

Dr. Steven Klein

TRIAL #18

1 THE STATE OF OHIO,)
2) SS: JOHN E. CORRIGAN, J.
COUNTY OF CUYAHOGA.)

3 IN THE COURT OF COMMON PLEAS

4 (CIVIL DIVISION)

5 ---ooo---

6 ERIC HAWKINS, a minor,)
etc., et al.)

7 PLAINTIFFS,)

8 VS.)

CASE NO. 957170

9 BEDFORD MUNICIPAL)
10 HOSPITAL et al.,)

11 DEFENDANT.)

12 ---ooo---

13 TRANSCRIPT OF PROCEEDINGS
14 MONDAY, DECEMBER 1, 1986

15 ---ooo---

16 APPEARANCES :

17 On behalf of the Plaintiffs:

18 Weisman, Goldberg, Weisman & Kaufman, by
19 Fred Weisman, Esq., and
Richard J. Berris, Esq.

20 On behalf of the Defendant, Bedford Municipal
Hospital:

21 Weston, Hurd, Fallon, Paisley & Howley, by
22 C. Reynolds Keller, Jr., Esq.

23 On behalf of the Defendant, Bedford Municipal
Hospital:

24 Kitchen, Messner & Deery, by
25 Steve W. Albert, Esq.

Doc. 239
part I of II

1 APPEARANCES, CONTINUED:

2 On behalf of the Defendant, Felino P. Reyes M.D.:

3 McNeal & Schick, by
4 Harley J. McNeal, Esq.

5 On behalf of the Defendant, David Dongwook Choi,
6 M.D.:

7 Gallagher, Sharp, Fulton & Norman, by
8 George W. Stuhldreher, Esq.

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25 Regis J. Meyer
Thomas C. Walters
Official Court Reporters
Cuyahoga County, Ohio

MONDAY, DECEMBER 1, 1986

MORNING SESSION

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THE COURT: You may call
your next witness.

MR. ALBERT: We would like
to call, on behalf of Bedford Hospital,
Dr. Steven Klein, if the Court wishes.

THE COURT: Fine,

THEREUPON, the Defendant,
Community Hospital of Bedford, to further
maintain the issues on its part to be
maintained, called as a witness, DR.
STEVEN M, KLEIN, who, being first: duly
sworn, was examined and testified as
follows:

DIRECT EXAMINATION OF DR. STEVEN M. KLEIN

BY MR. ALBERT:

Q Could you state your full name for the
record, please?

A Steven M. Klein, K-l-e-i-n.

Q And your occupation?

1 A I'm a physician.

2 Q And your professional address, please?

3 A 26900 Cedar Road, That's in Beachwood,
4 Ohio, 44142.

5 Q Dr. Klein, would you outline, please, for
6 the jury your educational background and
7 training up until the present time starting
8 with college?

9 A I went to Washington and Jefferson
10 College in Washington, Pennsylvania for four
11 years.

12 Then I went to the Ohio State Medical
13 School for another four years.

14 After that I did an internship in
15 medicine at the Ohio State University and then
16 in 1970 I went to the hospital of the
17 University of Pennsylvania in Philadelphia
18 where, for the next four years, I did a
19 residency in obstetrics and gynecology,

20 One of those years was spent in doing
21 research, primarily in fertility and
22 endocrinologic work.

23 Then in 1974 I came to Cleveland as a
24 private obstetrician and gynecologist, and
25 until the present time, that's what I have been

1 doing, private obstetrics and gynecology.

2 Q What hospitals, if any, do you hold
3 privileges to practice medicine at at the
4 present time?

5 A Well, Mount Sinai Hospital of Cleveland
6 is my primary hospital, I take most of my
7 patients there,

8 I am also associated with University
9 Hospital, with Hillcrest Hospital and with
10 Suburban Community Hospital.

11 Q What societies and professional
12 organizations, if any, do you belong to?

13 A Well, I belong to the American Medical
14 Association and the Ohio State Medical
15 Association. I belong to the American College
16 of Obstetrics and Gynecology.

17 I belong to the American Fertility
18 Society. I belong to the Society of
19 Reproductive Surgeons, I belong to the
20 Cleveland Obstetrical Society.

21 Q What is the American College of
22 Obstetrics and Gynecology?

23 A Well, the American College is a group of
24 individuals who are trained in obstetrics and
25 gynecology, and most of whom have passed what

1 are called the Boards.

2 These are special examinations given to
3 graduates of residency programs to determine
4 competency in obstetrics and gynecology.

5 So this group of individuals got
6 together, I believe it was 1950, if I am not
7 mistaken, formed the American College, it is
8 known as the American College of Obstetrics and
9 Gynecology, mainly for educational purposes,
10 post-graduate programs.

11 The college makes sure we are all kept **up**
12 to date by producing literature and by
13 conducting these post-graduate programs.

14 Q What percentage of your time is spent
15 with the practice of medicine and teaching of
16 medicine?

17 A Well, other than when I am home, it is
18 probably 100 percent of my time, I don't think
19 that I can ever, except on vacation, get away
20 from a telephone or from a sick patient or
21 patient going into labor which they seem to do
22 at all hours of the night.

23 So I practice obstetrics and gynecology
24 and/or teach it all the time.

25 Q Okay. Would you tell the jury whether or

1 not I had requested that you review a matter on
2 behalf of Bedford Hospital pertaining to the
3 delivery of a child by the name of Eric Hawkins
4 at Bedford Hospital?

5 A Yes. Well, we have known each other for
6 some time and socially, play golf a little bit
7 together, and you had asked me whether or not
8 as an obstetrician and gynecologist, whether I
9 would review cases for you occasionally that
10 pertain to obstetrics and gynecology, and I
11 said that I would be more than happy to.

12 As such, you contacted me -- I don't
13 remember whether it was by telephone or by
14 letter initially, but you asked me to review
15 some materials concerning Eric Hawkins and
16 Bedford Community Hospital, and I said that I
17 would.

18 Q Okay. You have a recollection of what
19 materials you have reviewed in order to
20 formulate opinions in this matter?

21 A To be accurate, I made a copy of the
22 things that I did review.

23 I reviewed the depositions of Dr.
24 Edelberg, Dr. Horwitz, Dr. Coker, Dr.
25 Kretchmere. I reviewed the testimony of the --

1 trial testimony of Dr. Horwitz.

2 I reviewed the Bedford Hospital records
3 of Mrs. Bettie Hawkins and of Eric Hawkins
4 concerning the 11/8/74 delivery of Eric
5 Hawkins.

