

IN THE CIRCUIT COURT OF BROOKE COUNTY, WEST VIRGINIA

JEFFREY STEVEN KONNOVITCH and )  
KAREN SUE KONNOVITCH, individually )  
and as parents and natural guardians )  
of JEFFREY TYLER KONNOVITCH, JR., )  
a minor, )

Plaintiffs, )

vs. )

WEIRTON MEDICAL CENTER, a )  
West Virginia corporation, )  
ROGELIO S. MUPAS, M.D., )  
MICHAEL CROSS, a nurse anesthetist, )  
NARONG CHINAKARN, M.D., and )  
MUPAS-CHINAKARN ASSOCIATES, a )  
professional association, )

Defendants. )

Civil Action  
No. 96-C-6-R

Deposition of JOHN J. KANE, M.D.

Thursday, May 15, 1997

The deposition of JOHN J. KANE, M.D., called for examination by the Plaintiffs, taken pursuant to Notice and the West Virginia Rules of Civil Procedure pertaining to the taking of depositions, taken before me, the undersigned, Jamie J. Fagen, Certified Court Reporter-Notary Public in and for the State of West Virginia, held at Magee Women's Hospital Womancare Associates, Suite 2-C, 1300 Oxford Drive, Bethel Park, Pennsylvania 15102, commencing at 4:00 o'clock p.m., on the day and date above set forth.

1 APPEARANCES:

2 On Behalf of the Plaintiffs:

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5 Two Chatham Center  
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7 Pittsburgh, Pennsylvania 15219

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12 On Behalf of Defendants Weirton Medical Center  
13 and Michael Cross:

14 DINO S. COLUMBO, ATTORNEY-AT-LAW  
15 Jacobson, Maynard, Tuschman & Kalur  
16 7000 Hampton Center, Suite K  
17 Morgantown, West Virginia 26505

On Behalf of Defendants Rogelio S. Mupas, M.D.,  
Narong Chinakarn, M.D., and Mupas-Chinakarn Associates:

RICHARD STUHR, ATTORNEY-AT-LAW (via telephone)  
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PROCEEDINGS

(4:00 o'clock p.m.)

JOHN J. KANE, M.D.,

called for examination by the Plaintiffs, having been first duly sworn, as hereinafter certified, was deposed and said as follows:

EXAMINATION

BY MR. COHEN:

Q Will you state your name, please?

A John J. Kane.

Q Dr. Kane, you reviewed records in the case of Konnovitch versus Weirton Medical Center, et al.?

A I did.

Q You have provided expert opinions for the defense?

A I did.

Q Doctor, do you have a copy of the fetal monitor strip in front of you?

MR. COLUMBO: These are yours here (handing).

MR. STUHR: Nick, is that you asking questions?

MR. COLUMBO: It's Harry.

MR. STUHR: Harry, could you speak up just a little?

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1 MR. COHEN: Sure. I will try.  
2 A Okay. I do.  
3 Q Would you look at --  
4 MR. COHEN: Can you hear me?  
5 MR. STUHR: I can hear you now.  
6 MR. COHEN: You can?  
7 MR. STUHR: Yes.  
8 BY MR. COHEN:  
9 Q Would you look at strip 55695?  
10 A On 9-22; correct?  
11 Q Yes, sir.  
12 A Okay, I've got it.  
13 Q All right.  
14 Looking at the strips before and after that -- and I  
15 just used that number to reference you around the time of  
16 6:50 p.m. on September 22nd -- do you see fetal  
17 bradycardia?  
18 A No -- 55695?  
19 Q Or the strips before or after it.  
20 A After, yes.  
21 Q When do you see fetal bradycardia starting?  
22 A 55701.  
23 Q Would you, with a pencil -- is this a copy that we  
24 can mark, that you have in front of you --  
25 A Sure.

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1 Q -- or is that Mr. Columbo's records?  
2 A These are the ones he gave to me.  
3 MR. COLUMBO: Right.  
4 BY MR. COHEN:  
5 Q Can you put a pencil mark where you see it?  
6 A (Indicating.)  
7 Q You have circled it.  
8 Can I see what you have circled?  
9 A (Indicating.)  
10 Q What is it about what you have circled that leads  
11 you to believe that that was the start of fetal  
12 bradycardia?  
13 A Well, it's the first place where I can clearly tell  
14 on the fetal monitor record that the fetal heart rate  
15 would qualify as being bradycardic.  
16 Q Let me see it.  
17 (Brief pause.)  
18 MR. COLUMBO: Go back a page (indicating).  
19 BY MR. COHEN:  
20 Q Your circle is actually on 55700?  
21 MR. COLUMBO: I think that's the beginning of  
22 701.  
23 BY MR. COHEN:  
24 Q Is that the beginning of 701?  
25 A Yes.

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1 Q Okay.  
2 Is there any evidence of fetal bradycardia on 55699?  
3 A No. There is, really, nothing that's definitely  
4 fetal heart rate on that. If you take a look at 55698,  
5 just in front of that, there is some heart rate, but I'm  
6 not sure if that's maternal or fetal. If it would be  
7 fetal, it would be bradycardic, yes, but I don't think you  
8 can tell what that is.  
9 Q How about 55700?  
10 A The same thing. This (indicating) is a lot of  
11 electrical interference here, presumably electrical  
12 anomaly on the basis of fetal movement. It is not a good  
13 contact between the external electrode and the fetal head,  
14 so you have got all of this artifact (indicating), and it  
15 is really hard to tell -- it is impossible to say with any  
16 degree of accuracy that there is anything in there.  
17 Q All right.  
18 Now, 55698, you said that you could barely see a  
19 heartbeat of any kind, you didn't know whether it was  
20 maternal or fetal?  
21 A 98, the portion that I have --  
22 Q Is that all of it?  
23 A Yes, I think that's probably all of 98 there. It  
24 looks like a minute. Yes, that is right.  
25 Q The only heartbeat we see is right above 60; isn't

Page 7

1 that right?  
2 A Right.  
3 Q What is the fetal heartbeat at 55697?  
4 A It's not recorded.  
5 Q What is the fetal heart rate at 55696?  
6 MR. COLUMBO: Just look off of nine  
7 (indicating).  
8 A Again, it's not recorded. There is nothing in that  
9 block.  
10 Q What is the --  
11 A Excuse me, Mr. Cohen.  
12 Are you referring to this one block where the  
13 blocks -- you are including all three blocks?  
14 Q No.  
15 55696.  
16 A Okay.  
17 I think that really includes three blocks, looking  
18 at it now. I was doing the same thing you were. Do you  
19 see what I mean? 95 is three blocks, 96 is three blocks.  
20 Do you see what I mean? It's really three minutes. I  
21 think 96 goes from here to here (indicating).  
22 Q Right.  
23 Looking at 96, what is the fetal heart rate?  
24 A The fetal heart rate in 96 is about 80 with a depth  
25 of just under 60.

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1 Q What is it in 95?  
 2 A There is a baseline of about 145 with a deceleration  
 3 to 80 which continues into the next block.  
 4 Q What is it at 94?  
 5 A At 94 it's a baseline of 140. There is a recovering  
 6 deceleration at the beginning of the first block of 94.  
 7 Q How far did it drop down?  
 8 A The deceleration occurs in 55693. There is no way  
 9 to really tell how far the depth is.  
 10 Q How long did it stay low?  
 11 A Again, it is not possible to tell. Probably --  
 12 MR. COLUMBO: Don't guess at it.  
 13 A Well, you have three centimeters per minute --  
 14 two-thirds of a minute. Forty-five seconds.  
 15 Q Where are you looking at the forty-five seconds?  
 16 A If you take a look at 55693, where the deceleration  
 17 begins, at the beginning of that block and each centimeter  
 18 being -- this is three centimeters or a minute. Instead of  
 19 one centimeter. So you have a three-centimeter block.  
 20 You have some heart rate that descends to 120 in the block  
 21 just under 55693, then you have got what looks like an  
 22 acceleration of the heart rate, where it goes up to about  
 23 170 in the next block.  
 24 Q You are at 593?  
 25 A This here up to here (indicating).

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1 See, I think we are confused, because I'm  
 2 considering this (indicating) to be three blocks.  
 3 Q Go ahead.  
 4 What do you see at 93?  
 5 A What I'm saying here is: If we begin here  
 6 (indicating), we have got a baseline heart rate of about  
 7 140, we have got what looks like the heart rate going up  
 8 here (indicating), accelerating to about 160, 170 -- it is  
 9 hard to read upside down -- you have got another thing up  
 10 here around 2:10, which may be part of the heartbeat, then  
 11 from here you have got another deceleration that brings it  
 12 down to here. Whether it went lower in here, there's no  
 13 way to tell because there is nothing recorded.  
 14 Q Can you tell whether the line that you are looking  
 15 at that goes up to 170 is the fetal heartbeat?  
 16 A Well, it would be very unlikely that it would be  
 17 anything other than that, because the maternal heart rate  
 18 is nothing like this at this point, it is under 100.  
 19 Q You don't know how low the heartbeat goes?  
 20 A No. It is not recorded.  
 21 Q Is this a late deceleration?  
 22 A There is no way to tell what kind of a deceleration  
 23 it was. It's, probably, not a late deceleration, though.  
 24 If you take a look at, again -- it is better if I show you  
 25 this way (indicating). On 55693, we have the

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1 deceleration, a deceleration beginning here (indicating),  
 2 and it looks like it begins with the beginning of the  
 3 contraction. There is some depth to it. There is  
 4 recovery, there is good recovery, with an acceleration  
 5 heart rate going up here, so I would say that one is,  
 6 probably, an early deceleration.  
 7 This one, it is impossible to tell what kind it is  
 8 because you don't even know where it begins, all you are  
 9 catching is the end of it, the return.  
 10 Q Would it be fair to say that this strip isn't clear  
 11 enough to tell us whether it would be non-reassuring or  
 12 reassuring?  
 13 MR. COLUMBO: Based on this one panel?  
 14 MR. COHEN: That is right.  
 15 A No, at that particular point in time there is no way  
 16 to tell.  
 17 Q Is there anything about strip 95 and 96 which would  
 18 tell us that it is reassuring or non-reassuring?  
 19 A No.  
 20 Q Is there anything about strip 97 or 98 -- I am  
 21 talking about 55697 or 55698 -- that would tell us whether  
 22 we have a reassuring or non-reassuring fetal heartbeat?  
 23 A I think the 98 here, looking at it, because the  
 24 panels aren't contiguous, they overrun pages -- I think it  
 25 begins to be non-reassuring, definitely, in 55698 because

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1 I think that has to be fetal heart rate which they are  
 2 recording at 60 at that point, 55698, second block, 1900.  
 3 Q All right.  
 4 Moving backwards, look at panels 55690 and 55691.  
 5 Are these late decelerations?  
 6 A No.  
 7 I think these are head compressions, decelerations  
 8 from head compression. The patient is sitting up for this  
 9 epidural anesthetic, the deceleration has the uniform wave  
 10 form. It begins early in the contraction and comes back  
 11 after the contraction. I think these are probably  
 12 decelerations from head compression.  
 13 Q Is this a reassuring pattern to you?  
 14 A No.  
 15 It is neither reassuring or non-reassuring. Head  
 16 compression is frequently seen, but I would classify it as  
 17 neither.  
 18 Q When you see a head compression, is that cause for  
 19 alarm?  
 20 A No.  
 21 That's, again, thought to be a normal physiologic  
 22 process, that as the baby's head comes down the birth  
 23 canal and pressure is put on the head and it squeezes, it  
 24 produces a vagal response, which is a response whereby the  
 25 tenth cranial nerve from the head slows the heart rate in

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1 response to head compression.  
 2 Q Why wouldn't these strips be reassuring?  
 3 A Well, because for a a strip to be reassuring, I  
 4 would consider that to be a tracing without any  
 5 decelerations, whatsoever, that lasted over a minute. I  
 6 think any tracing that has a deceleration lasting longer  
 7 than a minute, no matter what the type, is cause for  
 8 observation.  
 9 Q For that reason, it is not reassuring to you?  
 10 A Right.  
 11 Q On panels 55688 and 55689, is there enough  
 12 information on these panels to have a reassuring or  
 13 non-reassuring reading?  
 14 A No.  
 15 Q On panels 55686 and 55687, is there enough  
 16 information for there to be a reassuring or non-reassuring  
 17 reading?  
 18 A I would consider that to be reassuring, through  
 19 those panels, through those six minutes.  
 20 Q Do you see any decelerations there, any subtle  
 21 decelerations?  
 22 A Yes. There is a mild variable deceleration here at  
 23 the very, very end of what I have on my page of 55687,  
 24 right here (indicating).  
 25 Q Does that appear before or after the contraction?

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1 A There is no way to tell because there are no  
 2 contractions recorded, but it wouldn't matter.  
 3 Q Well, if it was a late deceleration; wouldn't it  
 4 matter?  
 5 A Well, no. If I am saying it is a variable  
 6 deceleration, I can't be saying it is a late at the same  
 7 time.  
 8 What I'm saying is that a variable deceleration has  
 9 a variable wave form and a variable time of onset during  
 10 the contraction, so a variable deceleration can occur late  
 11 in the contraction. All decelerations that occur late in  
 12 a contraction I would not consider a late deceleration.  
 13 Q You would consider them a variable deceleration with  
 14 a late component?  
 15 A Not necessarily.  
 16 I think that you can have pure variable  
 17 decelerations and that would be a good example of one, if  
 18 that did occur late in the contraction. You can have pure  
 19 variable decelerations occurring late. By variable  
 20 deceleration, I mean one that is variable in wave form,  
 21 they don't all look the same, although they tend to have a  
 22 V-shape pattern, but they are also variable in onset,  
 23 sometimes they occur in the middle of the contraction,  
 24 sometimes they occur at the end of the contraction.  
 25 Q For there to be a reassuring sign, don't you have to

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1 see where these decelerations occur in relation to  
 2 contractions?  
 3 A No, because on this -- and we are talking about  
 4 these panels right here; correct?  
 5 Q I guess my question is this: For a completely  
 6 reassuring sign, you want to see the fetal heart rate in  
 7 relation to contractions; isn't that a fair statement?  
 8 A Not necessarily.  
 9 I think that if you have a fetal monitor tracing  
 10 that looks perfectly normal without any significant  
 11 decelerations, it doesn't matter whether there are  
 12 contractions present or not. That's how we can read fetal  
 13 monitor tracings on people who are not in labor. When you  
 14 look at non-stress tests as you have seen in this case,  
 15 these are, generally, tests done on people who may not  
 16 have any contractions at all. You can still say that  
 17 there are decelerations present there, tachycardia,  
 18 bradycardia, a reassuring or non-reassuring tracing. The  
 19 presence of contractions is not necessary.  
 20 Q You don't see any reason to monitor a woman's  
 21 contractions?  
 22 A No, I didn't say that at all.  
 23 I think you get a lot of important information from  
 24 monitoring the contractions, but I think if the  
 25 contractions are not present and the tracing looks

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1 perfectly normal, you don't need to see the contraction.  
 2 Q Why do you monitor the contractions at all, if you  
 3 can tell reassuring strips without contractions?  
 4 A Well, there is a lot of reasons to monitor the  
 5 contractions. First, the reason is to see if somebody is  
 6 in labor; that would be the first reason. The second  
 7 reason would be to see how long they last. The third  
 8 reason would be to see how frequently they are. Without  
 9 going into a lot of others, another reason would be to see  
 10 if, in the presence of contractions, how they relate to  
 11 the decelerations, but if you have no significant  
 12 decelerations, there is no real reason to monitor the  
 13 contractions.  
 14 Q On panels 55685 and 55684, do you have enough  
 15 information to have a reassuring or non-reassuring  
 16 pattern?  
 17 A That looks reassuring to me.  
 18 Q You don't see any decelerations in that pattern?  
 19 A Well, I think that there are decelerations, but I'm  
 20 saying that I think decelerations are a normal process of  
 21 labor. If you look at the literature, people having  
 22 babies have well over ninety-eight percent incidence of  
 23 decelerations in the second stage of labor alone, so the  
 24 vast majority of women have decelerations in labor. The  
 25 presence of decelerations does not mean that the tracing

