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Aug. 20, 1992

Re: Michael Sparr, et al vs. Samaritan
Hospital, et al

Dear Mr. Mellino

Enclosed please find the original deposition
of Dr. Stuart Edelberg taken in the above-entitled
matter on Aug. 10, 1992. Should he desire to make
corrections, please have him do so on the attached errata
sheet rather than to mark up the original deposition.

A signature line is provided at the bottom of
the certificate page. Please have him sign and date the
errata sheet and return the deposition transcript with the
errata sheet enclosed, to this office.

In order to comply with Maryland Rules of
Procedure, the transcript must be read, signed and returned
to this office within thirty (30) days from receipt of
this letter.

Very truly yours,

Richmon C. Gore

#587

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IN THE CIRCUIT COURT FOR COMMON PLEAS
ASHLAND COUNTY, OHIO

MICHAEL SPARR, ETC.

CN: 34518

vs.

JUDGE HENDERSON

SAMARITAN HOSPITAL, et al.

_____/

Pursuant to Notice, the deposition of DR.
STUART EDELBERG was held on Monday, August 10, 1992,
commencing at 4:45 p.m. at the BWI Marriott, 1743
Nursery Road, Baltimore, Maryland, 21090, before Ronda
Hayes, Notary Public.

- - - - -

APPEARANCES:

CHRISTOPHER M. MELLINO, ESQUIRE,
On behalf of Plaintiff

K. RICHARD AUGHENBAUGH, ESQUIRE,
On behalf of Defendant (Via Telephone)

- - - - -

Reported by:
Ronda Hayes

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STIPULATIONS

It is stipulated and agreed by and between Counsel for the respective parties that the filing of this deposition with the Clerk of Court is hereby waived.

DR. STUART EDELBERG,
called as a witness, having been first duly sworn to tell the truth, the whole truth, and nothing but the truth, was examined and testified as follows:

MR. MELLINO: One is that Jerry Kaler was given notice of the deposition and because of his familiarity with Dr. Edelberg he said he has a pretty good feel for what he is going to testify to and he elected not to come to the deposition. And Chuck just wanted me to make sure that by doing the telephone deposition you were waiving any right you had to take Dr. Edelberg's deposition in person.

MR. AUGHENBAUGH: I am waiving that right. You are talking about discovery purposes.

MR. MELLINO: Yes.

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1 MR. AUGHENBAUGH: And I do not expect to
2 anticipate any other deposition with Dr. Edelberg
3 unless he changes his opinion.

4 EXAMINATION BY MR. AUGHENBAUGH:

5 Q. Doctor, I can't see you and I appreciate you
6 accommodating me. I wonder for the record if you would
7 state your full name?

8 A. Stuart Charles Edelberg, E-D-E-L-B-E-R-G,
9 S-T-U-A-R-T.

10 Q. Do you have a C.V. somewhere?

11 A. Yes, I do.

12 Q. I wonder if you would mind giving it to Mr.
13 Mellino so he would give it to me?

14 A. That has just been done.

15 Q. I don't expect to go over the things that are
16 in your CV provided, Chris, you can supply me with a
17 copy would that be all right.

18 MR. MELLINO: Sure.

19 Q. Doctor, I assume you have hospital privileges
20 somewhere?

21 A. Yes, I do.

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1 Q. In more than one institution?

2 A. For hospitals, I only have privileges in one
3 institution, that is Sinai of Baltimore.

4 Q. Sinai of Baltimore?

5 A. That's correct.

6 Q. How large a hospital is that, sir?

7 A. That's four hundred plus beds.

8 Q. Is that a level one, two or three
9 institution?

10 A. Well, it's a tertiary care center. We're
11 dropping the level, now. It would be considered level
12 three by the old definition in terms of obstetrics and
13 gynecology.

14 Q. Relatively sophisticated?

15 A. Yes, sir.

16 Q. And under the old definition you would be a
17 level three at Sinai?

18 A. Correct.

19 Q. And do you function over at Sinai Hospital
20 other than as admitting physician or staff physician?

21 A. I am head of the residency head of resident

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1 education in obstetrics and gynecology.

2 Q. And you have occupied that for how long,
3 please?

4 A. Two and half years, now.

5 Q. I can't see you, I have no idea how old you
6 are. Could you tell me?

7 A. 55, sir.

8 Q. A young man.

9 A. Thank you, I needed that.

10 Q. I wanted to ask you how you manage to get
11 together with Mr. Kampinski in this case?

12 A. Well, I was formerly from Cleveland and I ran
13 a major obstetrical residency program in Cleveland at
14 Cleveland Metropolitan General Hospital which is Metro
15 Health Medical Center. I did some medical, legal,
16 while I was there and both defense and plaintiff's work
17 and Mr. Kampinski had contacted me on some cases in the
18 past.

19 Q. Okay. So, he communicated with you directly
20 rather than through some service?

21 A. I never used a service, sir.

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1 Q. Do you advertise your availability as an
2 expert anywhere?