6 I then reviewed, very briefly, Dr.
7 Luczek's prenatal records of Mrs. Hawkins.

8 Those are the materials that I reviewed,

9 Q Okay. Were you able to formulate
10 opinions with respect to the care and
11 treatment--

12 A Yes.

13 a I just want to know if you have some
14 opinions, and are they elevated to reasonable
15 medical certainty and probability, all the
16 opinions which you hold?

17 A Yes, I do have opinions, and **yes**, I
18 believe they are very probable.

19 Q Okay. Setting aside your opinions for
20 the moment, and with the Court's permission,
21 you have obtained, I understand certain visual
22 aids that could assist you in discussing with
23 the jury the relationship of mother and baby at
24 the time of labor and delivery, is that
25 correct?

1 A **Yes.**

2 Q And with the Court's permission, could
3 you come down to the jury and demonstrate for
4 the jury with the aid of the visuals, the
5 situation, the relationship of mother and baby
6 during the labor and delivery of a Frank breech
7 presentation such as Eric Hawkins was?

8 A Correct, I apologize that we don't have
9 a huge screen, and it is sometimes perhaps a
10 little difficult to see this, but this is a
11 baby, and the baby, ordinarily, would fit or
12 come down the birth canal in that position,

13 The birth canal, being this boney pelvis,
14 if you can for a minute this being here, but
15 this is the sacrum and this is the ilium and
16 this is the pubis, and this is a boney pelvis
17 that doesn't stretch or give very much.

18 Ordinarily, the baby would fit down, head
19 first, into this boney pelvis. Can you all **see**
20 that?

21 Okay. So this is the picture then of an
22 infant who would ordinarily come down head
23 first into that boney pelvis, but in this
24 situation, the baby is coming down breech
25 first, or buttocks coming, first.

1 **Also**, in a Frank breech, which is a term
2 given to describe the position of the baby,
3 these are the legs of the baby, are extended
4 almost straight up and the umbilical cord which
5 is attached right at the belly button of the
6 baby is going up towards the placenta which is
7 attached into the uterus in front, on the back
8 and on the side. We don't know where it was
9 attached in this situation, but the umbilical
10 cord comes up here.

11 It can go across the shoulder and it can
12 go around the hip of the baby, and again, we
13 don't know, but it is down here,

14 So picture the baby then coming through
15 the birth canal, breech first, or buttocks
16 first into this pelvis,

17 Also picture, those of you who are women,
18 perhaps and have had children, will know that
19 as the head goes down into the pelvis first,
20 this way, the bones of the head overlap or can
21 overlap, There are soft spots around the
22 bones. The **bone's** aren't **fused**, and it is
23 called molding. This allows for the head which
24 is a fairly sizeable structure, then to fit
25 nicely into the pelvis.

1 Well, if the breech fits first, it
2 doesn't give -- once the breech or once the
3 abdomen and perhaps the shoulders are
4 delivered, it doesn't give the head too much
5 time for these bones to overlap and fit through
6 the boney pelvis, **so** sometimes trauma can
7 result, and the baby can be fairly battered as
8 it is being delivered through the boney pelvis,

9 **Now**, this is the textbook of obstetrics
10 and gynecology, and this may be very difficult
11 for you to see, and I would be happy to -- here
12 is a baby being delivered in a breech position,

13 Here's the pubis and the sacrum and
14 that's all you see of the pelvis. These are
15 the forceps and these are the Piper forceps,
16 P-i-p-e-r, forceps, and these are the forceps
17 that Dr. Choi used to deliver this baby in
18 pretty much this way.

19 It ought to have been delivered, and
20 ought to have been applied to the baby's head
21 in this way. We don't know if that's the way
22 it was, but this is the way it should have
23 been.

24 Now, notice the umbilical cord here. The
25 umbilical cord is severely stretched, and here

1 is the placenta way up here. This compression
2 of the umbilical cord or stretching,
3 particularly, even before this event occurs
4 when this breech and when this body is still
5 back up in here, but the breech is down in the
6 vagina enough so that this pubis and the sacrum
7 squeezes the body, this umbilical cord gets
8 squeezed as well.

9 So when the breech reaches the vaginal
10 opening, there are only a very few minutes the
11 obstetrician has to deliver the baby because
12 the umbilical cord which is the baby's blood
13 and oxygen and nutrition supply isn't going to
14 work very well anymore.

15 It may either entirely cut off any blood
16 flow at all or partially, and the baby may
17 suffer because of that, so breech births are
18 extremely dangerous for that very reason.

19 I just wanted you to understand how a
20 breech delivery occurs, not necessarily
21 technically, but you can see what the situation
22 is.

23 Q Now, I want to ask you whether or not you
24 have over your professional career, had
25 occasion to supervise and instruct nurses in

1 obstetrics, particularly with respect to labor
2 and delivery?

3 A Yes, I have.

4 Q Okay. Have **you** been able to formulate **an**
5 opinion which would come past the period of
6 1974 **as** to the appropriate standards for a
7 **nurse** in the labor and delivery?

8 A Well, **yes**, I have. I think that the
9 nurses are of invaluable assistance --

10 MR. WEISMAN: Objection.

11 THE COURT: Overruled.

12 Go ahead,

13 Q Go-ahead, YOU may express your opinion.

14 A -- to the delivery process, if you will,
15 to the labor and delivery process. I think
16 that nurses on labor and delivery ought to be
17 able to assess the status of health of the
18 mother and **of** the fetus and to be able to
19 understand this health status and to be able to
20 report to the obstetrician what the status and
21 the **changes** of health status, as far as the
22 baby and the mother are concerned.

23 I think that **she** ought to be aware
24 therefore, and cognizant of deviations from
25 normal. I think there are normal things that

1 happen in labor and **delivery**, and I think that
2 things can be **deviated**, and I think **she** ought
3 to be aware of this and ought to contact the
4 obstetrician if and **when** abnormalities occur.

5 So she has to monitor mother and baby,
6 fetus, she has to observe the mother and fetus,
7 she has to examine **the** mother and she may
8 examine her and I **would** expect her to be able
9 to examine the mother to **determine** the status
10 of labor, where it **is**, where the presenting
11 part is, and how **high** it is, and what the
12 cervix is **doing**.

13 She has to be able to administer those
14 things that the doctor wants administered,
15 medications, for example, either **for** pain, and
16 in this **case**, she **would give** Demoral, and if
17 the doctor wanted **Pitocin** to **augment** the labor
18 or induce labor, **she** would be able to
19 administer these medications.

20 I think **she** ought to be able to assist
21 the doctor, **this** may be **assisting** in the care,
22 and as far as the **delivery** is concerned, she
23 had to be instructed, for instance, to cut, an
24 **episiotomy**, to help the doctor. She ought to
25 be able to do that and she ought to be able to

1 help in the resuscitation of an infant, should
2 it be necessary.