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1 is non-reassuring.  
2 Q Just so I understand your position here, the first  
3 time that you see a reassuring pattern is at what panel?  
4 MR. COLUMBO: Wait a minute.  
5 A A reassuring?  
6 Q That is right, a reassuring panel.  
7 MR. COLUMBO: You want to go back to the  
8 beginning?  
9 MR. COHEN: No. With respect to the panels  
10 that we have discussed.  
11 MR. COLUMBO: Let me object to the form of  
12 the question.  
13 MR. COHEN: Why?  
14 MR. COLUMBO: When you say the first time he  
15 sees a reassuring pattern, you are saying from -- what?  
16 You have gone, obviously, backwards.  
17 MR. COHEN: The earliest reassuring pattern  
18 that he sees.  
19 A The earliest?  
20 MR. COLUMBO: From the end?  
21 MR. COHEN: From the panels that we have  
22 discussed.  
23 A The earliest panel that you named -- and I forget.  
24 I think it is 55683.  
25 MR. COLUMBO: Let me place an objection to

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1 the form of the question on because I think it can be  
2 construed as confusing.  
3 BY MR. COHEN:  
4 Q Would you agree with me, just to clear up your  
5 position here, that on panel 55683, which you say is a  
6 reassuring panel -- is that right?  
7 A Yes.  
8 Q How long can you monitor the fetal heart rate?  
9 MR. COLUMBO: In what sense?  
10 MR. COHEN: In 55683.  
11 BY MR. COHEN:  
12 Q The reason I am asking is because it appears as  
13 though on 55681 and 55682 you can't read what the fetal  
14 heart rate is.  
15 You would agree with that; wouldn't you?  
16 MR. COLUMBO: Well, wait a minute.  
17 THE DEPONENT: Let me try to do the first  
18 question.  
19 MR. COLUMBO: Yes.  
20 A On 55683 there is continuous monitoring for 75  
21 seconds from the beginning of what I see here -- I'm  
22 sorry. Not 75. 80 seconds.  
23 MR. COLUMBO: Are you going back, though, to  
24 the --  
25 THE DEPONENT: I'm going forward towards --

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1 well, no, I am not.  
2 MR. COLUMBO: Let's make sure you get the  
3 entire panel.  
4 THE DEPONENT: All right.  
5 A I'm not looking at the whole panel.  
6 There is a previous panel here. Do you see what I  
7 mean? Look, Mr. Cohen (indicating). Here is what I was  
8 talking about. Now, turning a page, I see that there is  
9 more to it, there is this (indicating). Okay? Is that  
10 what you meant when you were asking?  
11 Q Yes.  
12 A Okay. I didn't see that because that was on the  
13 back page.  
14 MR. COLUMBO: Let's go over the question  
15 again to make sure he is clear.  
16 A This is what you meant and I didn't see that.  
17 Q Your answer is that in between 55682 and 55683 you  
18 see the beginning of a reassuring pattern; is that  
19 correct?  
20 A No.  
21 I'm changing my answer because I didn't see what was  
22 on the previous page here, and that's this deceleration  
23 (indicating).  
24 Q All right.  
25 A That was not in what I was looking at.

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1 Q All right.  
2 A I would say this is something which, again, would be  
3 a deceleration lasting a minute, which is, as I said  
4 previously, to me, cause for concern and cause for further  
5 investigation.  
6 Q All right.  
7 A I would look at the length of it, which looks to be  
8 about 60 seconds, maybe 65 seconds, I would look at the  
9 depth of it. The deceleration goes from, oh, what looks  
10 like --  
11 MR. COLUMBO: Turn it around so you can see  
12 it, Doctor.  
13 THE DEPONENT: Yes. That's probably better  
14 than reading it upside down.  
15 A The deceleration appears to drop from about 150 down  
16 to 100, and then to return. Now, at the bottom of the  
17 deceleration, at the top of it, there is variability in  
18 it, it's not a flat line down there, so that's a good sign  
19 and then I would watch the way the response is. As it  
20 comes back to baseline, there is not a loss of variability  
21 and there is no rebound tachycardia, the baby does not  
22 begin a tachycardia. While I would not call this  
23 reassuring, I wouldn't be worried about this (indicating).  
24 MR. COLUMBO: And by that, you are referring  
25 to 55683?

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1 THE DEPONENT: 55683, right.  
 2 BY MR. COHEN:  
 3 Q Now, is there some point after that that you get a  
 4 reassuring pattern?  
 5 A Again, I think that I would look at the pattern as a  
 6 whole, the tracing as a whole, and I would say that it is  
 7 reassuring up to the point that we talked about earlier,  
 8 where the patient has what I think are head compressions  
 9 from early decelerations.  
 10 Q At what panel?  
 11 A 55690 and 91, where the head compressions are.  
 12 Q You think that panels 55683 to 55690 are reassuring?  
 13 A Well, with what can be read in there, yes.  
 14 Q Well, that's why I asked the question.  
 15 Can you read enough to tell whether or not it is  
 16 reassuring or non-reassuring?  
 17 A Yes.  
 18 Q You can?  
 19 A Yes.  
 20 Q There is enough information on these pages to tell  
 21 you that it is reassuring?  
 22 A Well, again, I'm looking at the whole context of the  
 23 tracing. I don't think that it would be accurate to  
 24 separate one panel out and say this is reassuring or  
 25 non-reassuring. It is whether the whole tracing, the

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1 pattern of the recent tracing, is reassuring or  
 2 non-reassuring. I mean, to look at ten seconds of a  
 3 tracing is not a valid way to examine it.  
 4 Q Well, how many seconds do you have to look at a  
 5 pattern to tell whether it is reassuring or  
 6 non-reassuring?  
 7 A Well, I think it depends on the circumstances, it  
 8 depends upon what you see, but, generally, you try to  
 9 judge the tracings as a whole or over a long period of  
 10 time.  
 11 Q Well, the deceleration that you looked at just after  
 12 55682 gave you cause for suspicion, I think were your  
 13 words.  
 14 MR. COLUMBO: Let me object. I don't think  
 15 those were his words.  
 16 A It gave me cause for concern.  
 17 Q Okay.  
 18 At what panel is that concern alleviated?  
 19 A Partially by 55682 and 55683.  
 20 The things that I think look good about this are the  
 21 fact that there is variability in the bottom of the  
 22 tracing and the way the deceleration recovers. When this  
 23 deceleration ends, there is not a tachycardia or a loss of  
 24 variability that would indicate hypoxia.  
 25 Q The same deceleration that is giving you cause for

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1 concern, then, is also alleviating that concern?  
 2 A That, and the period afterwards, sure.  
 3 Q What is it about the period afterwards that  
 4 alleviates any concern you had by a deceleration --  
 5 A I'm sorry. I apologize if I'm not making myself  
 6 clear.  
 7 In looking at a deceleration, you have to look at a  
 8 number of things: the wave form, the time of onset, the  
 9 depth of the deceleration, the amplitude, the length, and  
 10 what happens after the deceleration, also the degree of  
 11 variability during the deceleration. Putting all of those  
 12 factors together, I would not be concerned about this,  
 13 after seeing --  
 14 Q So now you are not concerned?  
 15 A No, it is not a question of "now." It is a question  
 16 of semantics here.  
 17 What I'm saying is to look at an isolated panel with  
 18 a deceleration that would last a minute would concern  
 19 anyone. What you have to do is look at that and the  
 20 tracing afterwards, the rest of the tracing. Now, what  
 21 I'm saying is the way the baby, the fetus, recovers from  
 22 that deceleration is reassuring and the way it responds  
 23 during it.  
 24 Q After that deceleration that you initially told me  
 25 gave you cause for concern --

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1 MR. COLUMBO: At 55682?  
 2 MR. COHEN: Yes.  
 3 A As I have said before, any deceleration lasting a  
 4 minute would give me cause for concern and cause to study  
 5 it.  
 6 Q After panel 55683, the mother's contractions are not  
 7 recorded?  
 8 A That's correct.  
 9 Q Despite that --  
 10 MR. COLUMBO: Wait a minute.  
 11 BY MR. COHEN:  
 12 Q Are not recorded until -- when?  
 13 A Oh, I'm sorry. I thought you meant that specific  
 14 panel.  
 15 Q No.  
 16 When is the first time that contractions are  
 17 recorded?  
 18 A Again, 55689.  
 19 Q 55689, okay.  
 20 Despite that, you believe that --  
 21 MR. COLUMBO: For purposes of the record, it  
 22 says that she was off of the epidural --  
 23 MR. COHEN: I understand that.  
 24 MR. COLUMBO: -- at 55684.  
 25 --

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1 BY MR. COHEN:

2 Q What does that mean; "off for epidural"?

3 MR. COLUMBO: I think they're hand holding.

4 MR. COHEN: I am asking Dr. Kane.

5 MR. COLUMBO: Oh, I'm sorry. I thought you  
6 were asking me.

7 A I don't know what they mean.

8 I think we would have to ask the nurse, Denise, what  
9 she means by that.

10 Q Well, if you are telling us that this panel was  
11 reassuring and yet we see that somebody's off for epidural  
12 and you don't know what that means, how does that fall  
13 into your opinion that this was reassuring?

14 A Because I don't need to know what it means to say  
15 this is reassuring. There is enough evidence here to say  
16 that. This much of it that we are looking at  
17 (indicating), 55682, with the recovering 55683 and the  
18 period you are asking me about, 55683 to 55685, I would  
19 call that reassuring, there is enough there to judge.

20 Now, the only thing that would make a difference  
21 would be if -- well, that wouldn't make a difference.  
22 There is plenty there to judge. There is nothing here  
23 that would be of concern. There is nothing here -- I  
24 mean, how do you define a reassuring tracing? I would  
25 define a reassuring tracing as one that lacks the

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1 characteristics of a non-reassuring tracing, and those are  
2 well-defined.

3 Q Say that again. You would define --

4 A A reassuring tracing is one which lacks the  
5 characteristics of a non-reassuring tracing, and those are  
6 well-defined.

7 What they're saying here is that they're holding the  
8 fetal monitor on by hand and it is recording.

9 Now, I don't know what "off for epidural" means, but  
10 what you see here is absolutely reassuring. There is  
11 no --

12 Q In the absence of defined patterns of fetal  
13 distress, you assume that the fetus is fine?

14 A No.

15 MR. COLUMBO: I would object to the form of  
16 the question.

17 BY MR. COHEN:

18 Q Well, you told us that in the absence of  
19 non-reassuring signs, you assume that the strip is  
20 reassuring. Did I accurately state your position here?

21 A Yes.

22 MR. COLUMBO: Why don't you let him state his  
23 position as opposed to you doing it?

24 THE DEPONENT: Well, I think that was it.

25 A I would define this as reassuring because of the

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1 absence of non-reassuring signs.

2 Now, your subsequent question was in the absence of  
3 patterns of fetal distress, and non-reassuring fetal  
4 monitor tracings are not the same as fetal distress,  
5 they're very different.

6 Q Can I see your copy? You circled -- let me see.

7 What was the first thing I asked you to circle?

8 MR. DIITMAR: The bradycardia.

9 THE DEPONENT: Right, the bradycardia.

10 MR. DIITMAR: 701. 55701.

11 BY MR. COHEN:

12 Q Now, I want you to circle the strip previous to the  
13 bradycardia where the strip is reassuring.

14 A Okay.

15 MR. STUHR: What bradycardia are we referring  
16 to, what pattern?

17 THE DEPONENT: What occurs at 55700.

18 MR. STUHR: Okay.

19 MR. COLUMBO: It is really at the end of 00,  
20 the beginning of 01.

21 MR. STUHR: All right.

22 MR. COLUMBO: The question is circle --

23 MR. STUHR: We are going backwards?

24 MR. COLUMBO: Right.

25 MR. COHEN: Going backwards, where the strip

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1 is reassuring.

2 BY MR. COHEN:

3 Q I am not referring to a panel where you can't tell  
4 whether it is reassuring or non-reassuring.

5 Where do you first see, working backwards, a  
6 reassuring panel?

7 A 55688.

8 Q 55688, as I understand it, doesn't have enough  
9 information to tell you whether it is reassuring or  
10 non-reassuring. Is that right?

11 A I thought you were asking me for the retrograde  
12 beginning.

13 Q Okay. I am.

14 A I'm saying if you start there and go backwards into  
15 55687, that's where the reassuring pattern begins.

16 Q Where you are starting, just so I understand this,  
17 is between 55687 and 55688; is that right?

18 MR. COLUMBO: No.

19 A See, again, I'm calling 55688 three separate panels.

20 Q Well, circle what you are calling --

21 A The beginning of it?

22 Q Yes.

23 MR. COLUMBO: No. That would be the end of  
24 it.

25 MR. COHEN: Well, actually, if we go from the

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1 earliest to --  
 2 A The retrograde beginning?  
 3 Q Yes.  
 4 A All right.  
 5 I did it.  
 6 Q Just to make this clear, that would be the end of a  
 7 reassuring panel; is that right?  
 8 A That's correct.  
 9 Q That's what you have circled.  
 10 Why don't you put your initials where you circled  
 11 that. Just so we are clear?  
 12 A (Deponent complies.)  
 13 Q What time is that?  
 14 A 6:28.  
 15 MR. STUHR: Are you referring to the first  
 16 panel of 55688?  
 17 MR. COLUMBO: Yes.  
 18 THE DEPONENT: Correct, 6:28 p.m.  
 19 MR. COLUMBO: Are you hearing all of this  
 20 okay?  
 21 MR. STUHR: Yes.  
 22 BY MR. COHEN:  
 23 Q Between 5:00 -- I'm sorry.  
 24 From 6:28 --  
 25 A 55 -- give me the whole number,

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1 Mr. Cohen.  
 2 MR. COLUMBO: 55688.  
 3 THE DEPONENT: Oh, "88."  
 4 A I thought you said "28."  
 5 Q From the time --  
 6 A 6:28.  
 7 Q Working towards delivery, when is the next time that  
 8 you see a panel that is reassuring?  
 9 MR. STUHR: Going forward from 55688?  
 10 MR. COLUMBO: Yes, towards delivery.  
 11 THE DEPONENT: Forward in time, okay.  
 12 BY MR. COHEN:  
 13 Q Again, I am not referring to panels that are neither  
 14 non-reassuring nor assuring.  
 15 A Okay.  
 16 Well, 55692, the second panel -- I guess it is the  
 17 third panel of that, we have two minutes and twenty  
 18 seconds of a reassuring tracing.  
 19 MR. COLUMBO: Do you want him to continue?  
 20 MR. COHEN: Yes.  
 21 A The last time that the tracing looks reassuring  
 22 would be in 55693.  
 23 I'm going to circle that point (indicating).  
 24 Q What you are using as a basis for the reassuring  
 25 fetal monitor pattern is the markings between 55692 and

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1 55693; is that right?  
 2 A That's correct.  
 3 There is just about two minutes and -- now that I  
 4 marked it, I can't tell -- twenty to two minutes and  
 5 thirty seconds of reassuring tracing there.  
 6 Q Just so we are clear here, the markings at 55693 to  
 7 55694, are non-reassuring, or you don't know?  
 8 MR. COLUMBO: Let me object because the  
 9 question has been asked and answered. He said you can't  
 10 tell one way or the other.  
 11 Go ahead and answer the question.  
 12 THE DEPONENT: Okay.  
 13 A Well, there is no tracing here to Judge, so I don't  
 14 think you can tell one way or the other up until 55698,  
 15 the third panel.  
 16 Q Dr. Mupas, in his deposition, told us that he walked  
 17 into the patient's room at 6:50, exchanged pleasantries  
 18 with the family, and left the room without looking at the  
 19 fetal monitor strip.  
 20 In your opinion, is that a deviation from the  
 21 standard of care inasmuch as Dr. Mupas hadn't seen this  
 22 patient for hours?  
 23 MR. COLUMBO: Let me object to the form of  
 24 the question.  
 25 Are you assuming in that question that Dr. Mupas was