3 A. No, I do not.

4 Q. When was it that you were contacted first
5 about the case, please?

6 A. I am not sure, sir. I don't have that
7 original letter.

8 Q. What was your task supposed to be?

9 A. Well, usually what happens is an attorney
10 will call me. I'll ask him to run the case by me,
11 before I even bother looking at it to see if it's in my
12 field of expertise. If I feel that it's of interest,
13 then I will ask them to send the case to me. I will
14 then review it and call them back and tell me what my
15 find accident were.

16 If they want a letter they get a letter if
17 they don't want it they don't get a letter. And that's
18 basically the way most cases arrive on my desk.

19 Q. What did you understand your project was with
20 regard to this case?

21 A. Well, again, it's strictly reviewing a record

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1 and advising the attorney of what my findings are.

2 Q. As to what subject?

3 A. On the entire medical record in terms of
4 obstetrical and gynecologic care.

5 Q. The propriety of the care?

6 A. Propriety of the care both from nursing and
7 physicians' point of view.

8 Q. How many cases have you done with Mr.
9 Kampinski's office before.

10 MR. MELLINO: I am going to object, what do
11 you mean by done.

12 Q. Well, okay. Have you worked on other cases
13 with Mr. Kampinski's office?

14 A. I've probably seen a number of cases and I
15 probably rejected a number of cases. I don't know how
16 many cases I truly have accepted. I would think I've
17 seen maybe five or six cases but that's a guess over
18 the years.

19 Q. Do you have any other ones at the moment with
20 Mr. Kampinski's office?

21 A. I am really not sure if there are any active

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1 ones.

2 Q. What materials did you have an opportunity to
3 see?

4 A. Initially it was just the medical records and
5 that includes the monitor sheets. I don't see an
6 original attorney's record but I don't believe anything
7 that they write anyhow so I do my own review. I see
8 clinical data from Susan Allman this looks like out-
9 patient records. And I know I have the hospital
10 record, I have some pediatric records.

11 Q. Subsequently, did you receive other material?

12 A. Subsequently I have received some
13 depositions.

14 Q. Whose depositions?

15 A. Stauffer, Allman, Loftus, Lance, those are
16 the only ones I have here.

17 Q. The four nurses?

18 A. Correct.

19 Q. Have you read --

20 A. Wait a minute I just found another one in the
21 pile, here.

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1 Q. Okay what's that?

2 A. This is Slagle.

3 Q. All right. Do you have all the records that
4 you needed in order to make an opinion?

5 A. Yes, sir, I do.

6 Q. Did you see the plaintiff here, the baby?

7 A. No, I have not examined the baby.

8 Q. Do you need to do that in order to reach your
9 opinion in this case?

10 A. No, I really would not be qualified to
11 evaluate the baby it's not in my area of expertise.

12 Q. Was the standard of care in 1986 when this
13 baby was born, the same in material respects as it
14 relates to your opinion as is today?

15 A. Obviously some things have changed. But in
16 terms of this case not a lot has changed. I did review
17 William's of '86 to make myself more comfortable for
18 this particular error.

19 Q. So, you did consult the William's book during
20 the course of your study of this case?

21 A. That's correct.

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1 Q. Did you rely on any part of it for your
2 opinion here?

3 A. Not really just reinforced things that I know
4 quite well.

5 Q. So, did you find that your opinions were in
6 anyway influenced by a change in the standard of care
7 between '86 and the time that you made your opinion?

8 A. No, it hasn't. There have been a number of
9 bulletins from the American College that have altered
10 our thinking a little bit. And I always take them into
11 consideration that if they downgrade something, I will
12 downgrade it in the past. I won't hold somebody to
13 that exact standard if things are changed and modified.

14 Q. Do you have an opinion as to the propriety of
15 the care rendered by the nurses in this case?

16 A. Yes, I do.

17 Q. What is your opinion?

18 A. My opinion is they basically dropped the
19 ball, here. This is a, if you want me to summarize
20 I'll give you a quick synopsis.

21 Q. That would be good?

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1 A. Here is woman who comes in nulliparous female
2 having had no premature, full term pregnancies and
3 during early labor normal tracing is noted. She's 42
4 plus weeks or thereabouts. Making her somewhat at
5 risk. The first few blood pressures there's a mild
6 elevation, which then requires you to make the
7 diagnosis of pregnancy induced hypertension and
8 requires very close observation. Here, the institution
9 chose to do fetal monitoring and the initial fetal
10 monitoring is quite normal.

11 The physician apparently gave some standard
12 orders and remained at home. In spite of the elevated
13 blood pressure an enema was given which is a little out
14 dated for 86. And the patient was taken off the
15 monitor for a period of time. Which I believe even Dr.
16 Slagle was uncomfortable with. The initial monitor
17 tracing is perfectly normal. When she's put back on
18 the monitor there's a tachycardia or higher heart rate
19 associated with decreased variability, which is a
20 worrisome tracing. Not ominous but worrisome and
21 certainly a change from her initial tracing.

