clarify, Doctor, other than these
7 two articles we are going to talk about now the British
8 Journal article and the Audu article, can you recall any
9 other data sets that you've looked at that indicate a
10 connection between mid trimester abortion and cervical
11 incompetence? Answer: Not that I have recently reviewed.
12 So at least at your deposition, Doctor, the only two that
13 you pointed to were Audu and Henriet; is that right?

14 A. Yes, but it does neat clarification. When she says data
15 sets, I include the article and the supporting bibliography
16 of that article in the data set. So there are other
17 individual articles, referenced, for instance in the French
18 study, that do refer to other supporting evidence.

19 Q. Thank you, Doctor. And those were the only two articles
20 that you listed in your expert report; isn't that right,
21 Henriet and the Audu? A-u-d-u?

22 A. I did list other articles.

23 Q. And cervical incompetence. Those were the only two
24 listed; is that right, Doctor?

25 A. Those are the only two that addressed issued related to

1 pre-term delivery, yes.

2 Q. Doctor, you indicated that the studies on which you
3 based your concerns about cervical incompetence or
4 subsequent -- in subsequent pregnancies looked at first
5 trimester procedures; isn't that right?

6 A. Not all of them, but the predominance of that data has
7 been from first trimester.

8 Q. The Audu and Henriet article particularly, is that
9 right?

10 A. Correct. The Audu article -- I believe I'm confused by
11 the authors. I refer to them as the journals, but the
12 British Medical Journal --

13 Q. That would be Henriet.

14 A. Or the British Journal of OB/GYN, that article did
15 reference -- one included data sets from the mid trimester
16 as well.

17 Q. Doctor. You mean it included it in the study or in the
18 references it cited to?

19 A. It included it in the references which I included in my
20 response to question data sets.

21 Q. Okay. Doctor, you believe that the -- let me go on.
22 Let's just go right to the Audu article. If you could look
23 at defendant's Exhibit 544?

24 THE COURT: Counsel, I'm willing to take a break
25 whenever you tell me.

1 MS. SMITH: This would be a fine time.

2 THE COURT: All right.

3 MS. SMITH: Because this is going to be a rather
4 long -- I think we have got a few articles to go through, so
5 we could stop now.

6 THE COURT: Give me a sense about the doctor's
7 travel plans. Incidentally, did our fellow yesterday make
8 his airplane?

9 MR. WARDEN: He did.

10 MR. COPPOLINO: Yes, the same flight, 6:15 out of
11 Lincoln.

12 THE COURT: Well, give me a sense, Ms. Smith,
13 about --

14 MS. SMITH: Well, I am -- I think I am more than
15 halfway through, Your Honor. And I think it will go much
16 faster after we get through the next piece.

17 THE COURT: Okay. Well, let's -- I'll ask the
18 Government to have whoever they had stand by yesterday to
19 run the doctor out to the -- I suspect he'll be in the
20 hospital tonight, but out to the airport. And we'll try to
21 get him there for his airplane. Let's everybody try to do
22 that. We'll take a break until 3:30. We'll start again
23 promptly at 3:30.

24 THE WITNESS: Your Honor, would it facilitate
25 things for me to know which articles are going to be

1 addressed and review those quickly beforehand.

2 THE WITNESS: That's a good idea, Doctor.

3 MS. SMITH: We are going to talk about the Audu
4 article which is 544.

5 THE WITNESS: Okay.

6 MS. SMITH: Henriet is 49 or 585, I'm sorry. It
7 should be in that same one.

8 THE WITNESS: Got it.

9 MS. SMITH: Those are the next two we are going to
10 discuss.

11 THE COURT: All right. Thank you. We'll stand in
12 recess until 3:30.

13 (Recess from 3:15 to 3:30 p.m.; all parties present)

14 THE COURT: Please be seated. Counsel, I will have
15 a couple of questions for the Doctor, two or three, but it
16 won't take very long, but please give me five or ten
17 minutes, maybe, at the end of the day.

18 MS. SMITH: I actually spent a little bit of my
19 break taking questions out of the cross-examination and
20 shortening it, Your Honor.

21 THE COURT: That's marvelous.

22 THE WITNESS: It's much appreciated by all.

23 BY MS. SMITH:

24 Q. Doctor, let's talk about the Audu case now. That's a
25 Defendant's Exhibit 544.

1 A. I have it.

2 Q. And can you tell me what the title of that article is,
3 please?

4 A. Diagnostic Features of Cervical Incompetence Amongst
5 Women in Maiduguri.

6 Q. And, Doctor, Maiduguri is in Nigeria; is that correct?

7 A. That's my understanding.

8 Q. And that study was a retrospective chart review; is that
9 right?

10 A. It was a retrospective study evaluating people with
11 cervical incompetence and looking at risk factors associated
12 with that.

13 Q. And out of the 141 records reviewed, only seven women
14 had a history of previous induced abortion; is that right?
15 I believe that's in table 2.

16 A. I don't think that is correct. They had 141 patients
17 total and 113 that had a previous mid trimester abortion;
18 and 48 had two, 50 had three or more.

19 Q. How many had induced abortions, Doctor?

20 A. Oh, I'm sorry. This is that same misunderstanding of
21 the terminology. Abortion by the technique of induction. I
22 apologize. I would have to look back at the table again.
23 Where was that you were referring to?

24 Q. Table 5 or table -- sorry -- table 2, number 5.

25 A. Yes. I assume when they say induced abortions, they are

1 talking about by medical induction. Yes. Seven is correct.

2 I'm sorry.

3 Q. Doctor, do you think it's by medical induction, or do
4 you think it's by -- These were first trimester procedures;
5 don't you think?

6 A. I would have to look at that specific part of the data.
7 I don't see that it clarifies that. The focus of the
8 article is on people with previous mid trimester abortions
9 and consecutive mid trimester abortions, and 80% had prior
10 mid trimesters and 30% had consecutives, so that's where I
11 focused my reading of the article.

12 Q. That's not a discussion of induced abortion; is it?
13 That doesn't prove anything about the impact of induced
14 abortions?

15 A. Abortion by induction, medical induction, is that what
16 you're asking? I'm sorry. I'm just unclear about the
17 question.

18 Q. I think abortion is defined as a loss of pregnancy in
19 this case; right, as opposed to induced abortion which is
20 how I understood you to use the language previously.

21 A. I can maybe clarify. When we talk about the term
22 induced abortion, it is in contradistinction to a
23 spontaneous abortion or miscarriage, so induced abortion by
24 any method, when I say induced abortion, this article's
25 focus is on people with mid trimester abortions, and they

1 looked at those that had them, and those are the numbers
2 that are presented.