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1 aware of problems with the fetal monitoring strip or was  
 2 he not aware of any problems with the fetal monitoring  
 3 strip, or either way?  
 4 MR. COHEN: Either way.  
 5 BY MR. COHEN:  
 6 Q If there is a difference, you can explain the  
 7 difference.  
 8 A Okay.  
 9 Could you repeat the question?  
 10 Q In Dr. Mupas' deposition, he said that he came into  
 11 the patient room at 6:50, exchanged pleasantries with the  
 12 family, left the room, and didn't review the fetal monitor  
 13 strip.  
 14 Inasmuch as Dr. Mupas hadn't seen this patient for  
 15 hours, would you consider that a deviation from the  
 16 standard of care?  
 17 A I think it would be hard to say. It would depend  
 18 upon what his intention was. If he intended to come back  
 19 and reassess the patient, you know, shortly, then that  
 20 would be something that would be consistent with the  
 21 standard of care.  
 22 I'm not sure if he just poked his head in the room  
 23 to say hello and went and changed his clothes and intended  
 24 to come back. I don't know, but I think, obviously, at  
 25 some point shortly after he arrived at the hospital he

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1 should have examined the patient and talked to the nurses,  
2 talked to the patient and examined the monitor strip.  
3 Q I'm not sure what your answer is.  
4 A Well, my answer is that it would depend upon what  
5 his intention was. If he, simply, popped his head in to  
6 say, "Hello, I'm here," and intended to get into his scrub  
7 suit to deliver the baby and come back, examine and the  
8 patient and the tracing, then that was acceptable, but I  
9 don't know what his intention was at that point in time.  
10 That's not an adequate examination of the patient,  
11 no.  
12 Q An adequate examination of the patient would include  
13 reading the fetal monitor strip; wouldn't it?  
14 A And examining the patient, yes.  
15 Q Do you agree that continuous late decelerations are  
16 an ominous sign?  
17 A Yes.  
18 Q Do you agree that where continuous late  
19 decelerations are subtle, that can, also, be an ominous  
20 sign?  
21 MR. COLUMBO: Let me object to the form of  
22 the question.  
23 I guess it would depend on your definition of what  
24 "continuous" is.  
25 MR. COHEN: Well, Dr. Kane seemed to know

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1 when I asked him the last time.  
2 MR. COLUMBO: Well, I think that question was  
3 objectionable, too, and I should have objected.  
4 I think it depends on who is defining "continuous."  
5 Is "continuous" one every hour? Is "continuous" one every  
6 three to five hours?  
7 BY MR. COHEN:  
8 Q When I am using the term "continuous," I am meaning  
9 late decelerations that occur with most contractions.  
10 A That's the same definition that I'm using. That's  
11 the ACOG definition; a late deceleration that occurs with  
12 most of the contractions.  
13 Q All right.  
14 A I'm sorry. I lost the question.  
15 Q Would you agree that where late decelerations are  
16 continuous, even where they are subtle, that that is an  
17 ominous sign?  
18 A Well, I would say that it can be, but it's not  
19 necessarily an ominous sign.  
20 Q Would you agree that there are circumstances where  
21 subtle late decelerations can be even more ominous than  
22 pronounced late decelerations?  
23 A No.  
24 I can explain, if you want.  
25 Q Go ahead.

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1 A Because of the mechanism of late decelerations, I  
2 think that what happens with late decelerations that are  
3 subtle and where the amplitude isn't large -- and by that,  
4 I mean they don't drop a great deal -- is a reflex of  
5 slowing of the heart that occurs, because of decreased  
6 oxygen tension in the blood. I think that when you have  
7 deep late decelerations which are larger, the mechanism is  
8 different. They are occurring because of a direct effect  
9 on myocardial contractility, a direct effect on the heart  
10 muscle. A deep late deceleration means that the heart  
11 muscle is hypoxic, whereas a subtle late deceleration  
12 works by an entirely different mechanism.  
13 There are chemoreceptors in the blood called  
14 chemoreceptors and pressure receptors called  
15 baroreceptors, and they will reflexively slow the heart  
16 depending upon the concentration of oxygen in the blood,  
17 and those produce subtle or smaller late decelerations.  
18 The deeper late decelerations usually reflect a change in  
19 myocardial contractility on the basis of myocardial  
20 oxygenation.  
21 Q Are you familiar with medical literature which says  
22 that subtle decelerations can be more ominous than deep  
23 decelerations?  
24 A No.  
25 Q Is this the first time that you have heard that

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1 notion; from me today?  
2 A Yes.  
3 Q Okay.  
4 MR. COHEN: Let's take a break.  
5 MR. COLUMBO: We are going to take two  
6 seconds here, Rich.  
7 MR. STUHR: Okay.  
8 (Brief break.)  
9 MR. COLUMBO: Rich, are you there?  
10 MR. STUHR: Yes.  
11 BY MR. COHEN:  
12 Q Dr. Kane, I am looking at the legal pleading called  
13 "Identification of Expert Witness By Defendant Weirton  
14 Medical Center," where it says that their lawyers expect  
15 that you are going to testify that the placental abruption  
16 was the cause of the injuries sustained by  
17 Jeffrey Konnovitch.  
18 Is that your opinion?  
19 A Yes.  
20 Q How did the placental abruption cause  
21 Jeffrey Konnovitch's injuries?  
22 A Well, placental abruption is a separation of the  
23 placenta from the wall of the uterus. Essentially, what  
24 happens is the placenta is the source of the fetus'  
25 nourishment and oxygenation, and when the abruption occurs

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1 there is a loss of nourishment and oxygenation and there,  
2 also, is the release of a number of chemicals into the  
3 circulation which are damaging. Obviously, this creates a  
4 hypoxic event, so that there is a drop in the fetus'  
5 oxygen tension within the blood. There are chemicals,  
6 tissue thromboplastins and a whole series of vasoactive  
7 compounds -- and by that, I mean compounds that affect the  
8 circulation -- that are released into the blood that are  
9 damaging, and as a result of this damage, the baby goes  
10 into shock, which is a circulatory collapse, the blood  
11 pressure drops, the heart stops, and oxygenation of the  
12 fetus ceases.

13 Q When did this process begin?

14 A It's difficult to pinpoint it exactly, but I think  
15 that it probably occurs sometime after the second  
16 epidural, during the time the epidural anesthesia is being  
17 given, sometime after that. There is really nothing in  
18 this tracing that would concern me up until that time.  
19 It's after that -- let me just take a look at my notes to  
20 see if I can give you a time.

21 THE REPORTER: Excuse me.

22 MR. COHEN: Sure.

23 MR. COLUMBO: We are going to take a second  
24 break here. We need a charge.

25 (Brief break.)

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1 BY MR. COHEN:

2 Q Okay.

3 A I think that the question was when was the first  
4 evidence that the abruption was beginning. Correct?

5 Q No.

6 A Okay.

7 Q I asked you when the process where the brain injury  
8 occurred began, and I thought you said that you were  
9 looking through the strip after the epidural and you  
10 didn't see any evidence of it.

11 MR. COLUMBO: You are saying the actual brain  
12 injury?

13 MR. COHEN: Yes.

14 BY MR. COHEN:

15 Q Do you know when the brain injury occurred?

16 A No.

17 Q Would you defer to a pediatric neurologist for such  
18 an opinion?

19 A Well, it would depend on the neurologist, yes.

20 Q As an obstetrician, that would be beyond your area  
21 of expertise; wouldn't it?

22 A Yes.

23 Q You mentioned something about the abruption  
24 occurring after the epidural was given. Didn't you say  
25 that?

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1 MR. DITTMAR: After the second.

2 BY MR. COHEN:

3 Q After the second epidural was given. Did you say  
4 that?

5 A Well, I think it's hard to tell when it actually  
6 began, but the first time you begin to see evidence that  
7 something has happened is after the second epidural.

8 MR. DITTMAR: Did he circle something and  
9 what was it?

10 THE DEPONENT: I'm sorry?

11 BY MR. COHEN:

12 Q You circled something about when you believed the  
13 abruption began, I thought.

14 MR. COLUMBO: You are talking about in a  
15 prospective manner now, obviously, looking back?

16 A Well, in a prospective manner, I don't think that  
17 you could say that until what I have circled here, 5700.

18 Retrospectively, looking back on this, there is a  
19 note in the nurses' notes at 6:52 that the fetal heart  
20 rate is 80. If you read the nurses' depositions and -- I  
21 hope I pronounce his name right -- Mr. Konnovitch's -- is  
22 that your client's name?

23 Q Konnovitch, yes.

24 A If you read those and Mr. Konnovitch's deposition, I  
25 think they kind of describe the same thing, that after the

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1 second epidural, at about this point in time, they lost  
2 the fetal heart tones, the nurse left the room to get the  
3 doctor.

4 Q That's at 6:52 p.m.?

5 A Well, right around in there. It's hard to tell  
6 exactly when. The first nurse's note I can see that the  
7 heart tones are down is 6:52.

8 Q What else is it at 6:52? It's Mr. Konnovitch's  
9 testimony, the nurse's --

10 A Well, he doesn't --

11 MR. COLUMBO: Wait, wait.

12 THE DEPONENT: I'm sorry.

13 BY MR. COHEN:

14 Q The nurse's note that the heart rate is down?

15 A Yes.

16 Q Anything else?

17 A Well, again, it's hard to pinpoint the time.

18 What I am saying is sometime after the second  
19 epidural, and this is retrospectively, going back and  
20 looking at it.

21 If you take a look at Denise Schreiner's deposition,  
22 I think that she says something to the effect that after  
23 the second epidural occurred -- I don't have it in my  
24 notes, so I could be wrong. Let me look at her  
25 deposition.

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1 MR. COLUMBO: What are you looking for?  
 2 A I thought that in her deposition she was asked about  
 3 the events that occurred after the epidural. Do you  
 4 remember that?  
 5 Q No.  
 6 A Okay. Well, then I'm mistaken. You would know  
 7 better than I.  
 8 Q You believe that the abruption process occurred one  
 9 minute after Dr. Mupas left the room, the first time he  
 10 was there? Is that your testimony?  
 11 A No.  
 12 Q You say 6:52. He came in the room at 6:50, he was  
 13 there for about a minute, and you believe one minute after  
 14 he leaves the room the abruption process starts; is that  
 15 your testimony?  
 16 A No.  
 17 What I said is that I think sometime after the  
 18 second epidural is when the abruption occurred.  
 19 Q You mentioned 6:52; right?  
 20 A Right.  
 21 What I'm saying is that's the first time I see  
 22 evidence on the chart that something is going wrong, and  
 23 that is from the nurses' notes.  
 24 Q Do you think that it's a complete coincidence that  
 25 one minute after Dr. Mupas leaves the room that you will

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1 contractions. It's really impossible for the bleeding to  
 2 stop. Once the patient is in labor, which I think occurs  
 3 sometime after 3:12, the abruption has to have begun  
 4 sometime after that.  
 5 Q If the placenta is becoming separated from the  
 6 uterine wall, would that not affect the flow of blood to  
 7 the fetus?  
 8 A Yes.  
 9 Q If the flow of blood to the fetus is affected, might  
 10 that not be reflected in fetal monitor strips?  
 11 A It might be, but it would have to be a very large  
 12 amount of blood flow affected. As I say, there are people  
 13 who have small abruptions frequently throughout pregnancy,  
 14 there are people who have chronic abruptions that last for  
 15 weeks. It has to be a very large abruption to produce  
 16 hypoxia.  
 17 Q Fifty percent?  
 18 A Big enough.  
 19 Q Fifty percent would be big enough to be reflected in  
 20 abnormal fetal heart tracings; wouldn't it?  
 21 A Well, it's hard to say, because fetal heart  
 22 monitoring is, simply, not that reliable that anyone in  
 23 the world would say that if you have 49, 50, or 51  
 24 percent, you will see some abnormality on the fetal  
 25 monitor tracing. No one has, to my knowledge, even

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1 opine that the abruption starts?  
 2 A I'm not saying with a degree of certainty that that  
 3 is when it occurred.  
 4 I'm saying that is the first time you see evidence  
 5 of it, but --  
 6 MR. COLUMBO: I will also state that he told  
 7 you at least four times that there is no way he can tell  
 8 precisely when it started.  
 9 A I don't think I understand your question.  
 10 Q Could the abruption have started at 6:49 p.m.?  
 11 A Sure.  
 12 Q Could it have started at 6:00 o'clock?  
 13 A Yes.  
 14 Q Could it have started at 5:00 o'clock?  
 15 A Yes.  
 16 Q Could it have started at 4:00 o'clock?  
 17 A Yes.  
 18 Q Could it have started the previous day?  
 19 A Well, I think that it's possible, but I think that  
 20 that is unlikely.  
 21 Certainly, people do have small retroplacental  
 22 bleeds that occur all throughout pregnancy and the  
 23 bleeding sometimes stops and the bleeding gets reabsorbed --  
 24 these are small abruptions -- but I think once the patient  
 25 is into the process of labor and you have got

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1 attempted to make that correlation.  
 2 Q You are not discounting the effectiveness of fetal  
 3 heart monitoring? You think it is a good thing; correct?  
 4 A Absolutely.  
 5 Q You think that it can detect problems with the fetus  
 6 and the placenta; isn't that right?  
 7 A Yes.  
 8 Q You think that the intervention of cesarean section  
 9 can prevent brain damage?  
 10 A No.  
 11 Q You don't believe that?  
 12 A In the face of -- what?  
 13 Q Well, had a cesarean section been done here, I mean,  
 14 to the extent that the abruption occurred at 6:52 p.m. --  
 15 MR. COLUMBO: Wait a minute. Wait a minute.  
 16 You are asking him to assume that it did?  
 17 MR. COHEN: No.  
 18 A I'm not saying that it did. If that's the way you  
 19 understood my answer, then I expressed myself poorly.  
 20 What I said is: In retrospect, looking back through  
 21 the chart, that's the first time that I see signs that  
 22 there is something wrong, at 6:52, so I'm saying that may  
 23 have been when it occurred. It may have occurred earlier,  
 24 it may have occurred later. It is really hard to pinpoint  
 25 when it started.

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1 Q Do you see the problems at 6:52 reflected on the  
2 fetal heart monitor?  
3 A Okay, 6:52 --  
4 MR. COLUMBO: Off the record.  
5 (Discussion off the record.)  
6 A On the fetal heart monitor at 6:52 there is no  
7 tracing, whatsoever. There is a note -- "fetal heart  
8 tones down, Dr. Mupas here" -- but there is no fetal  
9 heartbeat recorded, whatsoever, at that particular time on  
10 the fetal monitor tracing.  
11 The nurses were listening -- and that's an auditory  
12 count.  
13 Q Do you intend to testify at trial that C-section  
14 intervention could not have avoided brain damage in this  
15 case?  
16 MR. COLUMBO: I am going to object to the  
17 form of the question.  
18 At what time, for what reason? Is it possible? I  
19 think the question is very vague, so I object to the form  
20 of the question.  
21 BY MR. COHEN:  
22 Q Do you intend to testify on that subject at trial?  
23 MR. COLUMBO: On what subject?  
24 MR. COHEN: The subject that a C-section  
25 intervention could not have avoided brain damage.