3 **So** these are things that I try to get
4 across to nurses **as** I see them and **as** I
5 instruct them and that is what I would expect
6 to be the standards of nursing care **as** it
7 pertains to labor and delivery,

8 **Q** Now, with respect to resuscitation, if
9 and when it is needed in the delivery room,
10 assuming that the child, when born, is 1 **Apgar**
11 at one, and there are two physicians present,
12 an anesthesiologist and obstetrician, do you
13 have an opinion as to the appropriate standard
14 of **care** for the nurse's participation in **this**
15 effort?

16 **A** Well, if the anesthesiologist is busy
17 with the mother, and/or the obstetrician is
18 busy with the mother, **then** she is the remaining
19 person in the room, must do what she feels she
20 has to do in order to revive or resuscitate
21 this **Apgar 1**.

22 I don't know if you all understand what
23 **Apgar** is -- it is just the **way** that we have of
24 telling each other how sick **a baby is** or how
25 well a baby is.

1 An Apgar can be a 10, which is terrific,
2 and the baby is about ready to walk home, or 1,
3 which means the **baby** is extremely ill, perhaps
4 **even** near death, and the only thing that is
5 going on is a little bit of a heartbeat, if
6 that.

7 I would think that a nurse, under those
8 circumstances, has to be able to do what any of
9 **us** would do, and that is to try **and** save the
10 five of the baby at that point in time.

11 If, however, the anesthesiologist, and/or
12 **the** obstetrician can come, then she acts as an
13 assistant, rather than the main resuscitator --
14 she **does** those things that the doctor wants her
15 to do in order to help.

16 Q I want you to **assume** that there **was** a
17 Nurse Cerhardstein who was present during the
18 labor and delivery with Mrs. Hawkins and Eric
19 **Hawkins, and** that her role **was** to monitor,
20 which she, in fact, did at intervals of 30
21 minutes during the first stage of labor, and 15
22 minutes during the second stage of labor or
23 **sooner** with Dr. Choi, the obstetrician,
24 checking the fetal heart, monitoring it in the
25 interim.

1 I would like you to **assume** further that
2 during the time of the delivery she noted to
3 Dr. Choi that: there was a three-minute period
4 of time which had passed in the efforts to
5 deliver the head, and that **she** also advised at
6 the five-minute period of time **or** thereabouts
7 that **she** observed this to be a long period of
8 time, that she communicated with Dr. **Choi**, the
9 obstetrician, concerning the status of the
10 child by virtue of the fetal heart throughout
11 the labor and delivery as best; she could obtain
12 it, and that **she** was unable to obtain it,
13 although **she** made efforts to obtain a fetal
14 heart rate during the final **30** minutes before
15 the delivery, and that she **advised** Dr. Choi of
16 that fact.

17 That she suctioned the child's mouth with
18 a suction to remove mucus after the delivery,
19 and that she suggested, although has no
20 recollection at the time of trial, a hot and
21 cold bath being suggested to the physicians who
22 were attempting to resuscitate, and by that she
23 meant warm tap water being run **aver** the child
24 on a momentary basis, in effect to try to shock
25 the child's system, and that otherwise **she**

1 merely carried out the orders of the
2 obstetrician as she was requested to do
3 throughout the labor and delivery.

4 Assuming those facts to be true, and in
5 evidence, do you have an opinion based upon
6 reasonable medical certainty and probability as
7 to whether: or not a nurse, Nurse Gerhardstein,
8 comported with an accepted standard of nursing
9 care?

10 MR. WEISMWN: Objection.

11 THE COURT: Overruled.

12 A I believe that if the facts occurred as
13 you have related to me, I find no deviation
14 from appropriate standards of care at all.

15 If you would like to get into specifics,
16 we can discuss then, but I think that she did
17 everything that I would expect a nurse to do.

18 Q Well, why don't you tell me why you
19 believe that Nurse Gerhardstein did what she
20 was expected to do under the circumstances that
21 I have outlined to you?

22 A Well, we can go back to labor, As you
23 know, and from my review of the records, Mrs.
24 Hawkins came to the hospital around 2:30 in the
25 afternoon of November 8th, at which time she

1 was not in labor. She ruptured the water and
2 that was at home, and she came in at 2:30.

3 It was known that she had a breech
4 presentation, that: it was not a head first --
5 it was a breech or buttocks first presentation.

6 Things, apparently at that time were
7 fairly stable as assessed by the nurses,

8 Somewhat later on in the afternoon, Dr.
9 Choi, who was apparently covering for Dr.
10 Luczek, suggested that pelvimetry be obtained.

11 Still, Mrs. Hawkins was not in labor,
12 Pelvimetry is an X-ray study of the pelvis to
13 determine size and from the size and the
14 various diameters of the pelvis, one can then
15 help make somewhat of a judgment as to whether
16 or not the baby can fit through the pelvis
17 adequately,

18 The pelvimetry was borderline, borderline
19 normal as it was called, the mid pelvis and
20 outlet were tight, but normal, but borderline.

21 It wasn't a very spacious pelvis. She
22 had a history of having a six-pound child in
23 the past -- six pound, eleven ounce, I believe
24 in the past that had passed through the pelvis
25 before.

1 Well, at about 4:30 or so in the
2 afternoon, Dr. Choi, because she was not in
3 labor, decided to put her into labor with
4 Pitocin, and **he** did this according to the
5 record, I believe, to prevent infection.

6 If membranes have been ruptured for a
7 prolonged period of time, infection can happen,
8 **so** he wanted to put her **into** labor, and **it was**
9 my opinion, or is my opinion that at the time
10 **that** he put her into labor, the breech was **way**
11 **up** high.

12 The pelvimetry **was** borderline at best,
13 **It was** a tight pelvis, **The** cervix **was** highly
14 dilated. It was 1 centimeter dilated which is
15 about a fingertip.

16 It was just, from my experience and my
17 opinion a precarious situation, to stimulate
18 labor with Pitocin, nonetheless, the labor **was**
19 stimulated and Nurse Cerhardstein and the other
20 nurses, I believe, watched and observed this
21 labor as it occurred.

22 **So** at about 5:00 in the afternoon,
23 **Pitocin was** begin, and **was** continued.

24 Finally at about 8:00 in the evening, the
25 cervix **was now** about 3 to 4 centimeters

1 dilated, The **first** part of labor **is** called the
2 latent phase, just that the cervix is getting
3 ripe and ready to start to dilate.

4 The second part: of labor **from** about 3 to
5 4 centimeters until complete dilation of the
6 cervix occurs is called the active **phase** of
7 labor, so from the record, I would assume that
8 the active labor started around 8:00.