3 Q. Including miscarriages and spontaneous abortions; is
4 that right, Doctor?

5 A. In the total number.

6 Q. Yes. Well, in table 2, Doctor, where it says previous
7 consecutive mid trimester abortions, that is referring to
8 miscarriage and spontaneous abortion, isn't it, as opposed
9 to number 5 which is previous induced abortion which, as you
10 pointed out, is an abortion other than a miscarriage; is
11 that right?

12 A. They don't say spontaneous abortions here in that table.

13 Q. Do you understand table 2, number 2 and number 1, to
14 include induced abortions as you have defined them?

15 A. That was my initial understanding.

16 Q. And number 5 which says previously induced abortion
17 would be what?

18 A. Initially, I thought that meant by induction, but I may
19 have a misunderstanding of the way they are presenting their
20 data.

21 Q. Doctor, there is no indication in this article of what
22 means of dilation was used; is there?

23 A. They do not comment.

24 Q. In any abortions, whether we talk about the induced
25 abortions or however many there were, there is no indication

1 of that at all, right?

2 A. The specific type of procedure done is not commented on.

3 It's the just the gestational age at which it occurred.

4 Q. Thank you. And Doctor, in the French study, the Henri
5 study, that's Exhibit 585?

6 A. I have that one now.

7 Q. That looked just at first trimester abortions as well;
8 didn't it?

9 A. That is correct.

10 Q. And they didn't discuss there what type of dilation was
11 used; did they?

12 A. They did not.

13 Q. Now, Doctor, I believe you said earlier in your direct
14 examination that there was no study of the impact of osmotic
15 dilators in second trimester abortions; is that right?

16 A. I'm not sure I recall that exactly. Was that in
17 response to a particular question.

18 Q. I don't remember what question it was in response to.

19 Is that your belief that there is no study of the impact of
20 osmotic dilators in second trimester abortions, Doctor?

21 A. I don't know that there is any study specifically
22 looking at the issue of osmotic dilators. There are studies
23 looking at the issue of having had a procedure or not having
24 had a procedure, having had multiple procedures and having
25 had later procedures.

1 Q. Doctor, could you look at Defendant's Exhibit 596,
2 please? Do you have the binder there for that, please?

3 A. I'm working on it. I'm sorry. May be a different one.
4 This is 587.

5 Q. This is it.

6 A. Thanks.

7 Q. Are you there, Doctor?

8 A. I am here.

9 Q. Doctor, that's a study by Drs. Kalish, Chasen and others
10 entitled Impact of Mid Trimester Dilation and Evacuation on
11 Subsequent Pregnancy Outcome. Is that right?

12 A. Correct.

13 Q. And that article was published in October of 2002; is
14 that right?

15 A. I'll assume it's correct. I don't see the date right
16 this very minute.

17 Q. And this study looked at -- Have you seen the study
18 before, Doctor?

19 A. I don't recall seeing this one, no.

20 MS. SMITH: Doctor -- Your Honor, rather, I would
21 like to offer Plaintiffs' -- Defendant's Exhibit 596.

22 MR. COPPOLINO: Objection.

23 MS. SMITH: And again, Your Honor, I'm offering it
24 for, not for the truth but for evidence of the debate in the
25 medical community.

1 THE COURT: I'll reserve ruling on that as I have
2 for all of the similar articles.

3 MS. SMITH: Thank you.

4 BY MS. SMITH:

5 Q. Doctor, this study looked at women who had abortions
6 between 14 weeks and 24 weeks LMP; is that right?

7 A. That is correct.

8 Q. And the patients in that study all received laminaria
9 over at least 24 hours; isn't that right?

10 A. I haven't read the article so I'll take your word on it.

11 Q. And, Doctor, if you look on page 883, I think you can
12 see the laminaria regimen that patients having abortions
13 over 20 weeks or with a BPD of 45 millimeters usually had
14 two sets of laminaria over 48 hours?

15 A. I'm sorry. Where on 883?

16 Q. That's on page 883 on the left-hand column right at the
17 top, first couple of sentences.

18 A. Okay.

19 Q. And if you look on page 885, Doctor, in the left-hand
20 column there, and actually, Doctor, if you look at the top
21 of that page, you can see that this was published in the
22 American Journal of Obstetrics and Gynecology, volume 187,
23 number 4; is that right?

24 A. That is correct.

25 Q. Now, Doctor, in that left-hand column about two-thirds

1 of the way down, there is a sentence that begins when
2 greater. Could you read that sentence, please?

3 A. When greater cervical dilation -- is that correct?

4 Q. Yup.

5 A. When greater cervical dilation is achieved with
6 laminaria, pre-term delivery in future gestations appears
7 less likely possibly because of a decrease in cervical
8 trauma.

9 Q. That was the conclusion of this study; is that right?

10 A. That's an editorial statement made that I don't know is
11 supported by this data. There are a very small number of
12 people included, and just prior to that, they review data
13 that would contradict that.

14 Q. And this was published in a peer review journal; is that
15 right?

16 A. That is correct.

17 Q. Doctor, I just have a few last questions for you,
18 believe it or not. Doctor, you said you're a member of
19 PHACT. That's P-H-A-C-T; is that right?

20 A. I was one of the members that initially formed it, yes.

21 Q. So you were one of the founders; is that right?

22 A. I suppose you could describe it that way.

23 Q. And that PHACT describes for Physicians Ad Hoc Coalition
24 for the Truth; is that right?

25 A. That is correct.

1 Q. I believe you testified that that was a group that was
2 formed specifically to address issues around partial-birth
3 abortion; is that correct?

4 A. Yes. That's why we chose the term ad hoc, like an ad
5 hock committee, you know, to just a particular point.

6 Q. Thank you, Doctor. And, Doctor, were there any members
7 of that group who provide D & Es in the second trimester on
8 live fetuses on a regular basis?

9 A. I believe that there are.

10 Q. Do you know who?

11 A. Well, there again were over 400 physicians involved, and
12 I know some of the physicians were physicians that did
13 perform abortion techniques, and I have no reason to suspect
14 they don't do mid trimester abortion techniques as well.

15 Q. On a regular basis, or are you referring to someone like
16 yourself who performs maybe four or five of them in their
17 career?

18 A. Well, it was never our prerequisite to be involved that
19 you had to do a certain number or not do a certain number.

20 Q. Yeah. That wasn't my implication at all. I'm just
21 asking whether there were, whether you know if there were,
22 and you can tell me who they were.

23 A. Well, the person that first comes to mind would be Dr.
24 Frank Baum who does do terminations of pregnancy who was
25 involved, and I know that there were other individuals that

1 also do terminations of pregnancy that were involved, but I
2 was never one in possession of an entire list of all the
3 physicians, nor did I communicate with all the physicians.
4 That wasn't really my role.

5 Q. Thank you, Doctor.

6 THE COURT: Is this the Frank Baum at Vanderbilt.

7 THE WITNESS: That is the same one.

8 THE COURT: Thank you. Go ahead.

9 BY MS. SMITH:

10 Q. Doctor, you submitted written testimony, as you I think
11 testified earlier, in favor of the Congressional bans on
12 partial-birth abortion in both 1997 and 2002; is that right?