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1 MR. COLUMBO: At what time?  
2 MR. COHEN: At any time.  
3 MR. COLUMBO: At any time, okay.  
4 A If asked, yes, I will.  
5 Q You will?  
6 A If asked.  
7 Q What is your opinion about that?  
8 A Well, again, I think that, certainly, it could have,  
9 that it depends upon what time you are talking about. If  
10 you did a C-section a week before, sure, you have  
11 completely circumvented abruption, the baby should have  
12 done fine. If you did the C-section at noon, probably the  
13 baby would have been fine. So, yes, an intervention by  
14 C-section could probably have prevented this from  
15 happening.  
16 Q What if you did the C-section at 5:00 o'clock?  
17 A I think if you did the C-section at 5:00 o'clock --  
18 MR. COLUMBO: Are we understanding that you  
19 are not asking him whether it was indicated?  
20 MR. COHEN: I want to know what he is going  
21 to testify to at trial.  
22 MR. COLUMBO: Well, that's fine, but you are  
23 asking him very vague questions.  
24 MR. COHEN: He gave me a very vague answer as  
25 to what he is going to testify to at trial.

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1 MR. COLUMBO: Well, what I anticipate asking  
2 him is whether, number one, the C-section was indicated  
3 any earlier than it was --  
4 MR. COHEN: Well, we are going to talk about  
5 whether a C-section was indicated.  
6 MR. COLUMBO: Okay.  
7 I want to make sure the question is clear. You are  
8 not asking him about indications for a C-section. Just  
9 whether or not a section would have been done at a  
10 particular point in time, whether it would have avoided  
11 brain damage?  
12 MR. COHEN: Right.  
13 MR. COLUMBO: Okay.  
14 BY MR. COHEN:  
15 Q Inasmuch as you don't know when brain damage  
16 began -- you really can't answer that question; can you?  
17 A Well, no, I don't think that's true.  
18 I think that the brain damage began sometime after  
19 the abruption. I think that the abruption caused the  
20 brain damage. The abruption did not occur --  
21 Q I thought you told me that you couldn't tell us when  
22 the abruption occurred.  
23 A I can't --  
24 MR. COLUMBO: Wait.  
25 Let me object. He has told you four or five times

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1 that the abruption is what started the brain damage.  
2 Exactly when brain damage began, the minute, he can't tell  
3 you.  
4 MR. COHEN: Okay.  
5 A I can tell you, though, the year, I can tell you the  
6 month, I can tell you the week, I think I can tell you the  
7 day, which is 9-22.  
8 Q Okay.  
9 A It is not that I can't say when it occurred. I just  
10 can't pick the minute.  
11 Q Do you believe that the brain damage occurred at the  
12 commencement of the abruption?  
13 A No.  
14 Q There is a process that goes on where, as the baby  
15 gets less and less nourishment, the brain damage first  
16 occurs and then intensifies; is that correct?  
17 A That's correct, but it is not, simply, less  
18 oxygenation, as you are talking about. The shock  
19 component has a great deal to do with it, too.  
20 Q Do you intend to testify about that at trial?  
21 A If asked, yes.  
22 MR. COHEN: Counsel --  
23 MR. COLUMBO: About what?  
24 MR. COHEN: About about how this witness  
25 believes that brain damage is caused by things other than

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1 lack of oxygenation to the brain.

2 MR. COLUMBO: Yes, we may. We may want to  
3 inquire, in a general sense and from an obstetrical sense.  
4 I am, certainly, not going to ask him questions that would  
5 be better suited for a pediatric neurologist, but,  
6 obviously, depending on how the case is going and what the  
7 evidence has been up to that point, from his point of  
8 view, he may --

9 MR. COHEN: Wait a minute.

10 You, certainly, know all of the evidence that could  
11 come in through the plaintiffs' expert witnesses.

12 MR. COLUMBO: I understand.

13 What I'm saying is he is not going to testify about  
14 the minute brain damage occurred. Okay? That's not his  
15 testimony, that's not his expertise. He may, and I don't  
16 want to foreclose it, and that's why I want you to know  
17 that we may ask him just from his point of view about what  
18 goes into brain damage, is it just hypoxia or are there  
19 other factors, a general type question like that.

20 MR. COHEN: All right.

21 BY MR. COHEN:

22 Q Doctor, would you agree that that subject is within  
23 the province of a pediatric neurologist as opposed to an  
24 obstetrician?

25 A No.

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1 I don't know if this is in the CV or not, but I have  
2 a great deal of experience and additional education in the  
3 treatment of critical care medicine in shock states, I am  
4 certified --

5 Q Other than testifying --

6 MR. COLUMBO: Wait a minute. Let him answer  
7 the question.

8 A I'm just trying to say this so you will understand  
9 where I'm coming from and this won't take too many more  
10 hours. I am just trying to explain what my point of view  
11 is.

12 Q Okay.

13 A A great deal of my education, expertise, and  
14 experience comes from education in critical care medicine.  
15 I have a great deal of experience in dealing with people  
16 who are very, very sick, in shock states from lack of  
17 oxygenation of the brain and other organs, from lack of  
18 oxygenation and all forms of shock states. I am certified  
19 and recertified by the American Heart Association in basic  
20 and advanced cardiac life support systems, which includes  
21 brain resuscitation. I have a great deal of experience in  
22 this area, and that's my point of view.

23 Q Where do you engage in the medical practice of brain  
24 resuscitation?

25 A At the present time I do not.

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1 Q When is the last time you did?

2 A I would say not within the last two years.

3 Q When is the last time you engaged in the medical  
4 practice of brain resuscitation?

5 A Between two and three years ago.

6 Q Where?

7 A Magee Women's Hospital Intensive Care Unit.

8 Q How did you engage in the practice? What was your  
9 role in the medical practice of brain resuscitation versus  
10 that of pediatricians?

11 A By restoring circulation to the brain.

12 Q You would work on infants, newborns?

13 A This was an adult.

14 Q All right.

15 When was the last time you worked on pediatric brain  
16 resuscitation?

17 A I have the education and have passed the test but do  
18 not do that.

19 Q Have you ever done it?

20 A Yes, but not in recent years.

21 Q When is the last time that you engaged in the  
22 medical practice of pediatric brain resuscitation?

23 A In the 1970's, not since 1980.

24 Q Where?

25 A At Mercy Hospital.

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1 Q In what capacity?

2 A In the neonatal intensive care unit and in the  
3 delivery room.

4 Q Isn't that the job of a pediatrician?

5 A It is the job of a neonatologist, but if there is  
6 no neonatologist available, then the most qualified person  
7 does that. As I said, I have the credentials to do that.

8 Q All right.

9 MR. COHEN: Can we take a break?

10 MR. COLUMBO: Yes.

11 (Brief break.)

12 BY MR. COHEN:

13 Q Doctor, I want to go over your background as an  
14 expert witness.

15 How many cases have you reviewed over the course of  
16 the past three years, medical malpractice cases?

17 A I would guess twelve to fifteen.

18 Q Over the past three years?

19 A Uh-huh.

20 MR. COLUMBO: You have to say "yes."

21 A Yes.

22 I'm sorry.

23 That's three or four a year; right?

24 Q Yes.

25 How many of those have been for the plaintiff?

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1 MR. STUHR: Harry, can you speak up a little?  
 2 BY MR. COHEN:  
 3 Q How many of those have been on behalf of a patient?  
 4 A I would say about a third.  
 5 Q Have you testified on behalf of patients in any  
 6 cases that have been filed in Allegheny County?  
 7 A Not that I can remember.  
 8 Q Geographically speaking, what is the closest to  
 9 Allegheny County you have ever testified on behalf of a  
 10 patient?  
 11 A Cambria County. *1412-391-3477*  
 12 Q Who was the lawyer that you testified for?  
 13 A It was not a testimony. The case settled. It was  
 14 an opinion. It was Regis McClelland from Harrington and  
 15 Schweers, and the case settled, I did not go to testify.  
 16 Q What was the case about?  
 17 A It was a prolapsed cord that had occurred in a  
 18 hospital in either Johnstown or Altoona with a physician  
 19 who was unavailable.  
 20 Q What was the negligence in that case?  
 21 A The negligence in it was twofold on the part of the  
 22 hospital, they caused the prolapsed cord by having the  
 23 woman stand up. The woman presented with a breech  
 24 presentation that was unengaged and ruptured membranes,  
 25 cervix open, one of the nurses got her up to go to the

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1 bathroom, which she shouldn't have done, the cord fell  
 2 out, the cord prolapsed, the doctor was totally  
 3 unavailable, and in spite of all sorts of efforts to reach  
 4 him, they were unable to get ahold of him and had to find  
 5 a substitute to come in.  
 6 Q What intervention, according to your opinion in that  
 7 case, could have avoided injury?  
 8 A Not getting the woman out of bed, keeping her on bed  
 9 rest.  
 10 Q Did the child suffer an asphyxial insult in that  
 11 case?  
 12 A Yes.  
 13 Q Did the asphyxial insult cause brain damage or  
 14 death?  
 15 A Yes.  
 16 Q Was it your opinion that an earlier C-section could  
 17 have prevented that?  
 18 A Yes.  
 19 Q What year was that --  
 20 MR. COLUMBO: His involvement or the --  
 21 BY MR. COHEN:  
 22 Q -- that you wrote that opinion?  
 23 A Within the last three years, I would say.  
 24 That's what you are asking about; right?  
 25 Q Right.

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1 In that case how would a cesarean section have  
 2 avoided brain damage?  
 3 A When a prolapsed cord occurs, the umbilical cord  
 4 falls through the cervix and as the baby comes down, it  
 5 compresses the umbilical cord so that no blood flows  
 6 through to the infant. The appropriate treatment would  
 7 have been to prevent it from happening, but once it had  
 8 occurred, the appropriate treatment is to hold the baby up  
 9 off of the umbilical cord, so that it doesn't compress the  
 10 umbilical cord by hand and then do a cesarean section and  
 11 remove the baby before umbilical cord compression occurs.  
 12 Q Have you testified in other cases that an earlier  
 13 cesarean section intervention would have avoided brain  
 14 damage?  
 15 MR. COLUMBO: In the last three years?  
 16 MR. COHEN: Ever.  
 17 A The other case is a death, fetal death, and then  
 18 there is another that's a maternal death.  
 19 You are talking about plaintiffs' cases?  
 20 Q That is right.  
 21 A In the fetal death, the baby was not -- everything  
 22 was dead, it wasn't just brain dead, it was a complete  
 23 fetal death.  
 24 Q You have talked about three cases.  
 25 Have you only testified in three cases for the

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1 patient?  
 2 A No.  
 3 You had just asked about -- I thought you were  
 4 talking about brain damage and death. *FAV*  
 5 Q Yes.  
 6 A No, those aren't testimonies yet. Those are cases  
 7 that I have written opinions on and will be testifying in  
 8 soon. *1412-471-6897*  
 9 Q Who are the lawyers in those cases?  
 10 A The maternal death is Talarico, and he is in Western  
 11 Pennsylvania in a county north of here, maybe Mercer.  
 12 Joe Talarico is his name. *814-*  
 13 The fetal death is Andrew Sissini, who is in Erie  
 14 County. I also testified for Mr. Sissini's client, who  
 15 was a plaintiff last -- well, I guess, two years ago in a  
 16 case that was a postpartum neuropathy that had occurred to  
 17 the mother after delivery.  
 18 Q What was Mr. Talarico's case about?  
 19 A Mr. Talarico's case is a maternal death.  
 20 Essentially, a patient was admitted to a hospital --  
 21 Q I am not interested in that.  
 22 A Okay.  
 23 Q Have you told me now about all of the cases  
 24 involving fetal death or brain damage where you have  
 25 offered opinions on behalf of the patient?

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1 MR. COLUMBO: In the last three years?

2 MR. COHEN: Ever.

3 A Ever?

4 Q Yes.

5 A Well, there have been others. Let me think about  
6 it.

7 (Brief pause.)

8 A Those, I would say, are the only ones that I can  
9 remember, but I think there have been a couple others, but  
10 not recently.

11 Q Why is it you have never testified or offered an  
12 opinion on behalf of a patient in Allegheny County?

13 A I have rarely been asked.

14 Q Is that the only reason?

15 A Yes.

16 I, certainly, would be willing to testify in  
17 Allegheny County. I mean, I am testifying in all of the  
18 counties around Allegheny.

19 Q What are your charges to serve as an expert witness?

20 A \$250 an hour to review the case, \$250 for the  
21 deposition, with a minimum of \$500, and a minimum of  
22 \$1,000, plus traveling time, to come to trial.

23 Q Can you characterize, generally, when an obstetrical  
24 nurse should move a patient, reposition a patient, or give  
25 a patient oxygen in response to a fetal monitor pattern?

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1 MR. COLUMBO: Just generally?

2 MR. COHEN: Yes.

3 MR. COLUMBO: Well, let me just object to the  
4 form of the question because I think it's vague. If the  
5 Doctor can answer it, he can go ahead.

6 If you need more specificity, just ask Mr. Cohen.

7 A I think that's too hard to answer in general.

8 Q Well, would you agree that if an obstetrical nurse  
9 sees a non-reassuring fetal heart pattern, that she should  
10 at least reposition the patient?

11 A Yes.

12 Q If that doesn't work, should she, or he, give the  
13 patient oxygen?

14 A Yes, and IV fluids.

15 Q When, if there is a priority, should the obstetrical  
16 nurse call the obstetrician in response to a  
17 non-reassuring fetal heart pattern?

18 A Well, I think as soon as she recognizes it as a  
19 non-reassuring fetal heart pattern.

20 Q Concurrent with her repositioning the patient and  
21 giving IV fluids?

22 A Well, it would depend upon the circumstances.

23 If the doctor is in the next room, you know, or  
24 close by, immediately available, I think it would be  
25 perfectly appropriate to try to do intrauterine

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1 resuscitation, which is what we are calling the things  
2 that you are doing -- repositioning the patient, IV  
3 fluids, oxygen -- without notifying the doctor. If the  
4 doctor is half an hour away, then I think he ought to be  
5 notified, you know, immediately upon the appearance of the  
6 pattern.

7 We have this happen all the time at Magee, where the  
8 nurse will call us and say, you know, "Mrs. Jones has a  
9 non-reassuring pattern, I would like you to come and look  
10 at it. I've repositioned her, I've given her IV fluids,  
11 I've got her on oxygen, and it hasn't changed."

12 Q I am not understanding the difference in the nursing  
13 obligation for situations where the obstetrician is in the  
14 hospital versus situations where the obstetrician is, say,  
15 a half-hour away.

16 A Well, a non-reassuring pattern does not correlate  
17 well with fetal distress. Non-reassuring pattern and  
18 fetal distress are two very different things. Once  
19 someone has a non-reassuring pattern, the baby may be  
20 perfectly fine, they may have a perfectly normal newborn,  
21 or you may have a newborn who has problems. The presence  
22 of a non-reassuring pattern is not evidence of fetal  
23 distress and doesn't correlate well with fetal distress,  
24 and, certainly, doesn't correlate well with neonatal brain  
25 injury.

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1 The reason to notify at all is that a non-reassuring  
2 pattern can become an ominous pattern, if there is some  
3 underlying pathological process, so if the doctor is close  
4 by and can react to the ominous pattern, if the  
5 non-reassuring pattern doesn't resolve, there is no reason  
6 to let him know prior to doing the normal things that they  
7 do, because they usually work. The vast majority of times  
8 when people have non-reassuring patterns and you give them  
9 fluids and change their position, their non-reassuring  
10 pattern goes away, oxygen is rarely needed. Usually just  
11 fluids or changing the position.

12 Now, as I say, if the doctor is at home, thirty  
13 minutes away or so, you want to let him know that there is  
14 a reassuring (sic) pattern so he can come in and be ready  
15 in case it doesn't go away.