9 Mind you, these contractions were
10 continued to be stimulated by the Pitocin. We
11 recorded heart beats and observations of mother
12 about every 30 minutes, which is according to
13 the standards of **care**, even back in 1974, and
14 **especially** in 1986, they haven't changed much,
15 if at all.

16 Pitocin was **continued**, and the cervix
17 **finally** dilated to completely -- completely
18 dilated at about 2:00 in the morning, **so** from
19 8:00 to about 2:00 is six hours to go from
20 4 centimeters to 10 centimeters or 6
21 centimeters -- six hours to go 6 centimeters to
22 be completed dilated.

23 That's slow, That's what **we** call
24 dysfunctional labor,

25 The active phase should **be** much **more**

1 rapid, particularly in a woman who has
2 delivered a baby before -- didn't happen,

3 **She was going at 1 centimeter an hour.**
4 **She ought to be going at least 1.4 centimeters**
5 **an hour, even with a breech presentation.**

6 Up to this point, baby's heart beat **was**
7 **recorded as being normal, within normal ranges.**

8 There is no evidence that the baby had
9 **decelerations of the heart beat, slow heart**
10 **beat or extremely fast heart beat, That was**
11 **never, at least never recorded, and the**
12 **recordings were done about every 15 minutes, I**
13 **believe, during this active phase.**

14 Finally, when the patient became complete
15 at **2:00** in the morning, it took from **2:00 to**
16 **3:50 a.m.,** or an hour and fifty minutes before
17 delivery **was** accomplished.

18 Now, this is an extremely long time **as**
19 **well.** Most women who have had, who **have not**
20 **had babies would be in about 35, 40 minutes,**
21 **deliver** the baby from when they are completely
22 dilated until the time of the actual delivery,

23 Even in women who have had **babies** before,
24 probably 20 minutes or 25 minutes should be
25 anticipated for delivery of the baby, **but this**

1 took an **hour and** fifty minutes.

2 All of these things, to me, in my
3 opinion, which **is** getting off the track, **now**,
4 of nursing standards, **showed** me that this baby
5 and this pelvis were disproportionate, that the
6 pelvis was **very** tight and that this **baby was**
7 **big**, as far as **his pelvis** were concerned, and
8 **one** could have almost anticipated **from** the very
9 beginning that this baby was going to have a
10 very difficult delivery through the vagina,
11 especially as a breech, because the **breech**, as
12 I said before, as I pointed out to you before,
13 the head **doesn't have** a chance to mold.

14 It is like a nice, big -- almost like a
15 bowling ball in there, **not molded** to the
16 **pelvis**, and it can't **come** through very well.

17 Q Can you distinguish what you would
18 anticipate the obstetrician's **role** would be in
19 that regard and the nurse's role, if there is
20 any distinction **there**?

21 A Hell, **et** the time the patient is
22 completely dilated at **2:00** in the morning, the
23 doctor, Dr. Choi is in attendance, **and** he is
24 concerned with **getting** this baby out **as**
25 expeditiously as possible, I'm **certain**, **so is**

the nurse, but it is the doctor who, at this point, as to determine whether or not the **baby** is going to fit **through** vaginally or whether he **has** to do a Cesarean section.

Now, or whether he should have done a Cesarean section prior to this point in **time**.

Well, from the records, it was apparent that: Dr. Choi felt that the vaginal route **was** going to be an appropriate route, **and** at 3:20 in the morning, I believe they went into the delivery room **and** he **had** the anesthesiologist administer a general anesthetic,

Now, the nurse **is** there to **assist** Dr. Choi and to assist Dr. Reyes, **if** Dr. Reyes needs assisting.

She has to **have** the instruments ready and she has to get the forceps ready and she has to get warm water **and** towels ready, and she has to have scissors and sutures ready, all kinds of things, suction devices ready.

It is the obstetrician that is delivering this child, At 3:20 in the morning, the general anesthetic is given, because Dr. Choi felt that the baby was ready to be delivered.

In fact, the **baby** wasn't ready to be

1 delivered, and apparently, because Dr. Choi
2 allowed the patient to wake up and push **some**
3 **more**, push **the** baby **further** down into the birth
4 canal, and then finally he decided that he
5 could now deliver the baby.

6 **So** he had a **second** general anesthetic
7 given, and finally delivered the baby, and with
8 the use of **forceps** as you saw, delivered the
9 **baby's** head finally, and subsequently,
10 resuscitation took **place**.

11 **So** from the time that he **was** going into
12 the delivery room, approximately 3:20 when the
13 general anesthetic was given, **Nurse**
14 **Gerhardstein** or any nurse, the situation is so
15 critical at this time, **you've** got to get the
16 baby out.

17 Whether you listen for heart tones **at**
18 this point in time or record the heart tones at
19 this point, It Isn't going to make any
20 difference. You have got to get the baby out
21 **as** quickly as possible and **as** atraumatically **as**
22 possible.

23 At this point, even a Cesarean section,
24 **had** it been done, probably would not have been
25 -- probably would not have gotten the baby out

1 any sooner, at least in the judgment of Dr.
2 Choi, but the nurse, at this point in time, did
3 all she was asked to do.

4 I didn't find that there was any, if you
5 will excuse the expression, breech of standard
6 of care.

7 Q Okay, You have experience in practicing
8 in community hospitals, have you not?

9 A Well, I have -- well, yes, I have,

10 Q Okay, Based upon your experience, do you
11 have an opinion with respect to what is the
12 role and standard of care of the hospital in
13 labor and delivery, if any, in 1974?

14 A Well, hospital is a vague term,

15 Q I am talking about the hospital as such,
16 not the nursing care and not the physicians,
17 but the hospital.

18 A The hospital?

19 Q If you set --

20 A The hospital is a facility, a building,
21 and it is administered by administrators who
22 are generally not physicians.

23 It comes under the auspices of a board of
24 trustees who are also nod generally physicians,
25 although they may be.

2 It comes under -- I believe they have to
3 provide facilities, adequately equipped and
4 staffed to allow the doctor, in the ease of
5 obstetrics and gynecology, for the doctor and
6 nurses to perform their duties, and that is to
7 deliver a lady in labor in as nice a health
8 environment or proper health environment as
9 possible.

10 So I think that: that really, their
11 standards of care are simply to provide the
12 equipment necessary with which the doctor and
13 nurses are able to function.

14 Q Okay. And what is the role of the
15 obstetrician as it would have been in 1974 with
16 respect to labor and delivery?

17 A The standards of care of the
18 obstetrician?

19 Q Yes, what's the role of the obstetrician
20 in relationship to the mother and the child?

21 A Well, there are several, First of all,
22 he has got -- he has to be able to deliver
23 babies, I think that's paramount. We has got
24 to be able to recognize a high risk situation
25 and in this instance, even in 1974, a breech
presentation is a risky situation,

1 It **is** not risky for the obstetrician, it
2 is risky for the mother and the **baby**, so it **is**
3 a high risk situation.