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1 Then for some explicable reason, which I
2 cannot explain to you, the monitor was removed for
3 approximately 30 minutes. Nurses say the patient
4 objected to the monitor and that would not be a
5 satisfactory reason for removing the monitor given the
6 tracing that was present for approximately a half hour
7 thereabouts.

8 The monitor is then put back on, and at that
9 point, the monitor tracing is extremely poor quality.
10 And I cannot tell you what went on for a period of time
11 because there literally is a totally inadequate tracing
12 and considering now you have a post-dated patient with
13 probably pregnancy induced hypertension, that is
14 unacceptable.

15 Q. What's unacceptable?

16 A. That they are not getting an adequate
17 continuous tracing.

18 Q. Okay.

19 A. Now ultimately, a bradycardia is picked up by
20 direct auscultation probably by Doptone here and there's
21 a persistent bradycardia for a prolonged period of time

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1 without any attempt to delivery or any maneuvers except
2 oxygen is given. The patient does reach full
3 dilatation the bradycardia continues. There's some
4 evidence by multiple auscultations that we may have a
5 wondering baseline. This is very ominous in that you
6 would find a fetal heart of 88 and fetal heart of 156.

7 So there's really a problem going on and then
8 ultimately membranes are ruptured and the mother, the
9 baby, spontaneously delivers and then there's a very
10 poor resuscitative process. And a team is not standing
11 by capable of resuscitating this baby. The doctor is
12 unable to intubate the baby times three. And there's a
13 delay in neonatal resuscitation.

14 The pH is, I believe, on the charge I didn't
15 see a pH for at the time of the delivery. A cord pH.
16 In one of the depositions it was mentioned that it was
17 very low, I believe. The first pH that I have is
18 extremely low with a large base deficit, indicating
19 that there was a marked delay in neonatal
20 resuscitation. And ultimately the baby suffered from
21 birth asphyxia.

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1 Q. All right. Now, so the specific areas in
2 which the nurses fell below the standard of care are
3 what, please?

4 A. One, removing the monitor. Certainly, the
5 second time. The first time would be a borderline kind
6 of thing. I am upset by the removal because I don't
7 think the enema should be given in the face of
8 preeclampsia. However, removing the monitor after
9 there's abnormal tracing is unacceptable. That's
10 clearly wrong and removing it for 30 minutes is wrong.

11 And then in the face of inadequate tracing
12 when the monitor is finally replaced the failure to
13 apply an internal monitor or calling someone to do
14 that is again unacceptable and does not meet standard
15 of care. And of course the delay in the delivery fails
16 to meet standards of care. And then the neonatal
17 resuscitation fails to meet standards of care.

18 Q. I was asking you, at that point, essentially
19 the criticisms that you directed to the nurses as
20 opposed to anyone else. Do you, in your opinion, is
21 the delay in the delivery criticisms related to the

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1 nurses?

2 A. Yes, it is, because they didn't call the
3 doctor in.

4 Q. Okay.

5 A. Now, normally when one looks at a tracing the
6 characteristic way a tracing goes from good to bad or
7 bradycardia is, you will see a normal tracing with
8 normal variabilities. I read the early tracing. And
9 you will then see abnormalities of a tracing namely
10 tachycardia, decreased variability, late deceleration,
11 severe variable decelerations.

12 And ultimately the baby decompensates and you
13 see bradycardia and the last thing is a wondering
14 baseline and that's the most ominous. We don't really
15 have a good tracing from the time that there's
16 abnormalities to the point that the bradycardia is
17 picked up.

18 Q. Okay?

19 A. But somewhere during that time, in all
20 probability, the tracing demonstrated the need for
21 prompt delivery. And that would require in all

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1 probability in this case, a C Section and since it's a
2 Level 1 hospital, they would have 30 minutes to
3 accomplish that delivery. And had that been done, in
4 all probability, a good neonate would have been
5 delivered. Or a healthier neonate.

6 Q. Do you have any criticism of the hospital
7 other than directed to the nurses, themselves?

8 A. Well, again, it's not having a neonatal
9 resuscitative team present but the nurses did not call
10 that team in.

11 Q. Would the condition of this labor and
12 delivery require a neonatal resuscitative unit to be
13 present under ordinary circumstances?

14 A. Yes it would because as I said, they would
15 have ruptured membranes because of the poor quality of
16 the tracing. When they did that they would have noted
17 meconium. Now, fetal distress requires a neonatal
18 resuscitation team be present. Meconium requires
19 neonatal team be present.

20 Q. Now, the nurses would not have known about
21 the meconium until the membranes ruptured?

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1 A. That's correct. When there was an abnormal
2 tracing at just after the enema, when there's decrease
3 variability I believe that's 12:53 I have in my notes.
4 I'd have to look at the tracing to be exact. Once you
5 see the fetal tachycardia that now requires invasive
6 monitoring or rupture of the membranes and putting on a
7 scalp electrode.

8 Q. So that regarding the hospital itself you
9 feel that the hospital failed to meet the standard of
10 care by not providing a neonatal resuscitation team?