16 MR. DITMAR: You said, "reassuring."

17 MR. COLUMBO: You said, "reassuring." You  
18 meant non-reassuring?

19 THE DEPONENT: Yes.

20 A You want to let him know that there was a  
21 non-reassuring pattern so he can come in and be available  
22 in case things go bad, things go sour, but if he is in the  
23 next room, he is prepared to react. If he is across the  
24 hall, in his office, close by, he is prepared to react.

25 Q You said that a non-reassuring pattern is not

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1 evidence of fetal distress?  
 2 A Absolutely not. Yes.  
 3 Q What is evidence of fetal distress as reflected on a  
 4 fetal heart monitor?  
 5 A There is no real clear-cut way to make a diagnosis  
 6 of fetal distress on a fetal monitor.  
 7 Go ahead.  
 8 Q To the extent there is fetal distress, the only way  
 9 to know that is through a fetal heart monitor; isn't that  
 10 true?  
 11 A Absolutely not.  
 12 In the case that I had talked to you about before,  
 13 the prolapsed cord, if you see the cord hanging out of the  
 14 woman's body, do you need a fetal monitor to tell you it's  
 15 in fetal distress? Obviously not.  
 16 There are plenty of ways to tell if there is  
 17 distress without using a fetal monitor, plenty of  
 18 conditions.  
 19 Q Tell me what they are.  
 20 A I mean, there's an infinite number. A gunshot wound  
 21 to the pregnant uterus, a stab wound to the pregnant  
 22 uterus.  
 23 Q A gunshot wound, a stab wound --  
 24 A I said there is an infinite number. If you want to  
 25 know all of them, I can't list them all.

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1 Q Excepting trauma and bleeding, can you tell me how  
 2 else you can diagnose or suspect fetal distress?  
 3 MR. COLUMBO: Wait a minute.  
 4 I want to make sure the question is clear, because  
 5 you had two questions. I don't think he is saying you can  
 6 diagnose fetal distress by the heart monitor.  
 7 You asked him how else can you diagnose fetal  
 8 distress aside from the heart monitor?  
 9 MR. COHEN: Yes.  
 10 MR. COLUMBO: He has already told you that  
 11 you can't diagnose fetal distress with a heart monitor.  
 12 BY MR. COHEN:  
 13 Q Is that your testimony; you cannot diagnose fetal  
 14 distress with a heart monitor?  
 15 A Fetal heart monitors are not reliable ways to  
 16 determine fetal distress alone.  
 17 Q Well, those are two different statements.  
 18 Can you diagnose fetal distress with a fetal heart  
 19 monitor?  
 20 A Only in combination with the whole clinical picture.  
 21 Q The fetal heart monitor plus -- what -- would enable  
 22 you to diagnose fetal distress?  
 23 A The entire clinical picture.  
 24 You were asking for examples earlier and I gave it,  
 25 then you excluded trauma and bleeding.

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1 Q Right.  
 2 A Let's talk about some other things.  
 3 Conditions such as toxemia, when someone has  
 4 eclampsia, preeclampsia, florid toxemia, an obviously  
 5 dangerous, but relatively common obstetrical complication,  
 6 which taking that clinical picture in conjunction with the  
 7 fetal monitor --  
 8 Q Are there -- I'm sorry to interrupt you. Go ahead.  
 9 A That's good. You've got the idea.  
 10 Q I am trying to hurry this up here.  
 11 A Okay. Go ahead. So an I.  
 12 Q Okay.  
 13 Are there circumstances where there are fetal  
 14 distress absent trauma, absent bleeding, absent maternal  
 15 problems that can be diagnosed through the fetal monitor?  
 16 A Sure.  
 17 Q So you can --  
 18 A I'm sorry. Through the fetal monitor?  
 19 Q Yes.  
 20 A Could you repeat that question?  
 21 Q Absent trauma, absent bleeding, absent maternal  
 22 problems, are there circumstances where you can diagnose  
 23 fetal distress through a fetal heart monitor?  
 24 MR. COLUMBO: You are saying conclusively  
 25 diagnose it, say, yes, that is an infant that has fetal

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1 distress?  
 2 MR. COHEN: If he doesn't know what diagnose  
 3 means, he can tell me.  
 4 MR. COLUMBO: I object to the form of the  
 5 question.  
 6 If you can answer it, go ahead. If you can't, tell  
 7 him.  
 8 A The question, as I understand it, is: Are there  
 9 certain purely fetal conditions of distress which can be  
 10 diagnosed by a fetal monitor --  
 11 Q Yes.  
 12 A -- without anything else?  
 13 Q Yes.  
 14 A There may be, but I can't think of any -- well, I  
 15 can think of one.  
 16 Q Go ahead.  
 17 A I can think of more than one.  
 18 A third degree heart block which results in  
 19 congestive heart failure.  
 20 Q In the mother?  
 21 A No.  
 22 In the fetus.  
 23 Q How is that diagnosed?  
 24 A You can diagnose that with a fetal monitor on the  
 25 basis of the fact that you get a very low heart rate, you

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1 attach it to the electrocardiogram and you see a third  
2 degree heart block.  
3 Q If a physician sees continuous ominous fetal heart  
4 tones that are not resolved by conservative measures, is a  
5 cesarean section indicated?  
6 A Yes.  
7 Q Why?  
8 A Because there may be fetal distress. Not every time  
9 when a cesarean section is done in the face of persistent  
10 late decelerations will there be a distressed fetus.  
11 That's why fetal distress doesn't correlate with  
12 non-reassuring patterns that frequently --  
13 Q But because --  
14 MR. COLUMBO: Wait a minute. Wait a minute.  
15 A Frequently when you have got a non-reassuring  
16 pattern, the fetus is not in distress.  
17 Q That's no reason to not perform a cesarean section?  
18 A That's correct.  
19 Q There are circumstances where performing a cesarean  
20 section prevents brain damage?  
21 A Yes. They are rare, but they occur. The example I  
22 gave you, the prolapsed cord, is a good one.  
23 Again, I think if this woman had had a C-section two  
24 weeks earlier, this baby would have done well.  
25 Q What was the indication for a cesarean section in

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1 non-reassuring? If it has to be more than one minute, how  
2 long does it have to be?  
3 A I would say a non-reassuring pattern that persists  
4 for three minutes and does not respond to conservative  
5 measures would be an indication.  
6 Q Is it your opinion that there was no three-minute  
7 strip here which would be non-reassuring?  
8 MR. COLUMBO: Until?  
9 MR. COHEN: Until around 6:30 p.m.  
10 MR. COLUMBO: Well, let's be a little bit  
11 more specific.  
12 THE DEPONENT: Let me go back. Maybe I  
13 didn't understand the previous question.  
14 Could you read the previous question? Is that  
15 possible?  
16 MR. COHEN: Go ahead.  
17 (Record read.)  
18 A That's just the question; to call it non-reassuring?  
19 Q Yes.  
20 A Then the answer is what I gave you.  
21 Q You have to see three minutes of the pattern to say  
22 it's non-reassuring?  
23 A Well, it depends on the pattern, but I think on the  
24 whole that would be true. I think there is a sinusoidal  
25 pattern which you probably need to see longer than that

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1 this case?  
2 A The indication for the cesarean section was that  
3 initially they lost the fetal heart tones and they had  
4 prolonged severe bradycardia, an ominous pattern.  
5 Q You have reviewed the fetal monitor strip for Karen  
6 Konnovitch?  
7 A Yes, I have.  
8 Q Were any portions of it non-reassuring?  
9 A Yes.  
10 Q I would like you to begin at 12:00 o'clock and find  
11 the first portion that was non-reassuring.  
12 MR. COLUMBO: Are we -- wait a minute.  
13 MR. COHEN: 12:00 noon.  
14 MR. COLUMBO: Why don't you ask him a  
15 different question which might shorten this up? You may  
16 want to ask him if the only non-reassuring part of the  
17 strip was what we identified previously.  
18 BY MR. COHEN:  
19 Q Is that your opinion?  
20 A Yes. I don't think that it's fair to take a look at  
21 one minute of strip and say that's non-reassuring. I  
22 think you have to look at a larger picture.  
23 The tracing becomes non-reassuring in that point  
24 that I circled at the beginning of this.  
25 Q How long a strip must you look at to say it's

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1 before you would call it reassuring.  
2 Q How many minutes of a pattern do you need to see to  
3 say it's reassuring?  
4 A Well, again, I define the reassuring pattern as a  
5 normal tracing, the absence of non-reassuring. I would  
6 say that three minutes of a tracing that is reassuring is  
7 reassuring for that period of time, but it can become  
8 non-reassuring later.  
9 Q I don't understand.  
10 Can you tell me how many minutes of a pattern you  
11 can look at to say this is a reassuring pattern?  
12 A Only in the context of the whole tracing --  
13 Q You need the whole tracing to say it's reassuring?  
14 A -- and to say it's non-reassuring. These things all  
15 occur only in the context of the whole tracing.  
16 I think with three minutes of a non-reassuring  
17 tracing, and then subsequently not responding, that would  
18 be indication that the tracing is non-reassuring, yes.  
19 Q Now, is there any three-minute period of time where  
20 you see a non-reassuring pattern between, say, 12:00 noon  
21 and 6:00 o'clock p.m.?  
22 A No.  
23 Q Do you see any late decelerations between that time?  
24 MR. COLUMBO: Between noon and 6:00?  
25 MR. COHEN: Yes.

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1 A I don't remember any. There may be an isolated late  
2 deceleration somewhere, but I don't remember it.  
3 Q I am going to ask you just to -- we are going to go  
4 through this. I am going to ask you to tell me all of the  
5 late decelerations. You have already been through the  
6 strip, I presume?  
7 A Yes.  
8 Q You know that that is an issue in this case; don't  
9 you?  
10 A Yes, from reading your cross-examination of  
11 Dr. Chinakarn.  
12 Q Tell me all of the late decelerations that you have  
13 identified in this strip.  
14 MR. STUHR: What was that last question?  
15 MR. COLUMBO: He asked him if he was aware  
16 that the issue of late decelerations is an issue in this  
17 case, and the Doctor said yes, based upon his  
18 cross-examination of Dr. Chinakarn. Now he is asking him  
19 to identify all late decelerations between noon and 6:00  
20 p.m.  
21 Is that correct, Harry?  
22 MR. COHEN: Right.  
23 MR. STUHR: Okay.  
24 BY MR. COHEN:  
25 Q Maybe we can do it this way --

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1 MR. COLUMBO: That's a long period of time,  
2 obviously.  
3 Also, maybe just to shorten this up, even the  
4 plaintiffs' experts don't call anything late until after  
5 3:10 p.m.  
6 A Okay.  
7 Q Will you turn to panel 68674?  
8 A I've got it.  
9 Q Do you see a late deceleration there?  
10 A No.  
11 Q How would you describe that pattern?  
12 A A mild variable deceleration of no clinical  
13 significance.  
14 Q Is there a late component?  
15 A No.  
16 Q 68675, do you see a late deceleration?  
17 A No.  
18 Q How would you characterize that pattern?  
19 A Normal variability -- 68675?  
20 Q Yes.  
21 A Yes, normal variability.  
22 Q 68676, do you see a late deceleration?  
23 A No.  
24 Normal variability.  
25 Q When you say "normal variability," would that also

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1 Include a variable deceleration?  
2 A No.  
3 Q Panel 68678, do you see a variable or late  
4 deceleration?  
5 A Variable deceleration.  
6 MR. STUHR: What panel?  
7 THE DEPONENT: 68678, variable deceleration.  
8 BY MR. COHEN:  
9 Q With a late component?  
10 A No.  
11 Q 68679, do you see a late deceleration?  
12 A No.  
13 Q Do you see a variable deceleration?  
14 A No.  
15 Q 68680, do you see a late deceleration?  
16 A No.  
17 Q Do you see a variable deceleration?  
18 A No.  
19 Q 68681, do you see a late deceleration?  
20 A No.  
21 Q Do you see a variable deceleration?  
22 A No.  
23 Q 68683, do you see a variable deceleration?  
24 A Yes.  
25 Q With a late component?

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1 A No.  
2 Q 68684, do you see a late deceleration?  
3 A No.  
4 Q Do you see a variable deceleration?  
5 A It's impossible to tell what that is -- 68684?  
6 Q Yes.  
7 A There is no way to tell. I think there is a  
8 deceleration there, it's probably a variable deceleration,  
9 just looking at the wave form, but there is not enough --  
10 you can't see the deceleration.  
11 Q Is there enough to suspect a late deceleration?  
12 A No.  
13 Q Do you suspect a variable deceleration?  
14 A Yes.  
15 Q With a late component?  
16 A No.  
17 Q 68685, do you see a variable or late deceleration  
18 there?  
19 A Yes. Variable deceleration.  
20 Q With a late component?  
21 A No.  
22 Q 68686, do you see a late deceleration or a variable  
23 deceleration?  
24 A No -- 68686?  
25 Q Yes, sir.

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1 A No.  
2 MR. DIITMAR: Did he see a variable?  
3 THE DEPONENT: No.  
4 BY MR. COHEN:  
5 Q Not variable and not late?  
6 A No.  
7 Q 68687, do you see a variable or late deceleration?  
8 A No.  
9 Q 68689, do you see a variable or late deceleration?  
10 A No.  
11 I see a changing baseline.  
12 Q 68691, do you see a variable or a late deceleration?  
13 A No.  
14 Q 68692, do you see a variable or late deceleration?  
15 A No.  
16 Q 68695, do you see a variable or a late deceleration?  
17 A 68695?  
18 Q Yes.  
19 A No.  
20 Q 68712, do you see a variable or late deceleration?  
21 MR. COLUMBO: What?  
22 MR. COHEN: 68712.  
23 A I see a variable before that.  
24 Q Where?  
25 A 68 --

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1 MR. COLUMBO: Wait a minute. 712?  
2 MR. COHEN: Yes.  
3 A 68704.  
4 MR. COLUMBO: That's what I am asking. You  
5 are saying "712." I think you are misstating the number,  
6 because I don't think there is a 712.  
7 MR. DIITMAR: There is. 68712 (indicating).  
8 BY MR. COHEN:  
9 Q When you say 68704, what do you see?  
10 A A variable deceleration.  
11 Q Is there a late component?  
12 A No.  
13 MR. COLUMBO: 68712? The strip runs out at  
14 706.  
15 BY MR. COHEN:  
16 Q 68712?  
17 MR. COLUMBO: Where?  
18 MR. COHEN: Do you have a 68712?  
19 MR. DIITMAR: Yes.  
20 THE DEPONENT: I've got a 68712.  
21 MR. COLUMBO: All right. I am having a brain  
22 cramp here. I'm sorry. I am with you now.  
23 A It's impossible to tell what happened here. I think  
24 maybe there was a variable deceleration because you have  
25 got a change in the baseline and then you have got some

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1 fetal heart tones recording down here around 90, but the  
2 amount of time that it records is just a few seconds, so  
3 there may have been a variable there, but whatever it was  
4 came back very quickly to baseline.  
5 MR. STUHR: You are talking about 68712 now?  
6 THE DEPONENT: 68712.  
7 BY MR. COHEN:  
8 Q It may be a variable, it may be nothing?  
9 A That's right.  
10 Q Is there a late component?  
11 A No.  
12 Q 68713, do you see a variable or late deceleration?  
13 A Yes.  
14 Q What is it?  
15 A A prolonged variable deceleration.  
16 Q Is there a late component?  
17 A No.  
18 Q 68714 and 68715, do you see variable or late  
19 decelerations?  
20 A A prolonged variable deceleration.  
21 Q Is there a late component?  
22 A Yes, I would say there is.  
23 Q Is that a non-reassuring fetal heart pattern?  
24 MR. COLUMBO: Wait a minute. Where?  
25 MR. COHEN: 68714 and 68715.