4 I think that he has to have the
5 capabilities of performing a Cesarean section,
6 certainly within **20** to **30** minutes. That means
7 that the equipment has to be there, and that
8 **means** an anesthesiologist has to be available
9 that quickly.

10 There **has** to be **nurses** to assist in the
11 operation, they have to **be** there. I think that
12 laboratory services have to be there, **as** far as
13 blood, necessary for blood transfusions, fresh
14 frozen plasma in **1974** would have to be there on
15 a 24-hour basis,

16 I think in the community hospital, I
17 think that the standards for the obstetrician
18 ought to include consultative and transfer
19 agreements. In other words, he ought to be
20 able to have consultants either as far **as**
21 neonatology, the ability to handle a newborn
22 with great expertise or perhaps **consultation**,
23 **perhaps even with** one of his colleagues, and
24 certainly transfer of either the mother and/or
25 the baby on a moment's notice to a hospital

1 that perhaps is somewhat better staffed, in
2 order to handle the **problems**.

3 Those are the standards I think that to
4 practice obstetrics in a hospital and for the
5 obstetrician, I think those are the standards.

6 Q Thank you,

7 Have you **been** able to formulate an
8 **opinion as** to why Eric **Hawkins** is brain damaged
9 **and** when it occurred?

10 A **Yes**.

11 Q And is that **based upon reasonable** medical
12 certainty **and** probability?

13 A If **probability** means what I think it
14 **does?** more than likely, **yes**. I **definitely** have
15 **an opinion as** to this unfortunate situation.

16 Q Would you state for: the jury what your
17 understanding is, **based upon reasonable** medical
18 certainty **and probability** as you understand it?

19 A I **think** that most **of** the labor, until the
20 mother went into the delivery **room**, I believe
21 that the **baby**, although I have **no way of**
22 **knowing**, but I believe that that **baby was**, and
23 it's my opinion, that that baby **was** in good
24 shape.

25 I think that the baby was **doing well --**

MR. WEISMAN: Objection.

THE COURT: Overruled.

A -- as evidenced by the heart rate monitoring of the nurses,

I think that when the first anesthetic was given at 3:20 in the morning, it was given because I believe Dr. Choi saw the buttocks coming through the vagina, and that, if you remember the diagrams I showed you, means that the hips and the abdomen was deep into the vagina.

As you know, the symphysis pubis, that pubic bone and sacrum, and the ilium that surrounds it, now, the compression of the baby's abdomen and the baby's breech part is being -- compression is going on.

I believe that the cord is being stretched at this period of time, and I believe that the circulation in the umbilical cord, because of the pressure against the baby's body and pressure against the maternal boney pelvis, I think that the circulation and oxygenation is being compromised to the baby.

I think that for a certain period of time, during this first anesthetic, that this

1 in fact happened. The **baby** had a deprivation
2 of oxygen.

3 Then I think that the anesthetic had worn
4 off. I think that if I am not mistaken, the
5 **baby** seemed to have gone up in position in the
6 mother's pelvis, and perhaps circulation **came**
7 back a little bit. Perhaps the baby recovered
8 a little bit from this lack of oxygen episode
9 or deprivation of oxygen episode, and then a
10 second anesthetic **was** given,

11 First of all, **first**, before that **second**
12 anesthetic was given, the patient **was asked** to
13 push again, and by pushing again, and by
14 pushing, the buttocks was in the pelvis again,
15 and the same compression occurs, and again, a
16 relative cut-off, if not a complete cut-off of
17 circulation up through the umbilical cord which
18 is the only **way** the baby **is** getting any oxygen
19 happens again.

20 **This** time, however, the second anesthetic
21 is given as Dr. Choi feels now he can deliver
22 the **baby**, and time goes by.

23 First, the legs, which are straight up on
24 the baby's body have to be brought down and
that takes time.

1 The baby's body has to be pulled down and
2 that takes time. I can often be traumatic **a5**
3 evidenced here, We saw evidence of bruises,
4 black **and** blue marks on **the** baby's buttocks
5 from pulling.

6 Then **the** chest of the baby **has** to come
7 down into the vagina, if you will, and out of
8 **the** vagina, and then the arms --

9 The arms **have** to be brought down.
10 **Sometimes the** arms can be brought down **very**
11 easily and sometimes the arms can be **way** up
12 high **and** they have to be reached for.

13 The humerus, this bone **here**, **has to be**
14 brought down, and sometimes **then** the baby has
15 to **be** spun in **order** to get one shoulder out and
16 spun around to **get** the **other** shoulder. This
17 takes time,

18 Finally, the head now is in the vagina,
19 and all of **this** takes precious minutes,
20 precious minutes that the **baby is without**
21 oxygen, totally without oxygen,

22 The Piper forceps **are** being applied at
23 this point in time, and remember, an unmolded
24 **head**, and this is a difficult, difficult pull,
25 but finally, the Pipers have to be put onto the

1 baby's head, and at this point in time, the
2 baby can actually, because its chest is out,
3 start to breathe, but the head is still inside.

4 There is no oxygen in the vagina there,
5 and the baby is, in essence, if it were to try
6 to breathe, it would undergo smothering, in
7 addition, no oxygen.

8 Finally, the head is delivered several
9 minutes later, and the baby comes out very
10 limp, placid, limp, no tone, not breathing, bad
11 color.

12 The only thing that is there is a heart
13 beat that is less than 100. Moreover, we have
14 learned that the baby suffered a palsy, a left
15 right extremity. It is called Erb's Palsy.

16 This sometimes happens even under the
17 best of circumstances, but very frequently
18 happens in breechs, in breech deliveries, and
19 that's because of the stretching of the head,
20 stretching of the shoulder here, or injury to
21 the arm as you are removing it. It is an
22 injury to the brachial plexus or the nerves that
23 go up underneath -- certain muscles and bones
24 through the armpit, if you will, and these
25 nerves are then damaged and are necessary for

1 arm movement, motor movements of the arm,

2 I maintain that the reason **we** don't see
3 this very frequently is because the baby's
4 generally have *good* muscle tone, and **as** you
5 know, even when the baby is asleep, they have
6 some muscle tone, rigidity,

7 I maintain that that baby **was** so placid
8 and **sa** ill and **so** deprived of oxygen for so
9 long that there was no muscle tone at all, and
10 this allowed **that** injury to **occur**.

11 So I think that **this** baby suffered brain
12 damage because of a lack of oxygen during the
13 delivery **process**.