13 A. That is correct.

14 Q. And you were consulted by the staff of certain members
15 of Congress and asked to do that; isn't that right?

16 A. I was asked by the specific committees to do that.

17 Q. Thank you. And you suggested that the Act be limited to
18 procedures performed after 20 weeks; isn't that correct?

19 A. Well, it's part of the discussion regarding this
20 procedure, particularly after the previous Carhart decision,
21 I was asked as were others to give advice on how we could
22 write a better Bill, how we could most narrowly define the
23 procedure, and so I put forward several recommendations,
24 some of which became incorporated, some of which did not.

25 Q. I didn't ask that, Doctor. I asked you whether or not

1 you suggested that the Act be limited to procedures
2 performed after 20 weeks. That was my question. Did you or
3 didn't you?

4 A. I did make that as one of the suggestions. I was trying
5 to put it in context. I'm sorry.

6 Q. Thank you, Doctor. And that suggestion was not
7 followed; is that right?

8 A. That is correct. It was not followed.

9 Q. And, Doctor, you have also testified in support of
10 partial-birth abortions statutes in cases challenging such
11 laws in Michigan, Missouri and Wisconsin; is that right?

12 A. That is correct.

13 Q. Any other states, Doctor, that I left out?

14 A. Well, in Wisconsin I didn't testify, but I think I
15 submitted an affidavit of merit or something. I don't know
16 the correct legal term.

17 Q. A declaration?

18 A. Declaration.

19 Q. Okay?

20 A. I testified in Missouri, and I testified in Michigan.

21 Q. Thank you. And, Doctor, you are being compensated for
22 your testimony here today; is that right, \$500 a day, I
23 believe it is for actual testimony?

24 A. Well, I haven't received any compensation, but they
25 assure me I will.

1 Q. And \$250 a day for other work that you do on the case;
2 is that right?

3 A. That has been my understanding.

4 Q. And then your travel expenses as well?

5 A. That's correct.

6 MS. SMITH: Your Honor, if I could just have a
7 moment.

8 THE COURT: Sure.

9 MS. SMITH: Your Honor, I may have neglected to
10 offer the Dr. Grimes article into evidence. Did I,
11 Defendant's Exhibit 577?

12 THE COURT: Well, the Grimes article, you have also
13 got that listed, too, don't you? Hang on just a minute.

14 MS. SMITH: And Defendant's Exhibit 545 the Austry
15 article, I think that may have already been moved as a
16 Plaintiff's Exhibit though. I think that was.

17 THE COURT: 577 is the old Grimes article; right?

18 MS. SMITH: Yes.

19 THE COURT: Yeah, and I take it once again, you
20 offered both for the truth, and if not the truth, for
21 understanding the parameters or the so-called debate; right?

22 MS. SMITH: That's right, Your Honor.

23 THE COURT: I'll reserve ruling, and there is only
24 a hearsay objection. What was the other one you wanted?

25 MS. SMITH: I think I already offered 596; is that

1 right, the Kalish article?

2 THE COURT: You did, and I reserved ruling on that.

3 MS. SMITH: Thank you.

4 THE COURT: Mr. Coppolino.

5 REDIRECT EXAMINATION

6 BY MR. COPPOLINO:

7 Q. Dr. Cook, near the end of Ms. Smith's examination, she
8 noted you testified in some other cases concerning partial-
9 birth abortion act bans enacted by various state
10 legislatures. I believe you testified in a few cases that
11 are listed in your expert report, the case in Michigan, case
12 in Missouri, and you may have submitted affidavits, it
13 appears, in Wisconsin and Alaska. Why did you offer your
14 expertise to those courts in those cases?

15 A. Well, I was contacted by somebody at the state level
16 regarding my willingness to provide some support of
17 information for the legislation that they were attempting to
18 enact in their particular state, and sometimes I was
19 available and sometimes I was not.

20 Q. It's fair to say, Doctor, where this issue has come up,
21 you have been willing to provide various federal courts here
22 with your expertise on it; is that correct?

23 A. That's right, I have always tried to be available when I
24 could.

25 Q. Is it fair to say as we look back over the four cases

1 that you've testified in in federal court and twice before
2 Congress, this is an issue that concerns you; is that
3 correct?

4 A. It's is an area that I'm concerned about.

5 Q. You mentioned a moment ago that you had made a
6 suggestion to Congressional staff regarding a 20-week
7 gestational line, and you wanted to add some context to your
8 answer. Why don't you add that context now?

9 A. Well, I was just trying to explain how that particular
10 issue came up. I was asked my opinion about how they could
11 improve the writing of the Bill, and specifically in the
12 area of narrowly focusing on this procedure and this
13 procedure alone, and I made some suggestions including
14 things like anatomic landmarks, and, you know, things
15 regarding intentional or volitional destructive procedures,
16 some things like that excluding things like completing a
17 normal, you know, vaginal delivery, and I also offered a
18 gestational age limit to try to bring some greater
19 narrowness to the definition.

20 Q. Okay. I would like to just go through a couple of the
21 articles that Ms. Smith asked you about and either clarify
22 or further obscure the record on them. Let's start with Dr.
23 Grimes' article, and you know you may have it there in front
24 of you?

25 THE COURT: You can have continuing leave, yes.

1 You're talking about 577, the older Grimes article?

2 MS. SMITH: Yes, I believe so, Exhibit 577.

3 THE WITNESS: That's in here . I have it here in
4 the small print version.

5 BY MR. COPPOLINO:

6 Q. Okay. Ms. Smith called your attention to a sentence in
7 the abstract at the beginning of the article that discusses
8 the abortion mortality in the United States for various
9 procedures including hysterotomy and hysterectomy. Do you
10 see that sentence?

11 A. I see it.

12 Q. And the sentence, the portion of the sentence which
13 specifically refers to hysterotomy also refers to
14 hysterectomy; is that correct?

15 A. That's correct.

16 Q. Now, you previously discussed in response to Ms. Smith's
17 question the relative risks of D & E and hysterotomy at
18 greater than 20 weeks. Why do you think that hysterotomy is
19 as safe as D & E after 20 weeks?

20 A. Well, the thing that's misleading about the Grimes data
21 here is, again, including D & E across the gestational ages,
22 and also, when you lump hysterectomy and hysterotomy
23 together, those are usually uniquely reserved for certain
24 higher risk or inherently risky situations, specifically
25 hysterectomy usually means somebody has already had

1 significant bleeding or invasive cancer or something else
2 that would already predispose them to more complications, so
3 I think that data is misleading but also not contemporary.
4 If you look at just the performance of a hysterotomy, I
5 believe that those risks in and of themselves are inherently
6 similar to the risk of D & E based upon the increasing
7 complications related with D & E at later gestational ages.