11 A. Team for delivery.

12 Q. Okay. Do you know if they have one?

13 A. Well, you have pediatricians available and
14 you have to call your pediatrician in. So a
15 pediatrician can do it. Today, especially in
16 Cleveland they have Code Pink Teams. Where they are
17 actually training nurses to be part or completely the
18 resuscitative team.

19 Q. So the problem here, in your opinion, was
20 that the hospital didn't have such a team available?

21 A. Or person. The pediatrician did ultimately

1 come in. But the pediatrician should have been present
2 at delivery. And had the fetal distress been
3 recognized early on, the pediatrician would have been
4 there. Certainly at 1:23 a.m., there was a severe
5 bradycardia. Oxygen was begun and so there was plenty
6 of time to notify a pediatrician because the baby
7 wasn't delivered until 1:57 a.m.

8 Q. Do you have any criticism of Dr. Slagle?

9 A. Well Dr. Slagle, should have been notified to
10 be there.

11 Q. That isn't a criticism of him?

12 A. No, he has to hear from nursing that we have
13 a patient with elevated blood pressure, who is
14 post-dates and we need you here. Initially, I am not
15 so critical. Once you have that second tracing then
16 it's mandatory they call them to come in because it's
17 an abnormal tracing when she returns from the bathroom.

18 Q. All right, can you tell me the time when you
19 believe that Dr. Slagle should have been called by the
20 nurses?

21 A. All right. I am opening up the monitor strip

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1 and I know the non-stress test that was done a few
2 days before is normal. The initial monitor strip that
3 I am looking at, this is 7/25 that's not the one.

4 Initially, our tracing begins at 2152 and we
5 have a normal tracing although the contractions are
6 quite frequent. Which may account for why the baby may
7 have gotten into trouble. That's not the physician or
8 hospital's fault. That just happens the uterus is
9 contracting very frequently or polysystaly.

10 But we have some accelerations of the fetal
11 monitor which suggested good fetal well being. At
12 approximately 2223, patient is placed on her side. The
13 tracing continues quite normally.

14 And then at 23:10 she's given a Fleet Enema.
15 The monitor is reinstituted at 23:53 and that is panel
16 49, 515. The fetal heart was previously running with a
17 baseline of about 140 to 144 with good variability in
18 acceleration. When the monitor is now reinstituted we
19 see significantly decreased variability. The fetal
20 heart is running upwards of 160 which is a mild
21 tachycardia. There's question of late deceleration

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1 seen there. We have a contraction that certainly
2 occurred at midnight and appears there's a late
3 deceleration there.

4 That's the point where they have to call the
5 physician in and say we need to evaluate. The tracing
6 looks quite different from previously, there's no
7 variability. I've got a question of late deceleration
8 and panel 49,516 which is the contraction prior to
9 that, there's some skip areas but there's the
10 impression of late deceleration there.

11 So over that ten minutes period of time or
12 15 minute period of time it's time to call the
13 physician in. Well, apparently at about two or three
14 minutes after the midnight. The tracing was
15 discontinued and as we discussed that before because
16 the nurses said the patient complained about the
17 monitor. Well with abnormalities as seen there you
18 cannot remove the monitor. And then it's not replaced
19 until 0:37 after midnight or 37 minutes after midnight.

20 And then the tracing is so poor and the
21 contraction monitor is so poor that I can't, I can't

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1 tell you what goes on for a good period of time here.

2 I am up to 1:10, now.

3 1:15, still a bad tracing. And then we have
4 a fetal heart that they did listen to at about 1:20
5 a.m., and it says fetal heart 1:20. But we have, we
6 can't tell where that is in relationship to
7 contractions.

8 There's then another fetal heart listed at
9 49,534 which would be about 1:24 a.m. That's 88,
10 there's a bradycardia, they are starting oxygen and now
11 you have got a medical emergency. And that bradycardia
12 essentially continues.

13 There's some wondering, for example, at 1:30
14 there's a fetal heart of the 126 and then it drops down
15 to 92. There's a 156 listed at 1:40, again, what I
16 spoke about is this could be the wondering baseline but
17 the tracing is essentially none existed. And I can't
18 tell when the contractions are occurring. We could
19 have been very severe lates and a persistent
20 bradycardia. And I would assume this is a end stage
21 bradycardia which then goes into a wondering baseline.

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1 Q. All right. You are suggesting that the
2 time when Dr. Slagle was to be notified by the nurses
3 was 23:53?

4 A. Or around midnight. Somewhere in that
5 neighborhood. We certainly have a very poor tracing
6 from a 3 institution. And you have to allow the nurses
7 sometime to observe. But now we have elevated blood
8 pressure. We have got post-datism and abnormal
9 tracings, that requires calling the physician in to
10 come evaluate.

11 It also, if you are a Level 1 hospital, and
12 you have got an abnormal tracing and all these risk
13 factors you start putting your C Section team together
14 because you may have to do an emergency section and
15 since you don't have everyone in house you have to call
16 them to come in to prepare for a possible emergency
17 section.