14 Q And in your opinion based upon reasonable
15 medical certainty and probability, do you have
16 an opinion **as** to when that was permanent?

17 A I think it was permanent during the
18 delivery **process**. I think that there is
19 **evidence, definite evidence as late as of**
20 **October, 1986** evidence^p that a lack of oxygen
21 to the **brains of** babies for eight minutes,
22 which apparently happened in this situation,
23 **can** and does cause permanent brain damage,

24 I see no reason to believe otherwise that
25 **this** is -- that this isn't the case that

1 happened here.

2 MR. WEISMAN: Objection.

3 THE COURT: Overruled.

4 Q Dr. Horwitz who testified on behalf of
5 the plaintiff referred to a book that he read
6 in between when I deposed him and when he
7 testified that -- hot off the presses --
8 Neurology of the Newborn, and have you had an
9 opportunity to review the passages that discuss
10 the length of time that are involved in causing
11 permanent injury with respect to hypoxia --

12 MR. WEISMAN: Objection.

13 THE COURT: Overruled.

14 Q -- or asphyxia?

15 A Yes.

16 Q Could you explain for the jury what we
17 are talking about in this book as opposed to
18 what Dr. Horwitz was discussing?

19 A Well, if this is the passage that I, in
20 fact, reviewed, what Dr. Horwitz was
21 discussing --

22 Q It is marked in there. You don't have to
23 read it, but you can reference it.

24 A There is, first of all, a textbook, at
25 least as they are published now, they are a

1 compendia of articles, research articles, and
2 usually the author of a textbook is really an
3 editor.

4 He asks a bunch of experts in the field
5 to write chapters on various subjects and to
6 put it together and get a textbook which is
7 probably the best way to do it, because no one
8 individual is that experienced to write an
9 entire textbook about a subject,

10 In this situation, a gentleman wrote a
11 chapter here, and what he said was that
12 asphyxia --

13 MR. WEISMAN: Objection.

14 THE COURT: Overruled,

15 A -- or lack of oxygen, enough to cause
16 heart rate changes, so you know, how much is a
17 lack of oxygen?

18 Well, if you turn off the valve a little
19 bit, you get a little bit of oxygen
20 deprivation. If you turn it off a little more,
21 it is a little more deprivation. Well, now,
22 how do you measure it? They took monkeys and
23 they constricted the umbilical artery and they
24 got so there was a diminished amount of blood
25 flow, oxygenation, and they got a pattern of

1 heart rate, what they call late decelerations,

2 They got late decelerations, and in the
3 passage, it said that it took quite a long time
4 for nervous system damage to occur, if you have
5 hypoxia or asphyxia, enough to cause late
6 decelerations.

7 A baby that's undergoing the stress of a
8 lack of oxygen, one of the very first things it
9 does, it has to -- has a decreased heart beat,
10 and then it comes back, decreases, and comes
11 back and it's being deprived of this oxygen.

12 It responds, and these are late
13 decelerations as a measuring device here, and
14 it took quite a while, perhaps 30 minutes or an
15 hour for permanent brain damage to occur --
16 certainly not just a few minutes, six or eight
17 minutes,

18 I don't believe that this is the
19 situation that transpired here.

20 Q And why not?

21 A Because of the condition --

22 MR. WEISMAN: Objection.

23 THE COURT: Overruled.

24 A -- of the baby and because of the length
25 of time of squeezing or asphyxia, if you will,

1 or hypoxia or anoxia. All of these terms are
2 used to describe a situation where the baby
3 isn't getting any oxygen.

4 I think a significant length of time, at
5 least from 3:20, and perhaps with a little bit
6 of time period there, the baby may have
7 recovered partially, but may not have recovered
8 partially,

9 I think again, with another pushing, we
10 have 30 minutes, 30 minutes of irrefutable
11 diminishment, if you will, diminishing oxygen
12 to that baby, and I think that it's not this
13 type of experimental design at all -- it's a
14 real life unfortunate experiment, and that baby
15 was brain damaged during this delivery process,
16 during this 30-minute period of time,

17 Q What, if any, significance is there with
18 respect to the prolonged second stage of the
19 one hour and fifty minutes -- what's that
20 indicative of?

21 A Well, the first thing it indicates to me
22 is that the baby is too big for the pelvis.

23 Well, I guess I am proven wrong in that
24 the baby did come through the pelvis and maybe
25 not proven wrong -- maybe I'm right. The baby

1 **came** through the pelvis and injured, really
2 injured badly.

3 And for an hour and fifty minutes to go
4 with pushing and pushing and trying to yet this
5 baby out, I believe represents pelvic
6 **disproportion, pelvic body disproportion.**
7 That's what it means to me.

8 I think **another** route should have been
9 done, I think a Cesearean section should **have**
10 **been done.**

11 Q Who does the decision making with respect
12 to that?

13 A That would have been tho obstetrician's
14 decision.

15 Q If you would, with the Court's
16 permission, review Dr. Luczek's complete office
17 record for a moment.

18 Could the witness have just a moment,
19 your Honor?

20 I will ask you a couple of questions on
21 that.

22 Okay. Can **you**, based upon that record,
23 render an opinion with respect to the
24 pregnancy, comparing it to normal -- abnormal?

25 A Well, the pregnancy wasn't entirely

1 normal.

2 Q Okay. What, if anything, were the
3 abnormalities, and of what significance were
4 they?

5 A The patient had some bleeding. In
6 pregnancy, that's not normal, not necessarily
7 abnormal, only in that the **vast** majority of
8 women don't have bleeding at pregnancy. ,

9 In this instance, the bleeding **was**
10 treated with Delatutin, a hormonal agent.

11 The patient also experienced some pain in
12 **her lower** pelvis, and **was** thought to have had a
13 bladder infection and was treated with
14 Azo-Gantrisin. That occurred early in
15 pregnancy, although I don't know exactly when, -
16 because I don't believe there is a date there,
17 but at around six months of pregnancy, this
18 patient experienced some swollen glands and **was**
19 complaining of upper respiratory tract
20 infection, bronchitis or pneumonitis, and **she**
21 **was** prescribed some Ampicillan for that, which
22 is another antibiotic and some Tuss-Ornade,
23 which is a combination of an antihistamine and
24 decongestant and anti-cough medicine for this.

25 **So we have** evidence here that there **was**

1 **some bleeding, which could be** a potential
2 problem with **the** placenta, in that it could
3 have had a difficult time implanting or may
4 have separated somewhat or it may be nothing.

5 **We** have a problem here in that the
6 patient may have experienced **a bacterial**
7 infection, and a bacteria can traverse the
8 entire body of **the** mother and certainly cross
9 the placenta and get across to **baby**.