8 Q. All right. Doctor, now, you were asked a question about
9 the Audu article which is in front of you there. Could you
10 remind me of the exhibit number on that article?

11 A. It's 544.

12 Q. Defendant's 544. I just want to -- I want you to turn
13 to the chart, table 2, that Ms. Smith was asking you about,
14 appears to be on page 131 of the article.

15 A. Okay.

16 Q. A question arose as to what the induced abortions
17 referred to. Now, let me just go back and clarify. Earlier
18 when I was asking you questions and the phrase induced
19 abortions came up in reference to articles studying
20 long-term complications of abortion, you testified that that
21 phrase in that context included all methods of abortion; is
22 that correct?

23 A. That's correct.

24 Q. Now, it's not clear, and Ms. Smith asked you whether in
25 table 2 where it also refers to the term induced abortions,

1 is that referring to abortions by all methods?

2 A. That wasn't clear to me in my initial review of the
3 article.

4 Q. Take the look at the first paragraph under results and
5 read where it says -- you can read where it says as shown in
6 table two. Just read that to yourself down to the end of
7 that paragraph.

8 A. As shown in table --

9 Q. Do you want it on the record? You can put it on the
10 record. Go ahead read it out loud.

11 THE COURT: That's fine.

12 THE WITNESS: I'm sorry. As shown in table 2, the
13 most common obstetric history was of a mid trimester
14 abortion. This was found in 80.1% of patients. In 98
15 patients or 69.5%, there is a history of consecutive mid
16 trimester abortions representing 86.7 of those with a
17 history of mid trimester abortion.

18 BY MR. COPPOLINO:

19 Q. Do you want to continue to the end of the paragraph?

20 A. Oh. 68 or 50.7% of patients had pre-term deliveries,
21 42.6% of which occurred at least three times while 65 or 46%
22 had a cervical cerclage inserted in a previous pregnancy.
23 Says only seven patients submitted to a dilatation and
24 curettage for termination of pregnancy.

25 Q. Does that shed any light on what the seven abortions

1 referred to in number 5 on table 2 is referring to?

2 A. It seems to imply that seven patients had a termination
3 of pregnancy in this situation by the method of dilatation
4 and curettage.

5 Q. Ms. Smith also asked you some questions about the Kalish
6 and Chasen article, Defendant's Exhibit 596. You had not
7 read that article prior to today; is that correct?

8 A. That's correct.

9 Q. You've not read the entire article as yet; is that
10 correct?

11 A. That's correct.

12 Q. All right. Would you take a look at page -- well, it's
13 the third page of the exhibit, and I believe it's page 884.

14 A. The number, one more time, is 596?

15 Q. Yes. I'm sorry. 596.

16 A. And I have page 884.

17 Q. Down at the bottom of the right-hand column, there's a
18 paragraph beginning our study reviewed, and I would like you
19 to read that paragraph which begins our study reviewed.

20 A. Our study reviewed the medical records of 600 patients
21 who underwent a D & E procedure and revealed 96 subsequent
22 pregnancies at our institution. The patients undergoing D &
23 E were referred from physicians at our institution as well
24 as from physicians affiliated with other hospitals. After
25 the D & E, most patients returned to their referring

1 obstetrician for future obstetric care. We did not assess
2 subsequent pregnancy outcomes of patients delivered at other
3 institutions. Although these patients were not included in
4 our study, we believe that significant bias as a result
5 would be unlikely.

6 Q. Wouldn't that affect, that last part that we just read,
7 the fact that they didn't follow up with all of the patients
8 involved, wouldn't that affect any conclusions regarding
9 this study regarding the relationship between D & E and
10 pre-term birth?

11 A. Well, that was my point about the limitation was that of
12 the 600 patients he reviewed, they only had follow up on 96,
13 and only 77 of them actually delivered, meaning the other
14 ones had miscarriages, ectopics, what-have-you.

15 Q. Okay. Doctor, small point, but you mentioned to Ms.
16 Smith that you had reviewed some medical records in
17 connection with your testimony before Congress. I believe
18 she suggested that you had not disclosed that in your expert
19 record. Do you have your expert report up there?

20 A. I do.

21 THE COURT: Would you help the witness with the
22 documents? He's trying to hold big books and look at a
23 bunch of stuff.

24 THE WITNESS: I have it now in front of me.

25 BY MR. COPPOLINO:

1 Q. And look under where it says item 9, information
2 considered in forming my opinions. In addition to my
3 extensive experience in maternal fetal medicine and the
4 materials I considered prior to my Congressional testimony,
5 I have specifically considered the following materials in
6 forming the opinions stated in this report. Is that
7 sentence in the expert disclosure report that you provided
8 in this case?

9 A. It is.

10 Q. All right. Now, you were asked some questions about
11 induced fetal demise and possible risks of that procedure.
12 Do you perform procedures that involve injections of
13 medications into the uterus?

14 A. I do.

15 Q. Do you perform other procedures that involved injections
16 into the uterus?

17 A. I do. We perform needle procedures into the uterus on a
18 regular basis.

19 Q. Could you discuss the risk of those procedures?

20 A. In general, when we are putting a needle into the
21 uterus, there is approximately a 1 in 200 to 1 in 500 chance
22 of losing the pregnancy from a complication such as breaking
23 the bag of water, causing an infection, bleeding,
24 contractions, things of that nature. If we are giving
25 medications specifically for transfusing a fetus directly,

1 then there is approximately a 1% mortality risk associated
2 with that procedure. Fetal mortality risk. I'm sorry.

3 Q. Would losing a pregnancy through an injection where the
4 intent is to kill the fetus in the first place be a
5 complication of that procedure?

6 A. If the intent is to kill a fetus, that would not be a
7 complication. There are potential risks for infection and
8 maternal sepsis whenever you're injecting into a woman's
9 abdomen, and -- but I believe the risks are fairly small.

10 Q. Doctor, for an injection of Digoxin for women with
11 cardiac conditions, you would agree that most women with
12 cardiac conditions would tolerate Digoxin well if it was
13 given to them directly, and in this situation, you're giving
14 Digoxin locally to the fetus, so the amount of maternal
15 exposure would be quite small. Would you agree with that
16 statement?

17 A. I would agree there are very rare cardiac conditions
18 that would not tolerate Digoxin in pregnancy or any time,
19 but even so, the woman's exposure is minimal.

20 Q. Doctor, one last question. I would like you to tell the
21 Court, given your limited number -- given the limited number
22 of D & Es that you performed on living fetuses, what
23 assistance can you offer the Court concerning the medical
24 issues raised by the Partial-Birth Abortion Act based on
25 your expertise as a maternal fetal specialist?