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1 A Yes.  
2 Q Okay.  
3 A For three minutes. What's reassuring about that is  
4 the same things that I mentioned in regard to that other  
5 deceleration we discussed earlier. It's a variable  
6 deceleration, you have got good variability all through  
7 the bottom of it, it's not a flat line down there, you  
8 have got good variability through the bottom. By the late  
9 component, I mean the slow return back to baseline. You  
10 have got a slower return back to baseline. What's  
11 reassuring about this is once it gets back to baseline,  
12 the variability returns, and it is not followed by a  
13 tachycardia, so while it is non-reassuring for three  
14 minutes, after that it becomes reassuring again.  
15 Q Where does it become reassuring? I want you to  
16 circle where it becomes reassuring.  
17 A It becomes reassuring as --  
18 Q In fact, put an "X" where it becomes reassuring.  
19 A I can't. It's the way I viewed the entire  
20 deceleration and the period of the tracing after the  
21 deceleration. Looking at the deceleration and the period  
22 after that would cause me not to be concerned about it.  
23 Q When I first asked you the question you said it's  
24 non-reassuring --  
25 A Correct.

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1 Q -- and the same thing that you looked at and said is  
2 non-reassuring is reassuring?  
3 A In the context of the tracing, yes. I'm sorry. I  
4 guess I'm not making myself clear.  
5 What I'm trying to say is that looking at isolated  
6 areas of the tracing is not a valid way to look at it.  
7 Q After this section of the strip that you say is  
8 reassuring and non-reassuring, when is the next time that  
9 you can read any tracing?  
10 MR. COLUMBO: I am going to object.  
11 Have we not gone over -- because we looked backwards  
12 initially.  
13 MR. COHEN: We didn't go this far, though.  
14 MR. COLUMBO: Yes, we did.  
15 THE DEPONENT: I thought we did, too.  
16 A Say it again.  
17 Q When is the next time that you can even read this  
18 strip? You can't read it in 55681; right?  
19 A 55682 -- 55683, the first panel.  
20 Q That is reassuring?  
21 A Yes.  
22 Q Do you see a deceleration of any kind at 55682?  
23 A Yes.  
24 This is what we discussed before. This is an early  
25 deceleration from head compression.

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1 Q It's an early deceleration?  
2 A Right.  
3 Q It is not a late deceleration?  
4 A Right.  
5 Q Is that right, it is not a late deceleration?  
6 A Well, yes. It doesn't meet the criteria. Number  
7 one, it begins early in the contraction, not middle or  
8 late in the contraction. Number two, it has got good  
9 variability at the nadir of the contraction and when it  
10 returns to baseline you have got good variability without  
11 a tachycardia again.  
12 Q It is not a variable deceleration with a late  
13 component?  
14 A No.  
15 It's head compression.  
16 Q Did you characterize the patterns at 55690 and 55691  
17 already?  
18 A Again, I think this is head compression. The  
19 patient is sitting up, sitting on the baby's head --  
20 MR. COLUMBO: Well, we just lost Rich.  
21 MR. COHEN: You didn't pay your phone bill.  
22 MR. COLUMBO: That might be.  
23 THE DEPONENT: Do you want to call him back?  
24 MR. COLUMBO: He will call back in a second.  
25 (Brief break.)

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1 BY MR. COHEN:  
2 Q Doctor, will you turn to panel 68685?  
3 A Okay.  
4 Q 68685?  
5 A I have it.  
6 Q You saw in Dr. Chinakarn's deposition that he called  
7 that a late deceleration; didn't you?  
8 A Yes.  
9 Q Does that tell us that Dr. Chinakarn is incapable of  
10 reading the monitor strip?  
11 A No, I don't think so.  
12 I think that there, certainly, can be different  
13 opinions, but I wouldn't agree with him on this particular  
14 deceleration, no. I don't think the fact that we don't  
15 agree about a single deceleration means that either one of  
16 us is incapable of reading the whole strip.  
17 Q Would you turn to 68714?  
18 A I've got it.  
19 Q Dr. Chinakarn called that a late deceleration.  
20 Could reasonable minds differ about whether or not  
21 this is a late deceleration?  
22 A Yes.  
23 Q Could reasonable minds differ about whether 68685 is  
24 a late deceleration?  
25 A That's the last one we looked at?

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1 Q Yes.  
2 A Yes.  
3 Q Looking at the chart at 68715 and 14, Mary Jordan  
4 testified that this is the type of tracing which should  
5 have prompted the nurses at Weirton Medical Center to call  
6 an obstetrician.  
7 Do you believe that testimony is wrong?  
8 A Yes.  
9 Q What does that tell you about Nurse Jordan's ability  
10 to read a fetal monitor strip?  
11 A Simply that we have a difference of opinion.  
12 Q Could reasonable minds differ about this?  
13 MR. COLUMBO: About what?  
14 MR. COHEN: About Nurse Jordan's opinion that  
15 strips 68714 and 68715 should have prompted the nurses at  
16 Weirton Medical Center to call an obstetrician.  
17 BY MR. COHEN:  
18 Q Could reasonable minds differ about the difference  
19 between your opinion and her opinion, or is she just flat  
20 out wrong?  
21 MR. COLUMBO: Wait a minute.  
22 Let me object to the form of the question inasmuch  
23 as -- are you saying that the standard of care required --  
24 I don't know. I don't remember the quote out of the  
25 deposition, and I am not so sure that she said that the

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1 standard of care required the nurses to contact the  
2 doctors.  
3 Anyway, let me object to the form of the question.  
4 I am not sure I understand the question.  
5 A Repeat the question, Harry. I'm sorry. I don't  
6 mean to keep having you repeat it.  
7 Q Mary Jordan testified that strips 68714 and 68715  
8 should have prompted the obstetrical nurses at Weirton  
9 Medical Center to discontinue pitocin -- this is a new  
10 question.  
11 MR. COLUMBO: That is a new question.  
12 BY MR. COHEN:  
13 Q Strips 68714 and 68715 should have prompted the  
14 nurses at Weirton Medical Center to discontinue pitocin.  
15 Do you disagree with that opinion?  
16 A Yes. Just based upon those two panels, yes.  
17 Q Now, could reasonable minds differ about how you  
18 interpret this panel, or is Nurse Jordan just flat out  
19 wrong?  
20 MR. COLUMBO: Wait a minute.  
21 Are you talking about interpreting the panel?  
22 THE DEPONENT: Yes, that was the question.  
23 MR. COHEN: Interpreting the appropriate  
24 response to the panel.  
25 MR. COLUMBO: In relation to pitocin?

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1 A Okay.  
2 Q Nurse Mary Jordan said that this panel reflects  
3 fetal bradycardia with a deceleration.  
4 You disagree with that interpretation?  
5 A Yes.  
6 Q Could reasonable minds differ about your  
7 interpretation and her interpretation?  
8 A I don't think so.  
9 Q So she is flat out wrong?  
10 A Yes.  
11 Q What does that tell us about her capability as an  
12 obstetrical nurse insofar as reading fetal monitors are  
13 concerned?  
14 MR. COLUMBO: With regard to the strip?  
15 MR. COHEN: Yes.  
16 A I think it tells me that she is probably very  
17 capable, that she errs on the side of being safe at all  
18 times, that whenever she sees something that she is not  
19 sure of, she calls it something bad and would call a  
20 doctor. If she doesn't know about it, she takes no  
21 chances.  
22 Q Can you imagine why she calls that fetal bradycardia  
23 with a deceleration?  
24 A No.  
25 Q You don't have a clue?

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1 MR. COHEN: Yes.  
2 A The question is: Could reasonable minds differ  
3 about the nursing response to this pattern?  
4 Q That is right.  
5 A Yes.  
6 Q Why would it be reasonable to shut off pitocin in  
7 the wake of this pattern?  
8 A Well, I don't think there is enough here that I  
9 would turn the pitocin off.  
10 Q I know you wouldn't.  
11 I am just asking: Why might reasonable minds shut  
12 off pitocin after a pattern like this?  
13 A Because she has got two contractions here, one that  
14 runs right into the other, and the thought would be that  
15 because she has two contractions too close together, that  
16 that may have caused the variable deceleration, and by  
17 turning the pitocin off, you can return the tracing to  
18 normal.  
19 (Brief pause.)  
20 BY MR. COHEN:  
21 Q Turn to panel 55690.  
22 A That is backwards from where we are or forward?  
23 MR. COLUMBO: Forward.  
24 BY MR. COHEN:  
25 Q Forward.

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1 A No.  
2 Q Yet you think that reflects good nursing skills, to  
3 call that something that you can't -- you don't even have  
4 an idea why she is labeling it that?  
5 A Yes, because she's erring on the side of safety.  
6 Q Well, if she is erring on the side of safety with  
7 absolutely no basis for it, doesn't that reflect  
8 incompetence?  
9 A I don't think, no. I don't think she has no basis  
10 for it. I think anybody who looks at that sees that that  
11 is not the way the rest of the tracing looks. It's  
12 something that is different than what it was before, so  
13 what she's saying, I think, is that when she sees the  
14 heart rate going down for whatever reason, she calls it  
15 something and she thinks the doctor ought to be called.  
16 Q Is that what you expect from your obstetrical  
17 nurses?  
18 A Well, at the beginning. I think at the beginning we  
19 always want them to err on the side of safety and if  
20 they're not sure, think that it's something bad and give  
21 us a call right away, but after they have done this for a  
22 while, these things aren't that difficult to read. They  
23 can read them very well.  
24 Q Who can read them very well?  
25 A The nurses.

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1 Q One of the nurses said that a late deceleration is  
 2 one that begins after the contraction. Did you see that?  
 3 A Well, no, but I will believe you. I will assume  
 4 that.  
 5 Q All right.  
 6 What does that tell us about that nurse's capacity  
 7 to read fetal monitor strips?  
 8 MR. COLUMBO: Let me object to the form of  
 9 the question in that there is very little, if any,  
 10 foundation for him to base an opinion on the entire  
 11 competency of a nurse based upon that hypothetical.  
 12 BY MR. COHEN:  
 13 Q If all you knew about the nurse was that in her  
 14 opinion, a late deceleration was one that started after a  
 15 contraction, what would be your opinion of that nurse's  
 16 competency?  
 17 MR. COLUMBO: If any.  
 18 A I would want to know more. I couldn't be able to  
 19 form an opinion based upon one statement like that.  
 20 Q Given that statement in her deposition, wouldn't it  
 21 be dangerous to have an obstetrical nurse who held that  
 22 opinion while watching your patients?  
 23 A If that was an opinion that she held and --  
 24 MR. STUHR: Well, note my objection, Harry.  
 25 At no time was Ms. Schreiner asked what she meant by

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1 after the contraction. There is no testimony with respect  
 2 to what she meant by that.  
 3 MR. COHEN: I am sure you are going to tell  
 4 her what she meant.  
 5 MR. STUHR: We don't know what she meant by  
 6 after the contraction.  
 7 BY MR. COHEN:  
 8 Q Well, assuming that she meant what my mother taught  
 9 me about the English language --  
 10 MR. DIITMAR: Just go ahead.  
 11 MR. STUHR: Well, the English language is  
 12 susceptible to many interpretations, and we don't know  
 13 what Nurse Schreiner meant by that statement.  
 14 MR. DIITMAR: Okay. Your objection is noted.  
 15 If the doctor can answer, let him answer.  
 16 A I need the question again, Harry.  
 17 Q Wouldn't it be dangerous to have an obstetrical  
 18 nurse watching your patients who was of the opinion that a  
 19 late deceleration was one that started after a  
 20 contraction?  
 21 A I think it would depend upon her whole contextual  
 22 understanding of labor, delivery, fetal monitoring and  
 23 pregnancy. I couldn't say that it would be dangerous  
 24 based upon one idea, no.  
 25 Q You wouldn't mind having a nurse watch your

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1 patients -- I want to be clear about this.  
 2 It would be acceptable to you if you had a nurse  
 3 watching your patients whose idea of a late deceleration  
 4 was one that started after a contraction?  
 5 MR. COLUMBO: Let me object to the form of  
 6 the question in that that's not what he just testified to.  
 7 MR. COHEN: Well, you have made your  
 8 objection.  
 9 BY MR. COHEN:  
 10 Q Answer the question, please.  
 11 A I couldn't answer the question because what I'm  
 12 saying is that I would need to know more about the nurse  
 13 other than one fact before I could judge her competency.  
 14 Q If you only knew that fact alone and it was her  
 15 responsibility -- strike that.  
 16 Isn't one of the responsibilities of obstetrical  
 17 nurses to call you when there are continuous late  
 18 decelerations?  
 19 A Yes.  
 20 Q If a nurse doesn't know what a late deceleration is,  
 21 she is not going to call you when there is continuous late  
 22 decelerations; isn't that right?  
 23 A Yes.  
 24 Q Wouldn't it be dangerous to have a such a nurse  
 25 watching your patients?

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1 A If a nurse does not know what late decelerations  
 2 are, continuous, late decelerations, it might be dangerous  
 3 or it might not, depending upon which side she erred. If  
 4 she erred on the side of safety, like this other person we  
 5 are talking about who calls whenever the heart rate goes  
 6 down, it wouldn't be dangerous at all. If it is someone  
 7 who is not going to call, then it would be dangerous.  
 8 There is really not enough information here to say  
 9 whether that concept is valid, I don't think.  
 10 Q Are continuous variable decelerations with a late  
 11 component non-reassuring patterns?  
 12 MR. STUHR: Objection.  
 13 Go ahead, Doctor.  
 14 Without further definition of what you mean by a  
 15 variable deceleration, I object.  
 16 A I thought you said continuous late decelerations.  
 17 I'm sorry. Say it again.  
 18 Q Continuous variable decelerations with a late  
 19 component, is that a non-reassuring pattern?  
 20 A Yes. It depends to some degree on the variable  
 21 decelerations.  
 22 As you know, ACOG doesn't consider all variable  
 23 decelerations significant. If it was a significant  
 24 variable deceleration with a late component, then the  
 25 answer would be yes.

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1 Q Under what circumstances would continuous variable  
2 decelerations with a late component not be a  
3 non-reassuring pattern?  
4 A If the variable decelerations are insignificant and  
5 quickly remedied and had an obvious explanation.  
6 Q They would have to be remedied?  
7 A And have an explanation.  
8 I will give you a couple examples. Someone who has  
9 oligohydranios, which is a decrease in the amniotic  
10 fluid, those people run into a lot of problems with cord  
11 compression because there is not a great deal of fluid to  
12 keep the baby off of the cord. They frequently show  
13 variable decelerations with late components. However, if  
14 you just turn them to the other side, the variable  
15 deceleration with the late component goes away.  
16 Another approach would be amnio infusion. There are  
17 a variety of things that can be done to relieve the  
18 pattern.  
19 Q Would it be a deviation from the standard of nursing  
20 care to do nothing to alleviate a pattern of continuous  
21 variable decelerations with a late component?  
22 A Yes.  
23 Q Would it be a deviation from the nursing standard of  
24 care to do nothing in response to continuous variable  
25 decelerations?