10 **We** have evidence of an **upper** respiratory
11 tract infection, which **can** either be bacterial
12 **or, apparently, it was** thought that **because**
13 Ampicillin was given or viral, and certainly
14 that might have affected the **pregnancy --** might
15 have affected mom or the placenta or the baby
16 at **six months** of time, **so** just from those
17 **records, I can't** assume that. **I don't** assume
18 pregnancy **was** not normal.

19 **Q** Given the **state of** modern knowledge plus
20 science and medicine at **the** time, what effect
21 **would** that medication **have** on the brain
22 development of the child?

23 **A** **Given** what **our** limited -- our limited
24 **abilities, certainly it is** a very imperfect
25 science, medicine, an imperfect art.

1 Prom the medicine she took, I can't state
2 one way or another, She may have had an effect,
3 but I can't state what effect it would be or
4 give a percentage that it may have had an
5 effect.

6 Certainly they could have had an effect,
7 and certainly bacteria or a virus could have an
8 effect much like a Rubella.

9 Rubella is a virus, and you all know
10 about Rubella syndrome. Certainly it is a
11 virus which makes woman feel as though she has
12 got a cold or headachey or cough, but it can
13 devastating to the fetus, so I have no idea,
14 nor can medicine say at this point in time what
15 effect these medicines and/or the diseases or
16 illnesses that she had during this period of
17 time -- how they affected the baby, but they --

18 MR. WEISMAN: Objection,

19 THE COURT: Overruled.

20 MR. ALBERT: Your Honor, I

21 am done with my direct examination of the
22 doctor,

23 ---oOo---

24 (Thereupon, a short recess was
25 had.)

TRIAL #18

TESTIMONY SUMMARY OF
DR. STEVEN KLEIN
December 4, 1986

RE: ERIC HAWKINS

<u>PAGE</u>	<u>LINE</u>	<u>SUMMARY</u>
1656	5	Dr. Klein plays golf with Steve Albert and is happy to review cases for him.
1663	5	The obstetrical nurse needs to know how to examine the mother and the fetus to determine the status of labor,
1663	13	The obstetrical nurse needs to be able to administer medications prescribed by the doctor.
1663	20	The obstetrical nurse needs to be able to assist the doctor as far as delivery is concerned and to assist in the resuscitation of the infant should it be necessary.
1665	11	The nurse must be in a position to do whatever is necessary if the apgar is 1 at one minute if the obstetrician and anesthesiologist are busy with the mother. If the anesthesiologist or the obstetrician are available then the nurse must act as an assistant rather than the main resuscitator.
1667	12	If nurse Gerharstein monitored Mrs. Hawkins' labor at intervals of 30 minutes during the first stage of labor and 15 minutes during the second stage of labor and Dr. Choi checked the fetal heart and monitored it in the interim, and further that at the time of delivery if she noted to Dr. Choi that there was a 3 minute period of time that passed in the efforts to deliver the head and that she advised at a 5 minute period of time and that she made efforts to obtain a fetal heart rate during the final 30 minutes before delivery but was unable to obtain it and that she advised Dr. Choi of that fact and lastly that she suctioned the child's mouth after delivery and suggested a hot and cold bath to shock the child's system and that otherwise she merely carried out orders of the obstetrician then, she did not deviate from appropriate standards of care.
1668	3	Mrs. Hawkins came to the hospital at 2:30 p.m. on November 8th and was not in labor. It was known that she had a breech presentation and Dr. Choi suggested pelvimetry be obtained. Her pelvimetry was border lined-it wasn't a very spacious pelvis-she had delivered a 6 pound 11 ounce child in the past through her pelvis.
1669	1	At 4:30 p.m. Dr. Choi put her into labor with pitocin to prevent infection.

1669 16 It was a precarious situation to stimulate labor with pitocin.

1670 23 It took 6 hours with pitocin to completely dialate the cervix-
that is slow-it is called dysfunctional labor.

1671 1 The active phase of labor (from 3-4 centimeters to fully
dialated) should be much more rapid particularly in a woman
who has delivered a baby before.

1671 3 She was proceeding at 1 centimeter an hour and should have been
proceeding atleast 1.4 centimeters an hour even with the breech
presentation.

1671 18 From complete dialation until delivery was accomplished, took 1
hour and 50 minutes - this is an extremely long time.

1672 2 All of these factors show that the pelvis was disproportionate
and that the baby was going to have a very difficult delivery
through the vagina.

1673 1 Dr. Choi is the obstetrician at 2:00 a.m., is the one that must
determine whether the baby is going to fit through vaginally or
whether a Cesarean section is necessary,

1673 25 At 3:20 am., Dr. Choi felt the baby was ready to be delivered-
in fact, the baby wasn't ready to be delivered and he allowed
the patient to wake up and push the baby down further into the
birth canal.

1674 23 In Dr. Klein's opinion, even a Cesarean section at this point
would not have gotten the baby out any sooner and the Dr.
believes that the nurse did all she was asked to do.

1676 9 A hospital must provide the equipment necessary with which the
doctor and nurses are able to function.

1676 20 The obstetrician's standard of care is to be able to deliver
the baby, to recognize a high risk situation, and must have the
capability of performing a Cesarean section within 20 to 30
minutes.

1677 16 At a community hospital, the standards for obstetricians should
include consultative and transfer agreements - the ability to
handle a newborn with great expertise and transfer the baby at
a moment's notice to a hospital somewhat better staffed to
handle problems.

1683 11 Dr. Klein believes that Eric Hawkins is brain damaged because
of a lack of oxygen during the delivery process.

1683 17 The brain damage was permanent during the delivery process.




1683 24 A lack of oxygen to the brain of babies for 8 minutes causes

permanent brain damage and this the doctor believes occurred in the Eric Hawkins' delivery.

- 1687 9 The doctor believes the 30 minutes of irrefutable diminished oxygen to the brain to the baby during the delivery process caused the brain damage.
- 1687 21 The prolonged second state of labor (the 1 hour and 50 minutes) indicates that the baby was too big for the pelvis.
- 1688 8 A Cesarean section should have been done.
- 1688 13 The decision to do a Cesarean should have been the obstetrician's.
- 1689 5 In reviewing the pregnancy records of Dr. Luczek's, it is noted that the patient had some bleeding during pregnancy which is not necessarily abnormal, but the vast majority of women don't bleed. Mrs. Hawkins also had some pain in the lower pelvis, thought to have been a bladder infection. She also experienced some swollen glands and complained of an upper respiratory tract infection and was given ampicillan.
- 1690 1 With the evidence of bleeding there could have been a potential problem with the placenta. The patient may have also had a bacterial infection which can transverse the body of the mother and cross the placenta to the baby. The evidence of the upper respiratory infection may have effected the pregnancy.
- 1690 1 The medication she took could have had an effect but he cannot give a percentage that it may have had an effect.