1 MS. SMITH: Your Honor?

2 THE COURT: Yes.

3 MS. SMITH: I think that's outside the scope of the
4 cross.

5 MR. COPPOLINO: It isn't. She asked him about a
6 number of D & Es, Your Honor.

7 THE COURT: Mr. Coppolino --

8 MS. SMITH: I didn't object to the leading
9 question.

10 THE COURT: Well, you have got to lead on redirect
11 anyway.

12 MS. SMITH: Okay.

13 THE COURT: And that just sort of as an aside, when
14 I taught trial advocacy, that question on redirect is what
15 you always wanted to ask. It was the throat open to your
16 expert question so he could give you the summary at the end.

17 MR. COPPOLINO: So you can't blame me then; is that
18 what you're saying?

19 THE WITNESS: I didn't say I couldn't blame you.
20 All I'm saying is what I taught my students to do, and when
21 the objection came, I taught them how to handle it and --

22 THE WITNESS: How was that?

23 THE COURT: Hang on, Doctor. You're going to get a
24 chance to answer this in a minute. I told them to just keep
25 refining it until it got within the scope.

1 MR. COPPOLINO: Okay. Let me give that a shot.

2 THE COURT: No, I think the question is fine. Go
3 ahead and answer it.

4 MR. COPPOLINO: Did you hear my question?

5 THE WITNESS: Could I have the question repeated
6 one more time?

7 BY MR. COPPOLINO:

8 Q. My question is, given the number of D & Es that you have
9 performed on living fetuses, what assistance can you offer
10 the Court concerning the medical issues offered by the
11 Partial-Birth Abortion Ban Act of 2003 based on your
12 expertise as a maternal fetal medical specialist?

13 A. Well, I think there are many areas that we can be
14 helpful in trying to evaluate this procedure because we do
15 take care of just complicated pregnancies, complicated by
16 maternal conditions and fetal conditions, and we do that as
17 parts of our regular practice. I think we can comment on
18 the medical necessity and availability of other safe
19 alternatives, particularly in unique complications of
20 mothers and fetuses. I think we can comment on what are
21 ways that we would manage complications of other types of
22 techniques and thus have an understanding of what are the
23 risks for complication of some of these other techniques,
24 and because we do perform other techniques, even on a
25 limited basis, we do have firsthand experience with those

1 procedures.

2 Finally, I think that we have a very good understanding
3 of the fetus in general because it is one of our patients,
4 so we have an understanding of fetal tissues, fetal
5 responses, fetal discomfort and the size of fetuses and the
6 various challenges that come up at various gestational ages.
7 In the rare situation where we do feel the need to make a
8 choice, then we would always choose the maternal situations,
9 a situation that we would want to optimize. And in those
10 situations, we want to deliver the mother in a manner that
11 is safest for her and in a manner that she would best
12 tolerate, mostly because she has underlying concerns at that
13 time if we are going those kind of procedures, and we would
14 still like to do that with a certain level of respect and
15 concern for the fetus who has also been our patient. We
16 just can't continue to advocate or help that patient at this
17 time.

18 MR. COPPOLINO: Thank you, Your Honor.

19 EXAMINATION

20 THE COURT: Thank you. Doctor, before you leave,
21 and I appreciate you have got an airplane to catch, I have a
22 few questions. I realize that your reading of the McMahon
23 and Haskell articles, among other things, have caused you to
24 focus on 20 weeks and after. However, I have heard evidence
25 in this case in which an earlier gestational age has been

1 mentioned, and I want to ask you some questions about that
2 briefly, and here is the circumstance.

3 You have got a woman and a fetus 17 weeks, you want to
4 do a standard, I mean, you typically do a D & E, whatever
5 dilation you typically use for that. You go in to do the D
6 & E, and in a certain number of cases, the fetus delivers in
7 one pass all except for the head which hangs up in the
8 internal cervical os. As a physician, what are your
9 alternatives at that point?

10 THE WITNESS: Well, I think that was a question
11 that was put to me by plaintiff's counsel, I believe. If
12 you are in that situation and we have encountered that
13 situation, I have encountered that situation before.

14 THE COURT: Um-hm.

15 THE WITNESS: We were inducing a pregnancy and
16 everything delivers by the after coming head.

17 THE COURT: Right.

18 THE WITNESS: Most often, it's sort of a benign
19 neglect. What I mean by that, if we just let the woman
20 continue to labor over the next several minutes, she
21 generally passes that baby on her own, and that's usually
22 the preferred method because it's the least invasive method.
23 However, I have been in that same situation where the woman
24 is having more bleeding, and we're concerned about the need
25 to proceed more rapidly to delivery, and that's a situation

1 where we have utilized things like IV nitroglycerin, or less
2 often, forceps. Usually it has been more often IV
3 nitroglycerin. If necessary, a single incision on the
4 cervix. I have never been, myself, in a situation where I
5 have had to do a compression or crushing or aspiration
6 procedure to accomplish that.

7 THE COURT: So in the case of, and I appreciate
8 that, and I don't want to use value laden terms. If I use a
9 value laden term that you object to, you tell me, but I
10 appreciate that you don't do elective abortions, but in the
11 circumstance where and elective abortion has taken place, is
12 being conducted and we are at that 17th week and the head
13 hangs up at the cervix, do you think it's medically
14 reasonable for the physician performing that procedure to
15 wait to see if the 17-week-old fetus delivers through labor?

16 THE WITNESS: Well, I guess it would depend upon
17 what length of time you're talking about trying to wait. If
18 I was in the situation, let's say I'm in an offsite clinic,
19 and I have a healthy mother, and we are doing an elective
20 termination for whatever reason, and everything is delivered
21 but the after coming head, my response generally would be to
22 stock something which is very quite simple to stock, like IV
23 nitroglycerin, have my assistant give her 50 micrograms of
24 that initially to see if it loosens the cervix, and if not,
25 do what I can to manipulate the head out of the cervix which

1 could include a single small incision on the cervix.

2 THE COURT: And if that doesn't work?

3 THE WITNESS: If that doesn't work, at that point a
4 fetus is not able to still be alive because it's now been
5 hanging out for some number of minutes with complete
6 occlusion of the cord, so if you felt at that point you had
7 to do some sort of a procedure to let the head come out,
8 then if you had to do a crushing procedure or an aspiration
9 procedure, the fetus wouldn't be alive, and it wouldn't be
10 covered under this Act.

11 THE COURT: Well, it would be alive, wouldn't it,
12 if for, if one couldn't cut the cord at that point.

13 THE WITNESS: It's not the cutting of the cord.
14 Again, I have seen many fetuses in this exact situation.
15 They just can't survive in that case because they are still
16 attached by their cord to the placenta, and if all that is
17 out is but the head, there is complete occlusion of the
18 cord, and there is data, for instance, in Rhesus monkey
19 trials where they do complete occlusions of the cord. After
20 five minutes, every fetus has acidosis. After 15 minutes,
21 no fetus survived. You can't completely occlude a cord for
22 more than a few minutes and still have a live fetus.