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1 A No, because, as I said -- well, let me say this  
2 again. Variable decelerations are very common. The vast  
3 majority of people have them in labor. Not all variable  
4 decelerations are considered significant.  
5 Q Where there is a non-reassuring pattern, pitocin is  
6 contraindicated; true or false?  
7 A A persistent non-reassuring pattern, yes, but what  
8 you have isolated down here as non-reassuring patterns and  
9 had me answer that in one or two minutes this looks  
10 non-reassuring, pitocin is not contraindicated, no.  
11 Q My question is this: Pitocin is contraindicated  
12 where there is a non-reassuring pattern?  
13 A It depends on the circumstances.  
14 Q Can there be a non-reassuring pattern, where pitocin  
15 is indicated?  
16 A Yes. Again, the way you have questioned me about  
17 one and two-minute segments is not a valid way to look at  
18 the tracing.  
19 Q As I understand it, you don't believe that a one or  
20 two-minute pattern is reassuring or non-reassuring, you  
21 can't tell from a one or two-minute pattern?  
22 A That's correct.  
23 Q All right.  
24 My question has to do with non-reassuring patterns.  
25 Pitocin is contraindicated where there is a non-reassuring

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1 pattern; true or false?  
2 A A persistent non-reassuring pattern, true.  
3 Q Pitocin intensifies contractions and can diminish  
4 further the flow of oxygen to the fetus; correct?  
5 A It can, yes. It doesn't always.  
6 Q That's why it's contraindicated for non-reassuring  
7 patterns; isn't it?  
8 A Which are persistent, yes.  
9 Q Epidurals are contraindicated for non-reassuring  
10 patterns; aren't they?  
11 A I would say that would be a relative  
12 contraindication. Sometimes when you have a  
13 non-reassuring pattern based upon -- again, it goes to  
14 the -- from now on I am going to answer your questions to  
15 mean a non-reassuring pattern which is persistent, so I  
16 won't say this over and over again. All right?  
17 Q All right.  
18 A I am going to rephrase your question and if I'm  
19 wrong, you can ask it again.  
20 Would an epidural be contraindicated with a  
21 non-reassuring pattern that was persistent and unremedial?  
22 Is that acceptable?  
23 Q You can go ahead and answer that question.  
24 A Yes.  
25 Q The answer is "yes"?

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1 A Yes.  
2 Q All right.  
3 If you had a non-reassuring pattern for a very short  
4 period of time and there was no subsequent reassuring  
5 pattern, wouldn't it be a deviation from the standard of  
6 care to administer an epidural?  
7 A No.  
8 Q Just so I understand, it's okay to have a two-minute  
9 non-reassuring pattern, see no reassuring pattern, and  
10 administer an epidural? That's okay?  
11 A Again, it depends upon the circumstances.  
12 There are other ways to judge fetal heart rate and  
13 to look at the fetus inside other than the fetal monitor  
14 tracing. All of the literature that the American College  
15 puts out, the American Academy of Pediatrics puts out says  
16 that it is equally acceptable to listen as it is to use  
17 this electronic fetal monitor. If you have got a  
18 non-reassuring pattern on the monitor and you listen and  
19 you see that the pattern goes away, it would be perfectly  
20 acceptable to do that.  
21 Q Even though the pattern might continue to show  
22 something that is non-reassuring?  
23 A No, because you have listened and you have ruled  
24 that out by auscultation.  
25 Q All right.

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1 Assume a situation where that hasn't been done.  
 2 A Someone has a non-reassuring pattern and that's it?  
 3 Q A brief non-reassuring pattern, an epidural is  
 4 administered without there being a reassuring pattern.  
 5 MR. COLUMBO: How brief is "brief"?  
 6 MR. COHEN: A minute, one minute.  
 7 BY MR. COHEN:  
 8 Q There has been a one-minute non-reassuring pattern  
 9 and no subsequent reassuring pattern --  
 10 A Again, as my previous answer was, I don't think you  
 11 can say a pattern is non-reassuring in one minute.  
 12 Q You can have a suspicion with a panel with a period  
 13 of time that is one minute; can't you?  
 14 A A suspicion?  
 15 Q Yes.  
 16 A I suppose, yes.  
 17 Q If the fetal monitor strip gave you reason to have a  
 18 suspicion for one minute and there was no subsequent  
 19 reassuring pattern and after that suspicion you gave an  
 20 epidural, that would be a deviation from the standard of  
 21 care; wouldn't it?  
 22 A You are presuming that no one has listened?  
 23 Q Yes.  
 24 A No one has checked the fetal heart tone in any way?  
 25 Q Yes.

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1 MR. COLUMBO: All you have is a suspicion?  
 2 MR. COHEN: Yes.  
 3 A It's only one minute?  
 4 Q Yes.  
 5 A I don't think so, because I don't think one minute  
 6 is long enough to, you know, make a decision on it.  
 7 Q I want to be clear on this.  
 8 You think it would be good medicine to have reason  
 9 for suspicion, no subsequent reassuring pattern and still  
 10 give an epidural?  
 11 MR. COLUMBO: I object to the form.  
 12 MR. STUHR: Note my objection.  
 13 When you say "no subsequent reassuring pattern,"  
 14 that's a nonsecular. Should he conclude that what you are  
 15 saying is that the subsequent pattern is non-reassuring?  
 16 MR. COHEN: No.  
 17 MR. STUHR: Well, if it isn't reassuring,  
 18 then what is it?  
 19 THE DEPONENT: Not there.  
 20 MR. COHEN: I think he is saying not there.  
 21 MR. COLUMBO: It can't be determined one way  
 22 or the other.  
 23 MR. DIITMAR: Okay.  
 24 A Also, he is saying no one is listening; right?  
 25 Q That is right.

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1 A The question is: Is it good medicine --  
 2 Q The question is this: Is it good medicine --  
 3 MR. STUHR: Well, note my objection as to  
 4 what is good medicine, because that's not what is  
 5 required.  
 6 MR. COLUMBO: I agree with the objection.  
 7 MR. COHEN: All right.  
 8 BY MR. COHEN:  
 9 Q You are telling us that it is good medicine to have  
 10 a suspicion from looking at one minute of a fetal heart  
 11 pattern and give an epidural without seeing a reassuring  
 12 pattern?  
 13 A Well, it would depend upon what the non-reassuring  
 14 pattern is.  
 15 In general, if you have someone who has a perfectly  
 16 normal tracing for hours and hours and they have a  
 17 one-minute deceleration, then that would not be a  
 18 contraindication, that would be good medicine to do.  
 19 However, if you have someone who appears like they're  
 20 going into a sinusoidal pattern for a minute, no, then it  
 21 wouldn't be. It would depend entirely upon what the  
 22 pattern was and it would also depend upon the clinical  
 23 circumstances.  
 24 Q I don't understand.  
 25 If you had a suspicion of a problem --

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1 A Well, that's not what you said.  
 2 You said a suspicion of a non-reassuring pattern.  
 3 Q Well, let's use that.  
 4 If you have a suspicion of a non-reassuring pattern,  
 5 why wouldn't it be good medicine to wait for a reassuring  
 6 pattern before you give an epidural?  
 7 A Well, it would be. It would also be good -- I mean,  
 8 you are saying the only good medicine is one thing?  
 9 Q No.  
 10 A There are many different approaches. There are many  
 11 different ways to handle it. Someone can practice good  
 12 medicine doing one thing and someone can practice good  
 13 medicine doing something else.  
 14 MR. STUHR: Note my objection and move to  
 15 strike any and all testimony regarding the administration  
 16 of the epidural because there will be no expert testimony  
 17 that the epidural was contraindicated.  
 18 MR. DIITMAR: It's okay. Just keep going.  
 19 BY MR. COHEN:  
 20 Q Just so I understand your position, it is not a  
 21 deviation from the standard of care if the pattern shows  
 22 reason for suspicion to give an epidural without waiting  
 23 for a reassuring pattern?  
 24 A No, that's not my answer.  
 25 My answer is that you have to put the suspicion.

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1 whatever that might be, in the context of the entire  
 2 patient care, you know, the patient, any condition she  
 3 might have, any complications she might have, any high  
 4 risk factors she might have, and then the question is:  
 5 What is the suspicion? If you are talking about a  
 6 variable deceleration, the level of concern about that is  
 7 much different from the level of concern about something  
 8 like a sinusoidal pattern. I don't think that you can  
 9 make that statement, whether it's good or bad, based on  
 10 one minute of tracing.  
 11 Q Doctor, I want to clear up whether or not and to  
 12 what extent you are going to give opinions about the  
 13 timing of this injury.  
 14 Do you have an opinion as to when this baby's injury  
 15 occurred?  
 16 A As I said, I can tell you the year, I can tell you  
 17 the month, I can tell you the day, I can fix it within, I  
 18 think, a period of time, but I can't give you the minute,  
 19 I can't come down to ten minutes.  
 20 By "injury," you are talking about the abruption; is  
 21 that correct?  
 22 Q I am talking about the brain injury.  
 23 A Well, I thought you meant the abruption.  
 24 MR. COLUMBO: He wants to know if you have an  
 25 opinion as to when the brain injury occurred in this

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1 child.  
 2 A As I said, I can pinpoint it to the day --  
 3 Q I have heard that.  
 4 I want to know whether you have an opinion --  
 5 A Well, yes, I do have an opinion.  
 6 My opinion is that it occurred on September 22nd,  
 7 1995 --  
 8 Q Can you be any more specific than that?  
 9 A -- and it occurred sometime after 5:00 p.m.  
 10 Q Can you be any more specific than that?  
 11 A I think most likely it occurred sometime after  
 12 6:00 p.m.  
 13 Q Can you be any more specific?  
 14 A Let me just answer what I mean by "occurred." A  
 15 brain injury is not, particularly this type of brain  
 16 injury, a sudden event, it doesn't happen in one second.  
 17 It's something which evolves over time. It is something  
 18 that would take several minutes to occur and then, given  
 19 time, would worsen.  
 20 What I'm talking about, when the brain injury  
 21 occurred -- and, maybe, I guess, I am asking for  
 22 clarification. What I'm talking about is when I think the  
 23 beginning of it occurs.  
 24 Q Right.  
 25 In your opinion, the beginning of brain injury

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1 occurs sometime after 6:00 o'clock?  
 2 A That's correct.  
 3 Q Can you be any more specific than that?  
 4 A As I said, the first evidence that I see is at 6:52.  
 5 so sometime between -- let me just take a second and look  
 6 at this time line I put together.  
 7 (Brief pause.)  
 8 A No, I don't think that I can be more specific than  
 9 that as to when the onset of it is.  
 10 Q Now, can you tell us when the abruption began?  
 11 A Sometime --  
 12 Q Do you have an opinion as to when the abruption  
 13 began?  
 14 A Yes.  
 15 I think the abruption began sometime immediately --  
 16 is he off?  
 17 MR. COLUMBO: Are you there, Rich?  
 18 MR. STUHR: Yes, I'm here.  
 19 MR. COLUMBO: Is that you --  
 20 MR. STUHR: Yes.  
 21 MR. COLUMBO: -- making that noise?  
 22 MR. STUHR: Yes.  
 23 MR. COLUMBO: Okay.  
 24 MR. COHEN: What is it?  
 25 MR. STUHR: It's a speaker phone.

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1 A The question is: Can I give an opinion as to when  
 2 the abruption occurred?  
 3 Q Yes.  
 4 A Most likely sometime after 6:00 p.m. on  
 5 September 22nd, 1995.  
 6 Q Have you ever advocated the reduction in patient  
 7 rights with respect to medical negligence cases?  
 8 A No.  
 9 I have advocated the opposite.  
 10 Q In what forum?  
 11 A I have encouraged my son to go to law school and to  
 12 become an attorney who will be someone who will be a  
 13 plaintiffs' advocate.  
 14 Q Any other forum that you have advocated that, an  
 15 increase in patient rights to sue doctors?  
 16 A No.  
 17 Q You have never advocated a reduction in patient  
 18 rights to sue doctors?  
 19 A No.  
 20 MR. COLUMBO: Do you actually know somebody  
 21 who has?  
 22 MR. COHEN: Pardon me?  
 23 MR. COLUMBO: Do you actually know people who  
 24 have? I mean, I can't imagine that somebody would ever  
 25 say yes.

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1 MR. COHEN: Do you mean have I ever asked  
2 anybody who admitted this?  
3 MR. COLUMBO: Well, I mean, just who does?  
4 BY MR. COHEN:  
5 Q Do you serve on any committees or societies having  
6 to do with medical malpractice insurance?  
7 A No.  
8 Q Do you have any role in any health maintenance  
9 organization?  
10 A Yes.  
11 Q What is that?  
12 A I'm an adviser to Keystone Health Plan West of Blue  
13 Cross. I am an adviser to Best Health Care of  
14 Pennsylvania. I have been the medical director for  
15 obstetrics and gynecology for the HMO alliance which was  
16 purchased by Blue Cross.  
17 Your question was -- could you repeat the question  
18 again because there may be more?  
19 Q Tell me all of the societies or committees on which  
20 you serve relative to health maintenance organizations.  
21 A Oh, I have had a great deal of activity related to  
22 health maintenance organizations.  
23 I started the Magee Physicians Association and was  
24 the first president of the Magee Physicians Association  
25 because we were concerned about patient rights as health

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1 maintenance organizations came into Western Pennsylvania.  
2 That was about -- it may be on that CV, but I'm going to  
3 guess that was eight or nine years ago. I have testified  
4 before the State Senate asking for expanded rates for  
5 patients from HMO organizations. I am chairman of the  
6 legislative committee of ACOG for Pennsylvania, trying to  
7 get legislation passed for expanded rates for patients who  
8 belong to HMO's. I am the chairman of the Board of the  
9 Magee PHO and I see my primary role as protecting patient  
10 rights in the face of managed care.  
11 Q Have you lectured on attempts to reduce the  
12 incidence of C-sections?  
13 A No.  
14 Q Have you written any articles relative to efforts to  
15 reduce the incidence of C-sections?  
16 A No.  
17 Q Have you in any way participated in efforts to  
18 reduce the incidence of cesarean sections?  
19 A You mean for me personally or for everyone?  
20 Q In any respect.  
21 A I can't think of any way, no.  
22 Q Are you aware of health maintenance organizations'  
23 efforts to reduce the incidence of cesarean sections?  
24 A Very much so. And they are very aware of my opinion  
25 on the subject.

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1 Q What is your opinion on the subject?  
2 A My opinion on the subject is that it has to be a  
3 medical decision, not an insurance decision, and that they  
4 have no right to try to intimidate people by doing this.  
5 Q How have you made that opinion clear?  
6 A In writing, in letters, in the paper that I wrote.  
7 Q Do you have any of those writings here in the  
8 office?  
9 A No.  
10 Also, in going down to the meetings of these various  
11 organizations.  
12 Q Where are these writings where you have advocated an  
13 expansion of women's rights to have cesarean sections?  
14 A Well, it's not limited to that, but it would be all  
15 women's rights.  
16 Q Well, that's what the questions are about.  
17 What paper did you write relative to expanding  
18 rights of patients to have cesarean sections in response  
19 to this effort that you have identified of HMO's  
20 attempting to reduce incidents of cesarean sections?  
21 A The paper is not a published paper. It was a paper  
22 that I wrote for the Magee Physicians Organization which  
23 has been circulated to Blue Cross, to U.S. Health Care,  
24 and to a wide variety of managed care organizations.  
25 Q Well, we are taking this deposition in your office.