18 Q. So at around midnight we needed to call not
19 only Dr. Slagle, but also the C section crew?

20 A. That's correct.

21 Q. Plus we also needed to have the

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1 resuscitation.

2 A. We notify the resuscitation team we may have
3 an emergency delivery. What clearly you would like to
4 do at that point is rupture membranes and in all
5 probability you would have found the meconium which
6 added one more risk factor. The internal monitoring
7 will give you a much clearer picture of what's going on
8 in terms of fetal well being.

9 Q. When do you think that the internal monitor
10 should have been placed?

11 A. As soon as there's a question of the subtle
12 late decelerations and degrees variability, around
13 midnight.

14 Q. Now, nurses don't do that?

15 A. No, they have to call the physician in to do
16 that or they have to have a house physician to do it.
17 If they don't have a house physician then they are
18 going to have to wait until the doctor gets in and it's
19 going to take them another 15 or 20 minutes.

20 Q. So at that point you feel there was
21 sufficient evidence that they were encountering a fetal

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1 distress problem that they should have called the
2 doctor, so, he could have came in and put the internal
3 monitor?

4 A. That's correct and that's exactly what you
5 would expect in someone who is post-datism with
6 elevated blood pressures. There's a degree of placenta
7 insufficiency. These babies do very, very well as long
8 as the uterus is quiet. When contractions begin that's
9 where they begin to get deoxygenated and that's when
10 they get into trouble.

11 Q. Getting back to the original question about
12 Dr. Slagle. Do you have an opinion as to whether or
13 not his care met with the standard of care, here?

14 A. Well, technically it met the minimum
15 standards of care. In other words, he came in
16 apparently when he was called. An earlier forcep
17 delivery could have been done if he is trained in it.
18 And that I don't know how well he is trained.
19 Certainly in term of his attempt of resuscitation, he
20 attempted the intubation and missed it or was unable to
21 do it times three. Performing a procedure and not

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1 doing it successfully is technically not malpractice.
2 Not doing it is malpractice.

3 Q. So, what you are saying here is that you have
4 no criticism of Dr. Slagle's management of this case?

5 A. Other than I would have preferred him
6 attempting the delivery at a little earlier stage.

7 Q. Now, of course when he got there, he has a
8 choice of whether or not to proceed with the vaginal
9 delivery or try to do a C Section, at that point?

10 A. That's correct and I don't believe he has the
11 capability of doing a C section, I may be wrong.

12 Q. In any case the idea is to get the child out
13 as quickly as possible, right?

14 A. That's correct. Now, if they are a Level 1
15 hospital and nothing has been prepared, it's going to
16 take 30 minutes to put together a C section team to get
17 the baby delivered.

18 Q. So if he could actually accomplish delivery
19 before the C section team could be assembled there
20 would be no criticism in him not having a C section
21 team?

1 A. That's correct.

2 Q. Okay. Did that happen, here?

3 A. I believe, I have to pinpoint the exact time
4 he came in. I know that's in the nurses' notes and it
5 says Dr. Slasle here and I have to find my nursing
6 notes.

7 Q. While you are looking for that. You are
8 saying that this particular kind of a hospital it would
9 take 30 minutes approximately to arrange for a C
10 section?

11 A. That's correct. It's difficult for me to
12 read these notes. I have got big black lines through
13 my labor curve.

14 Q. In your opinion --

15 A. Wait just a second. I am getting some other
16 records to look at.

17 A. Maybe I am missing it. I just don't see a
18 note where it says Dr. Slagle is here. Wait, wait here
19 we go. 1:51. I see, it's says Dr. C.A.S.

20 Q. That's right, he arrived at 1:50 and
21 delivered the child at 1:57?

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1 A. Well, then he has done his job.

2 Q. It would be pointless to do a C section?

3 A. That's correct.

4 Q. He was able to manage it by a regular vaginal
5 delivery?

6 A. That's correct.

7 Q. So you don't have any criticism of him for
8 not doing a C section dependant on the fact that he
9 wasn't there until 1:51?

10 A. That's correct.

11 Q. Now, do you have any criticism-- let me ask
12 it a different way. You have given me a variety of
13 criticisms you have of the nurses and the way they
14 managed the labor and delivery. Aside from the nurses'
15 conduct, is there anybody at the hospital who is
16 subject to a criticism by reason of your review of the
17 charts?

18 A. Again, my area of expertise is not neonatal
19 medicine. But, no, I see no other deficiencies in my
20 reading of the medical records at least in terms of
21 maternal care.

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1 Q. So the criticisms as we're listing them
2 pertains solely to the nurses, here?

3 A. That's correct.

4 Q. In your opinion, Doctor, were any of the
5 hospital written policies and procedures violated?

6 A. I don't know.

7 Q. Do you see from your review of the charts any
8 policy deficiencies the hospital may have had, as it
9 relates to this case?