23 THE COURT: And by occlusion, you mean the
24 pressure --

25 THE WITNESS: Compression.

1 THE COURT: The compression of the cervix on the
2 cord and the skull presumably.

3 THE WITNESS: Right. When you have been in that
4 situation, the cervix is quite tight around the baby's head,
5 so it's complete compression of the cord. That's why a
6 single incision is sometimes helpful on the cervix.

7 THE COURT: Right, so at that point, the physician
8 either waits for the fetus to die because of the occlusion
9 that you have described, or if that waiting becomes
10 unacceptable, the physician does the cervical incision that
11 you have spoken about; is that right.

12 THE WITNESS: Well, I personally would go with the
13 medical treatment first because it involves no invasion like
14 IV nitroglycerin. There are other agents as well.

15 THE COURT: Okay.

16 THE WITNESS: And we use that in other areas of
17 obstetrics. If the placenta comes out or the uterus comes
18 out, we have to push it back in or if the shoulders are
19 stuck or whatever, so I would do that first. Then you could
20 do an incision if necessary. To me, the least beneficial
21 option is to do something that involves aspiration or a
22 crushing because it does still expose the cervix to that,
23 you know, the risk of that skull fragments and all those
24 sort of things you would like to avoid if you could, plus I
25 think it doesn't seem to me to be a very humane way, you

1 know, to treat a fetus notwithstanding it's no longer
2 living.

3 THE COURT: All right. You recommended to Congress
4 that they limit the reach of this Act to 20 weeks and
5 forward. Was the circumstance that you and I have just
6 discussed among the concerns that you had?

7 THE WITNESS: It was really, to be quite honest, to
8 just alleviate a large number of discussions and battles
9 over the vagueness argument that I think personally
10 sometimes is made in a somewhat disingenuous fashion to say,
11 oh, this could include miscarriages in the first trimester.
12 I think you could have just put that all to the side by
13 saying, no, this starts at 20 weeks. That was really my
14 purpose in suggesting that you could just alleviate all
15 those discussions about the earlier gestational ages. It
16 wasn't because I felt this procedure needed to be made
17 available for 16, 17 or 18 weekers. I don't believe that it
18 does, but I was merely trying to make the argument simpler.

19 THE COURT: All right. So from, and I don't mean
20 to, this is not pejorative, but from your point of view, it
21 was tactical.

22 THE WITNESS: I guess I would consider it
23 expeditious, but yeah, tactical. It was just a purely a
24 semantics sort of issue.

25 THE COURT: All right. Thank you, Doctor. Doctor,

1 I'm going to show you a sketch, and the courtroom deputy
2 will put it up on the viewer, and she'll give you a copy and
3 give the lawyers a copy. I want to ask you a question about
4 the sketch. And Colleen, if you can focus that to get it on
5 one page. You may not be able to. Doctor, I have handed
6 you what I have marked as Court's Exhibit 1 which is my two-
7 dimensional sketch of what I have called the relevant pelvic
8 anatomy of a female, and it's not to scale. I want to ask
9 you -- Let me back up and give you the context. For someone
10 who is not medically trained, it is helpful for me to
11 visualize the pelvic anatomy, and I have had a hard time
12 doing that by reference to Gray's Anatomy, other texts, so I
13 have drawn this sketch, and what I want to ask you is
14 whether you think this sketch is generally accurate.

15 THE WITNESS: I believe that it is a schematic that
16 generally represents the issue, although this idea of scale
17 implies that the size of the uterus is about equivalent to
18 the vaginal canal, and I -- it decidedly is not in
19 pregnancy.

20 THE COURT: No, I understand that. Just because
21 I'm not a very good artist, I think, and it is not to scale,
22 but generally speaking, for a nonpregnant female, the length
23 of the uterus is around two-and-a-half inches; is that fair?

24 THE WITNESS: I think that's fair.

25 THE COURT: And generally speaking, for, and I

1 realize that there is a variation, but generally speaking
2 for a nonpregnant female, the vagina is typically five
3 inches long for a nonpregnant female?

4 THE WITNESS: Actually, that doesn't tend to really
5 change pregnancy, notwithstanding the length of the vaginal
6 canal.

7 THE COURT: Well, okay. So with your comment that
8 this rather crude judge's drawing is not to scale, may I
9 assume that it's generally accurate?

10 THE WITNESS: Yes. Just my concern, I have to
11 admit is that even looking at this, if it's not actually to
12 scale, it's not in scale relative to two structures within
13 this drawing, is my concern.

14 THE COURT: All right. Thank you, Doctor. Now,
15 Doctor, I want to hand you another document, and I'll have
16 the courtroom deputy come forward, and she'll give you a
17 copy and give the lawyers a copy, and she'll put the table
18 on the viewer. Doctor, you have now been handed Court's
19 Exhibit 2 which is a table that I have prepared from some
20 information on fetal growth and development, and basically
21 what I'm trying to visualize in my own mind are size and
22 length during fetal growth from 12 weeks to 24 weeks, and
23 the table then represents what I understand typically is the
24 length and weight at 12 weeks, 14 weeks, 16 weeks, 18 weeks,
25 20 weeks, 22 weeks, and 24 weeks, and I would like to know,

1 Doctor, whether you think the weight and length as compared
2 to the gestational ages set forth in Court's Exhibit 2 is
3 accurate.

4 THE WITNESS: I believe generally it is. My
5 difficulty, Your Honor, is that we work in centimeters and
6 grams, so I'm having to sort of convert here, but yes, that
7 does appear to be generally accurate.

8 THE COURT: All right. And I'm sorry, I should
9 have realized you would have -- I want to give you -- this
10 is fairly important to me just for understanding, so if you
11 have any questions about the conversion, we can get you a
12 calculator. Are you satisfied that you have had enough
13 time?

14 THE WITNESS: I'm satisfied. I looked at a couple
15 of key weeks like 12, 20 and 24, and they seem to be
16 accurate in my conversions in my head.

17 THE COURT: All right.

18 THE WITNESS: If I could just add one thing just to
19 make sure that I'm being clear on this point.

20 THE COURT: Sure.

21 THE WITNESS: It is understood, I think, by the
22 Court that, in general, a uterus length would be equal in
23 centimeters to a week's gestation in centimeters, so at 18
24 weeks, about an 18 centimeter uterus.

25 THE COURT: Thank you. Lastly, well, the last

1 exhibit I want to show you is a letter that I think that you
2 have seen before, Dr. Darney's letter to Senator Feinstein
3 of March 12, 2003.

4 THE WITNESS: Yeah. There was a letter when I was
5 giving Congressional testimony this most recently which was
6 March of '03 sent by Feinstein's office over to the
7 Congressional committee that I was asked to look at and
8 comment on.