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1 Can you get me a copy of it?  
2 A No.  
3 I don't have a copy of it. I wish I did.  
4 Q Where could I get a copy of that?  
5 A I don't know. I don't know that a copy of it  
6 exists.  
7 MR. DIITMAR: Well, just stop right here  
8 because it's probably put on a computer somewhere and it's  
9 a printout, if it was done, so --  
10 THE DEPONENT: No, it is not on any of my  
11 computers because I have subsequently looked for it  
12 because I have tried to get them to go back and look at  
13 what we agreed upon after I wrote that paper.  
14 I have checked three of my hard drives and it's not  
15 on there. If anybody has it, it would be Tom Kerr, who is  
16 one of the vice presidents at Blue Cross.  
17 BY MR. COHEN:  
18 Q Okay.  
19 A Can I expand on that answer because there is more?  
20 Q Sure.  
21 A There are more things that I have done in that  
22 regard. I might as well say them all.  
23 Initially when managed care came into Western  
24 Pennsylvania, I thought that there was a significant  
25 attempt to reduce women's access to health care, and I

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1 went on a virtual crusade to try to expand women's access  
2 to health care and to decrease insurance managed care  
3 organizations' interference in that. As I said, this  
4 involved Senate testimony, it involved negotiations with  
5 the large managed care organizations, it was really the  
6 expanded access for women, that Blue Cross now has in all  
7 of their managed care products is really based upon that  
8 paper that I'm telling you about that I gave to Tom Kerr  
9 and went down and met with him and subsequently that was  
10 expanded throughout all Blue Cross managed care products.  
11 Currently there is an open access plan for women  
12 being offered by the Tri-State Health Care Network which  
13 has been picked up by Blue Cross and will also be offered  
14 by U.S. Health Care, and I am the author of that policy.  
15 There is probably more. I have spent a lot of time  
16 on that.  
17 Q You have offered opinions in which I have been the  
18 plaintiff's attorney. This is now the third time; is that  
19 right?  
20 A I only remember one other.  
21 Q Which case was that?  
22 A The one that Terry Cavanaugh had, and I did a  
23 deposition in your office.  
24 I don't remember any others.  
25 Q You have kept a letter from you to me -- or, from me

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1 to you dated June 18th, 1992, which you have produced  
2 today; correct?  
3 A Yes.  
4 Q Why did you keep this?  
5 A I didn't keep it. My office manager kept it. I  
6 don't have any idea why. Usually these things are  
7 destroyed very quickly, but she has a letter file and it  
8 was in the letter file and she found it.  
9 Q You don't have any idea why it was kept?  
10 A No.  
11 Q Okay.  
12 A I didn't even know we had it. I had forgotten the  
13 whole --  
14 Q Before the year 1992, have you testified for  
15 patients in medical negligence cases?  
16 A Yes.  
17 Q When was the first time you testified for a patient  
18 in a medical negligence case?  
19 MR. COLUMBO: Prior to 1992?  
20 MR. COHEN: Yes.  
21 MR. COLUMBO: If you remember.  
22 Do you want, actually, a date?  
23 MR. COHEN: If he knows it.  
24 A No.  
25 Sometime in the mid 1980's.

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1 Q In your letter to me, you wrote that there is no  
2 evidence that performing cesarean sections early or during  
3 labor in any way prevents the development of cerebral  
4 palsy.  
5 A That's correct.  
6 Q Is that your opinion?  
7 A That's the opinion of ACOG and the technical  
8 bulletins.  
9 What I meant by that is that there is no evidence  
10 that intervening in the face of abnormal fetal monitor  
11 tracings in any way prevents the development of cerebral  
12 palsy. In fact, there is considerable evidence to the  
13 contrary; that it does not prevent the development of  
14 cerebral palsy.  
15 Q Well, why in the face of those tracings do you, as  
16 an obstetrician, perform cesarean sections?  
17 A I have tried to make it clear -- and I'm sorry,  
18 because I guess I haven't -- that I don't, that I take a  
19 look at the entire picture, the entire clinical picture,  
20 everything that is going on, and make the decision based  
21 upon that.  
22 It would be extremely rare for me to make a decision  
23 to do a cesarean section based strictly on a fetal monitor  
24 tracing.  
25 Q I thought we were over this.

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1 If you have a persistent bad pattern that doesn't  
2 resolve, don't you perform cesarean sections to prevent  
3 brain damage?  
4 A No.  
5 If you go back to the original literature on fetal  
6 monitors that Dr. Hahn published from Yale in the early  
7 seventies and trace it all the way up to the present day,  
8 the original purpose of the fetal monitor is not to  
9 prevent brain damage but to prevent fetal death. That's  
10 the primary indication to do these cesarean sections; to  
11 prevent fetal death.  
12 There is no evidence that responding on the basis of  
13 a fetal monitor tracing alone in any way prevents cerebral  
14 palsy. In fact, there is considerable evidence to the  
15 contrary, that it does not prevent it.  
16 Q Has the incidence of cerebral palsy remained  
17 consistent even with increased cesarean section  
18 intervention?  
19 A It has remained the same in term infants, and gone  
20 up in premature infants.  
21 Q Pardon me?  
22 A It has remained unchanged in term infants, like this  
23 one, and it has increased in premature infants.  
24 Q What study are you using to base that on that  
25 separates premature infants from term infants?

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1 A The data on term infants is widely quoted, you can  
2 get it from anyone. By anyone, I mean, you can get it  
3 from the American Academy of Pediatrics, you can get it  
4 from ACOG. It appears in the ACOG technical bulletins.  
5 Q The ACOG technical bulletins tells us -- what --  
6 about the incidence of cerebral palsy in term infants as  
7 distinguished from premature infants?  
8 A The ACOG technical bulletin -- it may not be in the  
9 bulletin. It may be in the standards or it may be in the  
10 Guidelines for Prenatal and Perinatal Care, but it's in  
11 one of those three publications. It publishes the data on  
12 term infants. The data on premature infants is from  
13 articles.  
14 Q I am asking you about term infants now.  
15 A Okay.  
16 It is either in the ACOG technical bulletins, the  
17 two on fetal monitoring, electronic fetal monitoring, that  
18 had been published in 1989 and 1995, or it is in the  
19 Standards for OB/GYN Services, Seventh Edition is the  
20 latest, or it is in the Guidelines for Prenatal or  
21 Perinatal Care, which is a joint publication by the  
22 American College of Obstetricians and Gynecologists and  
23 the American Academy of Pediatrics. You will find the  
24 same data, I think, in Perinatal Events and Brain Damage,  
25 which is an NIH publication in cooperation with the March

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1 of Dines and the National Academy of Strokes, a 1985  
2 government publication.  
3 Q Have we now covered all of the opinions that you  
4 intend to offer at trial?  
5 A Well, the opinions that I intend to offer depend  
6 upon the questions that I'm asked. I don't have any idea  
7 what questions you will ask me, so --  
8 Q Can I see your book, your notebook?  
9 A (Handing.)  
10 MR. COLUMBO: He will, obviously, be asked  
11 whether the nurses should have contacted the obstetricians  
12 any earlier than the obstetricians saw the patient,  
13 whether a C-section was indicated any earlier than it was  
14 performed, whether the nurses deviated from the standard  
15 of care in their interpretation or in their treatment at  
16 all of Mrs. Konnovitch. Obviously, those are the issues  
17 that he will be testifying about.  
18 I don't know that you have specifically asked those  
19 questions. You, obviously, know that that is the area of  
20 his testimony. I would presume if asked, he will give  
21 testimony that the physicians involved complied with the  
22 appropriate standards of care.  
23 BY MR. COHEN:  
24 Q I can't read your handwriting.  
25 Would you read what you have yellowed in your notes?

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1 A Okay.  
2 MR. COLUMBO: Just the yellow?  
3 MR. COHEN: Yes.  
4 A The first is from the deposition of Dr. Mupas,  
5 Page 45, "Dr. C" -- which means Dr. Chinakarn -- "saw  
6 patient at 12:30, Dr. M" -- which is Dr. Mupas -- "1850."  
7 Next is Pages 50 to 54, and it was your question;  
8 "Is pitocin appropriate when there is fetal distress?"  
9 58, this comes from page 58, "Non-reassuring does  
10 not mean fetus not receiving enough oxygen." That was  
11 Dr. Mupas's reply to your question.  
12 Page 66 -- this is, I think, your question -- "Can  
13 you tell if there is insufficient oxygen to the fetus from  
14 the tracings?"  
15 Page 101, "Call to Dr. Mupas at 6:00 p.m. Dr. Mupas  
16 notified."  
17 Page 107, "If you were told of bradycardia and late  
18 decelerations at 5:53, would you have ordered an  
19 epidural?"  
20 Answer, he would.  
21 109, he would have watched her get the epidural.  
22 110, not equipped for fetal scalp gases, September,  
23 1995.  
24 121, got to hospital around 6:50. 55896, "Dr. Mupas  
25 here." That's on the tracings.

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1 Next is from Dr. Mupas' and Chinakarn's office  
2 records, "Smokes half a pack a day, thirty-one year old  
3 gravida I."  
4 Q Why did you highlight "smokes half a pack a day"?  
5 A Because that's a risk factor for abruption.  
6 Q Did you see any other risk factors for abruption?  
7 A Just that one.  
8 Q Are patients who are at higher risk for abruption to  
9 be monitored any closer than patients who are not?  
10 A The answer would be no, but she was monitored very,  
11 very closely, anyway. The answer is no, because  
12 abruptions are unpredictable and unpreventable events.  
13 You can have a perfectly normal fetal monitor tracing and  
14 five minutes later there is an abruption and fifteen  
15 minutes later the baby is dead or thirty minutes later the  
16 baby is dead.  
17 Q You can run a stop sign --  
18 MR. COLUMBO: Wait a minute.  
19 MR. COHEN: Okay.  
20 A Doing monitor tracings doesn't in any way prevent or  
21 detect that an abruption is going to occur or predict that  
22 an abruption is going to occur.  
23 Q I thought we talked earlier about the fact that  
24 there are some abruptions that can and do show up on fetal  
25 heart monitors or at least that there is evidence of

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1 problems such as abruptions.  
 2 A Well, yes. You are talking about once the abruption  
 3 has occurred.  
 4 What I'm talking about is monitoring the patient  
 5 throughout the pregnancy.  
 6 I'm sorry. I misunderstood your question. I  
 7 thought you were talking about --  
 8 Q If a patient is at risk for an abruption, wouldn't  
 9 you want to monitor that patient more closely so you can  
 10 quickly perform a cesarean section if you can diagnose the  
 11 abruption?  
 12 A More closely than this, no. You couldn't monitor it  
 13 any more closely than this.  
 14 Q I know that you think that this was perfect  
 15 monitoring.  
 16 I am speaking --  
 17 A I didn't say that.  
 18 Q I am speaking in general terms.  
 19 In general terms, if a patient is at risk for an  
 20 abruption, how does that change at all the duties of the  
 21 obstetrical team caring for the patient?  
 22 MR. STUHR: Note my objection, without  
 23 further definition of what you mean by "at risk."  
 24 Are you talking about a smoker? Are we talking  
 25 about somebody with a history of vaginal bleeding? I

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1 think it makes a difference here in terms of what you mean  
 2 by "at risk."  
 3 A I thought you meant someone who smokes half a pack a  
 4 day.  
 5 Q All right.  
 6 Someone who has more risk factors than that. If  
 7 somebody has more risk factors than just smoking --  
 8 A They have had three previous abruptions?  
 9 Q Whatever, whatever.  
 10 If somebody --  
 11 MR. COLUMBO: I don't think you can just say  
 12 "whatever."  
 13 BY MR. COHEN:  
 14 Q If somebody is at high risk--  
 15 A For previous abruptions?  
 16 Q -- for an abruption, does that change the  
 17 obligations of the obstetrical team to that patient?  
 18 MR. COLUMBO: Let me object.  
 19 MR. STUHR: Note my objection.  
 20 There will be no such facts in evidence in this  
 21 case.  
 22 MR. COHEN: All right. We have got your  
 23 objection. The Doctor understands the question.  
 24 MR. COLUMBO: Well, let me object, as well.  
 25 I object to the form of the question in that I just don't

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1 think that you can throw out just "at risk" and "whatever"  
 2 and --  
 3 BY MR. COHEN:  
 4 Q Doctor, do you understand the question?  
 5 MR. COLUMBO: I object to the form of the  
 6 question.  
 7 MR. COHEN: All right. You have made your  
 8 objection.  
 9 A I think it would depend upon the circumstances, what  
 10 makes her high risk. Someone who has had four fetal  
 11 deaths from four fetal abruptions in the past you would  
 12 monitor very differently than someone who smokes half a  
 13 pack a day.  
 14 Q How would you monitor a patient who is at high risk  
 15 for a fetal abruption --  
 16 MR. COLUMBO: I object to the form of the  
 17 question.  
 18 BY MR. COHEN:  
 19 Q -- as compared with a patient who isn't?  
 20 MR. COLUMBO: Asked and answered. I object  
 21 to the form of the question.  
 22 Go ahead and answer it, if you can.  
 23 MR. STUHR: Note my objection, as well.  
 24 MR. COHEN: We have got it.  
 25 A Well, again, it would depend upon how you would

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1 define someone as high risk.  
 2 Q I understand that.  
 3 A I would define somebody --  
 4 Q Well, you have already done it -- or, I thought you  
 5 did.  
 6 MR. COLUMBO: Well, then why are we asking  
 7 the question?  
 8 MR. COHEN: Because I want to know how the  
 9 monitoring changes.  
 10 A Okay. If I had someone who had four previous  
 11 abruptions and was pregnant again, and, thus, at high risk  
 12 to have another abruption, I would do an amniocentesis on  
 13 her very early in the pregnancy, probably about thirty-six  
 14 weeks, and depending upon when the other abruptions had  
 15 occurred, if the baby was mature at thirty-six weeks, I  
 16 would get her delivered a month early.  
 17 Q Would it change at all the method in which the  
 18 patient would be monitored?  
 19 A No, because the monitoring is not reliable, as I  
 20 said, on an abruption. You can have a perfectly normal  
 21 monitor tracing and five minutes later the abruption  
 22 occurs.  
 23 MR. COHEN: I am going to take a break.  
 24 MR. COLUMBO: Okay.  
 25 (Brief break.)

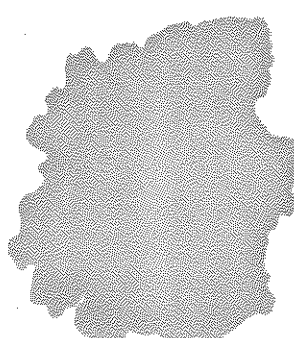
Page 116

1 BY MR. COHEN:  
2 Q What is your definition of bradycardia?  
3 A Bradycardia is mild, moderate, and severe. Mild  
4 bradycardia is bradycardia between 100 and 120, moderate  
5 rate bradycardia is bradycardia between 80 and 100, and  
6 severe bradycardia is bradycardia under 80. Those are  
7 ACOG's definitions.  
8 MR. COHEN: That's all of the questions I  
9 have.  
10 MR. COLUMBO: I have one question. I just  
11 want to make sure it's clear.  
12 - - -  
13 EXAMINATION  
14 BY MR. COLUMBO:  
15 Q Doctor, can you diagnose or predict a placental  
16 abruption based upon the appearance of a fetal monitoring  
17 strip?  
18 A No.  
19 Q Okay.  
20 MR. COLUMBO: That's all I have.  
21 He will read.  
22 MR. COHEN: That's it.  
23 - - -  
24 (Whereupon, at 6:50 o'clock p.m., the  
25 deposition concluded.)

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1 Deposition of: JOHN J. KANE, M.D. (5/15/97)  
2  
3 CHANGES AND/OR CORRECTIONS  
4 PAGE LINE CHANGE/ REASON FOR  
CORRECTION CHANGE/CORRECTION  
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1 CERTIFICATE  
2  
3 Commonwealth of PENNSYLVANIA, )  
4 County of ALLEGHENY. ) SS:  
5  
6 I, Jamie J. Fagen, do hereby certify that before me,  
7 a Notary Public in and for the Commonwealth of  
8 Pennsylvania, personally appeared JOHN J. KANE, M.D., who  
9 then was, by me, first duly cautioned and sworn to testify  
10 the truth, the whole truth, and nothing but the truth in  
11 the taking of his oral deposition in the cause aforesaid;  
12 that the testimony then given by him as above set forth  
13 was, by me, reduced to stenotypy in the presence of said  
14 witness, and afterwards transcribed by computer-assisted  
15 transcription.  
16 I do further certify that this deposition was taken  
17 at the time and place in the foregoing caption specified,  
18 and was completed without adjournment.  
19 I do further certify that I am not a relative,  
20 counsel or attorney of either party, or otherwise  
21 interested in the event of this action.  
22 IN WITNESS WHEREOF, I have hereunto set my hand and  
23 affixed my seal of office at Pittsburgh, Pennsylvania, on  
24 this \_\_\_\_\_ day of May, 1997.  
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