10 A. Well, again, most hospitals have a fairly
11 standard kind of policies of how nursing should
12 identify high risk. I haven't read their statements
13 but certainly elevated diastolic blood pressure would
14 qualify. Post-datism would qualify as high risk.
15 Abnormal fetal heart tracings would qualify as high
16 risk. And the failure to get inadequate tracing would
17 require that something else be done. Either frequent
18 fetal hearts or more appropriately internal fetal
19 monitoring.

20 Q. All right. After the child was born, do you
21 have any criticism of the nurses following that point?

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1 A. Well, again, it's a matter of the
2 resuscitation team not being there.

3 Q. All right?

4 A. And an obstetrican --

5 Q. And that criticism was for them not bringing
6 the resuscitative person or persons into the case quick
7 enough, right?

8 A. That's correct, because obstetricans usually
9 do not administer Sodium Bicarbonate to an acidotic
10 baby. They wait for the pediatrician. The obstetrican
11 job is to get the intubate and get the baby oxygenated
12 and that's about the level of their expertise.

13 Now, some hospitals have protocols where they
14 maintain at least the obstetrican's resuscitative
15 skills by having them intubate ketamized or sedated
16 cats to maintain their skills.

17 So there are various things a hospital can do
18 to make sure the skills are maintained. I was
19 practicing in Tucson, Arizona one hospital was a level
20 three and one a level one. And the level one since it
21 didn't have neonatal resuscitative teams in the early

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1 70's or mid 70's required us to come in and demonstrate
2 our skills on ketomized cats to be sure we can intubate
3 in an emergency until help arrived.

4 Q. I guess what I am asking you, Doctor, is
5 whether you feel that the nurses had any are to be
6 criticized for the way in which the resuscitative
7 process was handled, other than the fact they didn't
8 call the resuscitative personnel when you suggest it
9 should be done?

10 A. Not that I can see from reading the records.
11 This is still, unknown, after intubation then that
12 becomes the neonatologist's province or pediatrician's.

13 Q. And you feel that even though the
14 resuscitation process was not entirely successful that
15 nobody failed to meet the standard of care in that
16 connection?

17 A. No, as I said, they met the minimum standards
18 of care by attempting the intubation.

19 Q. Okay. Have you given me all of the opinions
20 you have or the criticisms you have as it relates to
21 the medical care rendered in this labor and delivery?

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1 A. I think that's pretty much in a nutshell,
2 yes.

3 Q. Would you agree, Doctor, that the placement
4 of the internal monitor requires the membranes been
5 ruptured?

6 A. Yes.

7 Q. And doctors are the only ones who do that?

8 A. No, that's not entirely true. Some hospitals
9 do allow the nurses to put on scalp electrodes and
10 rupture membranes.

11 Q. Is that the standard of care?

12 A. It depends on the hospital. I would not hold
13 the hospital to do that.

14 Q. Now, I noticed in this chart of several
15 places the fetal heart rate was determined by Doppler?

16 A. That's correct.

17 Q. Is this a customary practice in the absence
18 of good fetal heart readings from the monitor?

19 A. Depending on how you do your Doppler. It's
20 considered by Acog (phonetic) today as an adequate
21 standard. That's why I say we talked about new

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1 standards, Acog has clearly indicated to us that
2 careful auscultation of the fetal heart every 15
3 minutes after a contraction is as good probably as
4 continuous fetal heart monitoring. None of us have
5 gone to that method because it actually requires more
6 intensive nursing than the fetal heart monitor.
7 Because we don't have to have one-on-one nursing.

8 Q. But it is acceptable to use a Doppler for the
9 checking of the fetal heart information?

10 A. That's correct. But you want to do that
11 right after a contraction so you can assess for late
12 deceleration and of course they did begin it but they
13 began it at I believe, 1:20 a.m.

14 Q. Is there any connection between an abnormal
15 fetal heart tracing and fetal distress?

16 A. Well, there's a correlation between the two.
17 Obviously, there are many false positives, where you
18 can have an abnormal tracings and you do a scalp pH and
19 you find it's perfectly normal.

20 Q. So, an abnormal tracing does not necessarily
21 mean that the fetus is in distress, does it?

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1 A. That correct.

2 Q. It may mean there just may be stress there?

3 A. That's correct but a bradycardia is a horse
4 of a different color.

5 Q. All right. That's when the fetal heart rate
6 drops off?

7 A. That's correct assuming you have a normal
8 tracing prior to that. The finding of a slow heart
9 beat as your first finding in labor may indicate a hard
10 abnormality. So that in itself is not an immediate
11 abnormality but in this particular case we go from
12 normal to very abnormal.

13 Q. Is it significant when a tracing goes from
14 normal to abnormal and back to normal?

15 A. If it goes back to normal that's a very good
16 sign and that can happen with in utero resuscitation.
17 In other words, let's assume we're running poticin and
18 you get late decelerations and the tracing becomes
19 quite abnormal you turn the woman on her left side you
20 stop the poticin and start oxygen and indeed if the
21 tracing improves you may back off for a while. You

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1 have just resuscitated the baby so that can happen.