9 THE COURT: Right.

10 THE WITNESS: I'm assuming that's the same letter.

11 THE COURT: I think that it is. We'll put it on
12 the screen and give the lawyers a copy and give you a copy.
13 Doctor, is this the letter that you have seen before?

14 THE WITNESS: I believe that it is.

15 THE COURT: All right. Dr. Darney represents in
16 this letter that he's the chief of obstetrics and gynecology
17 at San Francisco General Hospital where his department
18 provides about 2,000 abortions yearly to poor women in
19 Northern California. Do you know Dr. Darney?

20 THE WITNESS: I'm familiar with him and his work,
21 but I don't know him personally.

22 THE COURT: Do you consider him to be a competent
23 OB/GYN?

24 THE WITNESS: Well, he's not a maternal fetal
25 medicine specialist, so he doesn't take care of the most

1 complicated obstetrical cases, but he's a competent
2 obstetrician/gynecologist, so in the letter to which I have
3 referred, Dr. Darney said, although I have not reviewed
4 medical records in order to count the number of times we
5 have employed intact D & E, I will provide examples of cases
6 in which the technique was critical to safe conduct of our
7 surgery. Then the Doctor sets forth in some detail two
8 patients upon which his department or Dr. Darney himself
9 found that the use of the intact D & E was critical to the
10 safe conduct of our surgery.

11 I would like to ask you to look at those two examples
12 and tell me why it is you think that Dr. Darney's apparent
13 opinion that the technique was critical in those cases
14 was -- is wrong.

15 THE WITNESS: Well, if I can speak frankly without
16 appearing disrespectful.

17 THE COURT: Sure.

18 THE WITNESS: When they first presented this to me,
19 I honestly thought it was laughable and didn't believe these
20 were real cases because I could not imagine somebody
21 managing these pregnancies in this way, so I thought
22 initially maybe it was some sort of hypothetical case, and I
23 can go into the specifics, but in the first case, was a case
24 I kind of mentioned before, if you have a placenta previa,
25 meaning you have a placenta that is presenting ahead of the

1 baby, and you're having so much bleeding that you're
2 replacing blood products, and you have a patient who is
3 coagularpathic or what-have-you, the last thing I know of
4 any maternal fetal medicine person would do or obstetrician
5 would be to attempt further vaginal procedures on that
6 patient. That patient needs a definitive procedure like
7 yesterday, so we would have proceeded with hysterotomy,
8 removal of the placenta, removal of the fetus, and the
9 reason for that is that you want to be able to correct the
10 situation rapidly. Also, there is at least a 5% risk of a
11 placenta accreta which is the next situation.

12 THE COURT: Sure.

13 THE WITNESS: Which would be an even further
14 complication where you require hysterectomy to control
15 bleeding, so to me, it was a very poorly made decision, and
16 when they first presented it to me, I said I could not
17 honestly believe somebody did that to a patient.

18 THE COURT: Um-hm.

19 THE WITNESS: So I thought both of these were truly
20 absurd examples.

21 THE COURT: So you just think they are just
22 plain -- the doctor was plain wrong in doing these
23 procedures?

24 THE WITNESS: Yes. I guess even more strongly if
25 that's truly how they are managing these kind of

1 pregnancies, I think that patient has a very significant
2 case that she has been mistreated.

3 THE COURT: All right. Doctor, this man is the
4 chief of obstetrics and gynecology at a major metropolitan
5 hospital that cares for a lot of women who perform
6 abortions. While I appreciate that you may disagree with
7 his selection of the technique for use in these two cases,
8 can you give me a reason to think that there is just
9 something wrong with the chief of OB/GYN at San Francisco
10 General Hospital?

11 THE WITNESS: The chief frequently is an
12 administrative position. They are not generally doing the
13 clinical work, so I first question whether or not these are
14 cases he actually did or he heard that someone did, and I
15 would really want to look at the case records to really show
16 that this, indeed, did happen because it really does seem
17 extreme and absurd, and I don't know how else I can say it
18 other than to offer it to other maternal fetal medicine
19 people and have them look at this and say what would you do
20 in this situation. This is considered -- this is the time
21 we would use absolute contraindication to do a vaginal
22 delivery with a placenta previa, and a placenta accreta is a
23 even a more complicated procedure. I just did a cesarean
24 hysterectomy on a patient like this prior to coming here
25 last week. These patients are referred from hours away. By

1 the nature of the case, this is to be done by a physician
2 such as myself. Dr. Darney, to my knowledge, has never
3 taken care of patients like this and hasn't in some number
4 of years, so I find it a little disingenuous. That's why
5 when I first was given this, I truly found it laughable.

6 THE COURT: All right. Thank you. One last
7 question on perhaps a lighter note. You were on the
8 McNeil-Lehrer Hour; is that right?

9 THE WITNESS: I did do that show, yes.

10 THE COURT: And you debated a physician from
11 Cincinnati, if I recall correctly.

12 THE WITNESS: That is correct.

13 THE COURT: How did you end up on that television
14 show?

15 THE WITNESS: Jim Lehrer is my uncle. No, I'm
16 teasing. It came up because I testified extensively on the
17 issue, and I'm on the record, and I don't know, I think
18 somebody at the News Hour saw me testify at some point and
19 asked if I would be available, but I have done a number of
20 other news programs including NPR and CNN and C-Span and
21 other programs on the same topic, so it's not that unusual.

22 THE COURT: And who was the physician? Someone was
23 on the other side. What was that doctor's name?

24 THE WITNESS: Dr. Paula Hilliard who as an
25 adolescent gynecologist who hasn't done obstetrics in

1 decades, I don't think.

2 THE COURT: All right. In any event, you and she
3 had a debate at that time, as I understand it.

4 THE WITNESS: That is correct.

5 THE COURT: All right. This occurred at about the
6 time the Act that we are here to talk about was passed; is
7 that right.

8 THE WITNESS: It was done, I believe, the day of
9 the Bill signing.

10 THE COURT: Yeah. Okay. Thank you very much,
11 Doctor. I found your testimony very helpful. I'm going to
12 let the lawyers follow up first for the Government, then the
13 plaintiff, and then the Government. Go ahead.

14 REDIRECT EXAMINATION

15 BY MR. COPPOLINO:

16 Q. Thank you, Your Honor. Dr. Cook, with respect to
17 Court's Exhibit 2, the measurements?

18 A. Yes.

19 Q. My question is simply that would these numbers, to your
20 knowledge, represent an average of length and weight at
21 these particular gestations?

22 A. That is true. I'm slightly uncomfortable. Again, I've
23 not having tried to convert each measurement, but my initial
24 review looks like that is an accurate reflection.

25 Q. Would it be fair to say for each of these weeks of

1 gestation, there might be a slight range in variation as to
2 the lower and higher number?