2 Q. Is it possible for the some abnormalities
3 shown on the fetal heart monitor to be transients?

4 A. That also happens all the time sure.

5 Q. One the things you have to learn when you are
6 going to read the monitors is to differentiate between
7 a situation where there may simply be abnormalty in the
8 tracings and the situation where the fetus is really in
9 distress?

10 A. That's correct.

11 Q. Okay?

12 A. That's why we rupture membranes and place
13 internal monitors to get a better read and if we find
14 meconium that's a good correlation with what's going
15 on. Meconium does not mean fetal distress in itself.

16 Q. No, but it's one of those things that may?

17 A. That's correct.

18 Q. In this particular case, what actually
19 occurred here to demonstrate the fetal distress. Was
20 it simply the readings on the monitor?

21 A. Well, again, we're missing a lot of tracing.

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1 And when we go from a normal tracing to a flattened
2 baseline which tends to indicate a drop in pH.
3 Probably in a 7.20 range. There appears to be late
4 decelerations, the monitor is removed again. And then
5 the monitor is replaced and there's essentially no
6 reading for a long period of time.

7 Then there's a severe and prolonged
8 bradycardia, which appears to have some evidence of
9 some wondering baseline. That's all I can say about
10 the tracing. Somewhere between the beginning and the
11 end, there were sustained abnormalities which would
12 be recognized as fetal stress/distress.

13 Q. All right. So, that combination of items
14 that you just mentioned leads you to conclude that's
15 when fetal distress was going on?

16 A. Well, we have evidence of fetal
17 stress/distress when the monitor is here placed after
18 the enema. Because we have a fetal tachycardia. We
19 have lack of variability and we have probably two late
20 decelerations there. Certainly one is very easy to read
21 and one is suggestive.

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1 Q. So at that point, and we're talking midnight
2 there is fetal stress.

3 We're talking about?

4 A. Fetal stress developing distress.

5 Q. What constitutes bradycardia?

6 A. Bradycardia is a persistent heart rate under
7 120. Particularly under 110. Now, there can be
8 variations as you go along and we have numbers like
9 88, 126. And 92 and 116, 156, 88, 125, 92, 80. Those
10 are ominous numbers for the most part.

11 Q. You are reading the fetal heart rate?

12 A. Correct.

13 Q. And those come off?

14 A. Doptone.

15 Q. The Doppler?

16 A. That's correct.

17 Q. In this case you feel that those that heart
18 rate is too low?

19 A. That's correct.

20 Q. All right. Did you notice from time to time
21 that heart rate goes up as well as down?

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1 A. That's correct. That may mean what we call a
2 wondering baseline. And because that is the end stage.
3 Usually you will go from stress to fetal distress to
4 bradycardia to your wondering baseline. Now, not
5 absolute. But that's in general what goes on.

6 Q. Would that also be indicative of a relief of
7 whatever was producing the bradycardia?

8 A. Not one or two numbers, no.

9 A. Just to clarify a little bit more based on a
10 fetal heart of 123 of 88 and 125 at 104 and a history
11 of meconium, if you had ruptured membranes. Finding
12 meconium, knowing there's lack of variability, knowing
13 there was late decelerations that would constitute a
14 crash section in an academic center.

15 Q. Now, you suggested the nurses should have
16 notified Dr. Slagle at midnight?

17 A. That's correct.

18 Q. What would they have told him?

19 A. They should have told him that we have a
20 patient who has elevated diastolics consist with
21 pregnancy induced hypertension. We have a patient who

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1 is post-dates. We have a patient whose tracing shows
2 lack of variability with a fetal tachycardia of 160
3 and probably some late decelerations. We need you to
4 come in and evaluate right now.

5 Q. What was the last item, please?

6 A. Late decelerations.

7 Q. You believe that all five of those things
8 dictated the need to be reported to the doctor and the
9 doctor instructed to come in, at that point?

10 A. That's correct.

11 Q. If the doctor had been notified, at that
12 point, what would have changed here?

13 A. Well, hopefully the doctor would have come
14 in, ruptured membranes, found meconium and identified a
15 fetal distress and notified the team, a team to be
16 assembled and or the team should have already been
17 assembling and then an emergency C Section performed.

18 Q. What's the significance of the entry in the
19 chart about calcification in the placenta?

20 A. That just goes along with post-datism and
21 pregnancy induced hypertension. In other words,

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1 there's advanced placental aging with that particular
2 condition. And so one develops placental insufficiency
3 in labor and we discussed that before. These babies do
4 very well at rest and get into trouble at labor.
5 That's why when one has a patient with post-dates or
6 with known hypertension or preeclampsia or pregnancy
7 induced hypertension. You want them to come in early
8 in labor because that's when the fetus gets into
9 trouble.

10 Q. That indicates the factor for describing this
11 as a high risk pregnancy?

12 A. The placental calcification is a very common
13 finding and depending on the degree it would go along
14 with post-datism.

15 Q. Would you be in a position to give us an
16 opinion as to when the brain damage occurred with
17 respect to this child?

18 A. Well, it's always very hard to pinpoint
19 exactly when it began. Because we're missing so much
20 of the tracing. I mean it certainly appears when she
21 came back from her enema that there was fetal stress/

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1 distress. And some time between that point and 1:23
2 the baby probably became acidotic. So probably when
3 the baby developed the bradycardia that's the point
4 where in all probability the brain damage began.
5 Because that's when the compensatory mechanisms give
6 way in the fetus.

7 MR. MELLINO: Could you stop for a minute,
8 Doctor. My understanding was that you were in the
9 process of retaining approximate cause expert?.

10 (A discussion was held off the record.)

11 BY MR. AUGHENBAUGH:

12 Q. Doctor, just a few more things, here. Number
13 one, there's been a suggestion here that when the
14 nurses applied the fetal heart monitor that they only
15 applied one of the sound transducers and not both. Do
16 you see any evidence of this in this case?

17 A. No, I do not.

18 Q. As far as you can see when the nurses applied
19 this external fetal heart monitor they did it in the
20 way it was supposed to be done?

21 A. Correct, there's a doptone device that is

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1 there. periodically picking up fetal heart rates. And
2 there's also what we call a todokynamometer which can
3 pick up although poorly uterine activity.

4 Q. So, there are as far as you can see in the
5 reading the tracings, so far as they are readable, you
6 believe the monitor was attached properly?

7 A. The monitor was attached properly but not
8 adjusted properly.

9 Q. That was the other question. What is it that
10 causes in your judgment here this inadequacy in the
11 external fetal heart monitor readings?

12 A. Usually it requires moving the monitor around
13 until you get an adequate tracing. Certainly some of
14 the older monitors are more difficult to use than the
15 newer monitors. But the fact is, if you are unable to
16 produce a decent tracing with external monitoring. For
17 reasons of obesity or fetal position, then you just
18 have to go to internal monitoring.

19 Q. What do you think the reason why they could
20 not get the good reading on this external monitor
21 was here?

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1 A. I can't answer that question, I don't know.

2 Q. Is it possible that movement of the patient
3 would influence the readings taken by the fetal heart
4 monitor?

5 A. Movement can affect it but then you chase the
6 baby by continuously moving it.

7 Q. Do you think there was something wrong with
8 the machine?

9 A. I don't know.

10 Q. So, you are not, there isn't sufficient
11 information in the record for you to tell why the fetal
12 heart tracings looked like they do?

13 A. No, because they got very good tracings early
14 on. They got very good tracings after the enema and
15 then they got terrible tracings.

16 Q. Okay. Do you think this has something to do
17 with the way indeed the monitor was adjusted?

18 A. Possibly. But again, you can switch to an
19 internal scalp electrode very simple and straight
20 forward. And at least you will be able to monitor
21 fetal heart rate. And if you are having trouble with

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1 the contractions, it's very simple to put the nurse by
2 the bed side and observe when the contraction begins
3 and ends and mark on the monitor. So you can be very
4 unsophisticated and get very decent tracing.

5 Q. You keep going back to the scalp electrode.
6 That requires the rupture of the membranes does it not?

7 A. They can.

8 Q. So you just can't put that on whatever you
9 want to if the membranes are intact?

10 A. No, someone has to rupture the membranes and
11 some hospitals the nurses would be permitted to be put
12 it on. Most hospitals would require a physician.

13 Q. So, the nurses in this case, you are not
14 critical that they didn't put the internal monitor on.
15 You are critical they didn't notify the physician to do
16 it?

17 A. That's correct.

18 Q. Doing it actually means you have to rupture
19 the membrane?

20 A. That's correct. And there are some risks
21 associated with rupture of membranes that why most

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1 hospitals don't want nursing to rupture membranes.

2 Q. Thank you Doctor, very much. I appreciate it
3 and I apologize for my inattendance.

4 A. No, thank you for a short depo.

5 (Deposition concluded.)

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CERTIFICATE OF DEPONENT

I hereby certify that I have read and examined the foregoing transcript, and the same is a true and accurate record of the testimony given by me.

Any additions or corrections that I feel are necessary, I will attach on a separate sheet of paper to the original transcript.

Deponent

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1 State of Maryland
2 County of Baltimore, to wit.

3 I, RONDA HAYES, a Notary Public of the
4 State of Maryland, County of Baltimore, do hereby certify
5 that the within-named witness personally appeared before
6 me at the time and place herein set out, and after
7 having been duly sworn by me, according to law, was
8 examined by counsel.

9 I further certify that the examination was
10 recorded stenographically by me and this transcript is a
11 true record of the proceedings.

12 I further certify that I am not of counsel to
13 any of the parties, nor in any way interested in the
14 outcome of this action.

15 As witness my hand and notarial seal this
16 20th day of August, 1992.

17 Ronda Hayes
18 RONDA HAYES,
19 Notary Public
20
21

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