3 A. Yes, you can usually give about a 10 to 20% leeway on
4 either direction of the mean.

5 Q. All right. With respect to the -- I don't have an
6 exhibit number on Dr. Darney's letter. Is that from the
7 Court's record?

8 THE COURT: It's number 3.

9 BY MR. COPPOLINO:

10 Q. With respect to Dr. Darney's letter, Court Exhibit 3,
11 could you just state for the record what placenta previa and
12 placenta accreta are and why as a result of those conditions
13 you were of the view the intact D & E was not proper
14 procedure because of those two types of conditions?

15 A. Well, you could pretty much consult any basic obstetrics
16 text, and they would say that having the situation of
17 placenta previa would be a contraindication to vaginal
18 delivery, and the part I found laughable was they had a
19 patient who had this history of this placenta previa, and
20 she was already known to have risk factors with a clotting
21 disorder, and they went ahead, despite that, and tried to
22 deliver her vaginally by intentionally causing contractions
23 and cervical change which is why you have bleeding with the
24 placenta previa because you bleed with a previa because the
25 cervix starts to dilate or the lower end segment thins out,

1 so they intentionally caused a situation that we knew was
2 going to complicate bleeding in a patient with underlying
3 risk factors of a clotting disorder, and then when they
4 decided the heavy bleeding was so great they couldn't keep
5 up, then they did this intact D & X procedure. That's what
6 is laughable. They would never have had to have gone down
7 that road at all nor put that patient in jeopardy had they
8 proceeded with what I think any reasonable maternal fetal
9 medicine person would have done which was a hysterotomy.

10 Q. Placenta previa a blockage of the vaginal area with
11 the -- vaginal opening by the placenta?

12 A. It is. It's the placenta presenting in front of the
13 fetus across the cervical opening and preventing delivery of
14 the fetus without extensive bleeding.

15 Q. Has it detached already from the uterine wall in that
16 condition?

17 A. No. What happens is, the placenta is a relatively fixed
18 structure, and the cervix and uterus are relatively elastic,
19 so I don't know if I can do this for the court reporters,
20 but as the lowering segment is starting to thin out or the
21 cervix is starting to dilate. It causes a shearing against
22 the relatively static nonelastic placenta. That is what
23 causes the bleeding.

24 Q. Now, placenta accreta.

25 A. Placenta accreta is a variation of placenta previa, kind

1 of like HELLP Syndrome is a variation of severe
2 pre-eclampsia. Placenta accreta includes not only a
3 placenta previa but that case in which the placenta has
4 actually grown into the uterine wall, so that you are unable
5 to separate the placenta without causing great risk for
6 bleeding.

7 Q. Okay. It's not apparent from the letter, I don't
8 believe, whether Dr. Darney personally performed these
9 procedures; is that correct?

10 A. I did not believe it clearly stated that he did the
11 procedures.

12 MR. COPPOLINO: Thank you, Your Honor.

13 THE COURT: Ms. Smith?

14 MS. SMITH: I have nothing further, Your Honor
15 except for to offer Defendant's Exhibit 544, the Audu
16 article which I neglected to do previously.

17 THE COURT: I'll observe ruling on that. Thank
18 you, Doctor. You may step down. May the doctor be excused?

19 MR. COPPOLINO: Yes, Your Honor.

20 THE COURT: You're excused, Doctor. Thank you.
21 I'll withhold ruling on 544. All right. It's now 4:30.
22 What does the day hold for us tomorrow?

23 MR. COPPOLINO: Your Honor, our next witness will
24 be tomorrow morning, Dr. Elizabeth Shadigian.

25 THE COURT: And the doctor will testify about?

1 MR. COPPOLINO: Dr. Shadigian is also an OB/GYN
2 from the University of Michigan, and she's going to testify,
3 if I can recall generally, not entirely dissimilar from Dr.
4 Dr. Cook's testimony. She's going to talk about the medical
5 necessity of the procedure, and she's also going to talk
6 about some literature searches she conducted with respect to
7 long-term complications of abortions. Those, I think, are
8 the two general topics. She's also going to talk from her
9 perspective as an OB/GYN who treats women with complications
10 of abortions and complications of pregnancy.

11 THE COURT: And do you think it will take most of
12 the day?

13 MR. COPPOLINO: I, you know, I don't. I think it
14 might be just -- I don't really know because I don't know
15 how long the cross is going to be, but I anticipate it will
16 certainly go to the afternoon but perhaps not as long as
17 today's examinations were.

18 THE COURT: All right. The people, my judicial
19 assistant who does scheduling for me tells me that there are
20 some lawyers who would like to start a trial next Tuesday.
21 Do you think we'll be able to?

22 MR. COPPOLINO: My expectation and hope is that we
23 will conclude entirely on Friday including providing the
24 plaintiffs an opportunity to have some hours to take a
25 rebuttal case. I, of course, am not sure about that. I

1 don't know how long they might take on cross-examination of
2 the witness scheduled for that day, but I think we are all
3 hoping that we can complete this on Friday.

4 THE COURT: Counsel?

5 MS. SMITH: I certainly have the same hope, Your
6 Honor, but I never would have believed that we would be here
7 until 4:30 today, so that's my only concern about Dr.
8 Lockwood. He's a very important witness.

9 THE COURT: Sure. I appreciate that. I think that
10 what I'll do then, I have to be in St. Louis on Monday.

11 MS. SMITH: Okay.

12 THE COURT: As it turns out, and so -- and you all
13 would prefer to start on Tuesday if we need to. I
14 understand that, so I'll tell -- we'll start our trial on
15 Wednesday, but Tuesday is it. That's as long as I can go.

16 MS. SMITH: Your Honor, I also am not sure we are
17 going to need much time, if any, for rebuttal. We have Dr.
18 Creinin who is testifying in rebuttal for us in San
19 Francisco, and I haven't made, we still haven't made a final
20 decision to see what's coming in and whether or not there is
21 something else we need to do. So it's possible we might not
22 have rebuttal.

23 THE COURT: Sure.

24 MS. SMITH: Live rebuttal.

25 THE COURT: I understand if it ends up that either

1 you don't need Tuesday and you can't make that decision
 2 until Friday and I have got to lose a day, then I understand
 3 that, but just be careful, and we'll start our trial on
 4 Wednesday.

5 MS. SMITH: Thank you, Your Honor.

6 THE COURT: You're welcome. Is there anything else
 7 well should take up?

8 MR. COPPOLINO: Nothing here, Your Honor.

9 THE COURT: We'll see you in the morning at 9:00
 10 o'clock. We stand in recess.

11 (Recess at 4:35 p.m.)

12 C E R T I F I C A T E

13 I, David C. Francis, certify that the foregoing is an
 14 accurate transcription of the record of proceedings made in
 15 the above-entitled matter.

16 /S/ David C. Francis Date: April 7, 2004

17 Official Court Reporter

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