CROSS EXAMINATION BY GEORGE STUHLDTREHER

- 1692 19 Dr. Klein did not read Dr. Choi's deposition.
- 1693 2 Dr. Klein did not know that Dr. Choi testified at the arbitration hearing either.
- 1693 13 Dr. Klein was not aware that Dr. Choi testified from the witness stand in the trial of this matter either.
- 1694 15 Dr. Klein and Steve Albert belong to the same country club and are personal friends.
- 1694 24 Steve Albert did not tell Dr. Klein that Dr. Choi testified that the cord was compressed around the baby's body. - Dr. Klein learned that from his knowledge of breech births.
- 1696 6 Dr. Klein's opinion is that the baby came out extremely ill and sick due to a lack of oxygen, and the only way that that could have happened was by cord compression.

- 1699 2 The two anesthetics, tenthrenen and nitrus oxide cross the placenta and can add to the baby's depression or lack of the baby to respond quickly and to breath on its own.
- 1699 22 The fact that Dr. Choi testified that the cord was lose around the baby and that the there was no cord compression does not change Dr. Klein's opinion. - Dr. Klein still feels that there was cord compression.
- 1781 6 The lack of oxygen to Eric occurred within a 30 minute time frame before the baby was delivered.
- 1705 4  Dr. Klein is of the opinion that 90% or more of infants with apgar scores of 0-3 at five minutes can recover without III effects.
- 1705 25  Dr. Klein admits that while he believes that Eric had brain damage at birth, he ~~does not know whether 1% or 100%~~ *of (the) 100% of the* entire brain was damaged at birth.
- 1706 4  He is not an expert in determining when brain damage is permanent or not.
- 1708 21 Dr. Klein disagrees with Dr. Horwitz's opinion that there was no brain damage-permanent brain damage-at the moment of birth of Eric.

CROSS EXAMINATION BY HARLEY MCNEAL

- 1709 13 There were several occasions throughout Mrs. Hawkins' hospitalization that Dr. Choi should have done a Cesarean section.
- 1710 24 The two advantages to doing a Cesarean section include that the baby can be delivered quickly before it suffers cord compression and anoxia and it avoids the trauma that breech babies sometimes undergo.
- 1712 2 In a vaginal delivery where there is cord compression, not only is there oxygen deprivation, but the forceps squeezing the baby's head can cause a problem.
- 1712 9 It is the obstetrician who determines the type of anesthesia to be used.
- 1714 23 If Dr. Klein had seen the buttocks already showing beyond the vagina, Dr. Klein probably would have chosen to push the baby back up and do a Cesarean section.
- 1716 21 In 1974 bag and masking was a choice of resuscitation especially where people feel uncomfortable about an endotracheal down a little infant.
- 1717 6 The dangers of an endotracheal intubation include injury to

- vocal cords, injury to larynx, hemorrhage, damage to bronchus.
- 1719 21 The use of demerol would be additive to a lack of oxygen caused by the umbilical being squeezed.
- 1720 6 The anesthesiologist is directing his attention to the mother to make sure she is well oxygenated. The anesthesiologist must resuscitate the baby by establishing an airway.
- 1723 8 While Dr. Reyes could have considered the use of bicarbonates, Dr. Klein feels that the resuscitation with the bag and mask was probably the safest approach, and that is exactly what Dr. Reyes did.

CROSS EXAMINATION BY FRED WESMAN

- 1734 25 Dr. Klein's report is dated ~~May~~ 28, 1986.
- 1735 10 Dr. Klein was first contacted on ~~May~~ 22, 1986 by letter from Mr. Albert-6 days before his report.
- 1736 2 Dr. Klein has reviewed three or four other cases from Mr. Albert.
- 1736 8 Dr. Klein has never testified for any injured patients.
- 1736 19 * Dr. Klein knows of no genetic or chromosomal defect that would be suggestive of or caused Eric's brain damage.
- 1737 18 * The doctor does not believe that there is any evidence of infection that relates to the brain damaged Eric Hawkins.
- 1739 5 * There is no evidence to suggest interuterine growth retardation to cause Eric's brain damage.
- 1739 15 * ~~There was~~ no chronic condition in during Mrs. Hawkins' pregnancy that is related to Eric's brain damage.
- 1739 19 * There is no evidence of placental insufficiency in this case.
- 1741 23 The standards during the second stage of labor from complete dialation to birth require the taking of the fetal heart rate every 15 minutes.
- 1742 20 Dr. Klein acknowledges that the nurse's notes record heart beats every hour and that this is substandard recordation of the fetal heart rates.
- 1745 24 Between 3:20 a.m. and 3:50 a.m. an acute asphyxia episode occurred.
- 1749 23 * When asked what percentage of oxygen was lost or deprived at 3:20 a.m. or 3:50 a.m., Dr. Klein could not do that.

- 1750 * 8 All Dr. Klein knows is that between 3:20 a.m. and 3:50 a.m. there was a significant lack or diminution of oxygen but he cannot quantitate it any better,
- 1751 * 6 The doctor admits that after Eric was born he was asphyxiated and severely depressed,
- 1751 * 24 The doctor admits that if a baby is asphyxiated at birth that he will become more asphyxiated if he is not given adequate resuscitation.
- 1752 * 6 The doctor claims that he can state with medical certainty whether the lack of oxygen occurred within the womb or afterwards-he was then cross examined based on his report where he stated that he could not state with any medical certainty where the lack of oxygen occurred.
- 1757 * 1 Dr. Klein believes that the resuscitation by Dr. Reyes in terms of bagging and masking the baby was the best that he could do under the circumstances and he thinks that it was a good method of resuscitation-he does acknowledge that he is not an expert however in perinatal resuscitation.
- 1754- "Not all THE
that Bad" - THE
STANDARD for CARE,
RESCUSC.
- 1761 * 21 The doctor acknowledged that it is customary to look to the anesthesiologist to do the resuscitation at Mt. Sinai Hospital.
- 1762 * 7 The doctor expects that the hospital staff was reasonably skilled and experienced people to do resuscitation.
- 1763 * 16 Bedford Municipal Hospital was ill equipped to handle breeched births.
- 1764 * 8 The doctor admits that Bedford Hospital did not have the means to deal with the breech delivery and to handle obstetrical emergencies.
- 1766 * 23 The doctor admits that the hospital must supply the facility and make sure its physicians are well qualified.
- 1767 * 9 If the hospital is not equipped to handle asphyxiated or severely depressed children, it should not be handling obstetrics.
- 1769 * 24 The doctor admits that in his letter of May 28, 1986 he stated that Bedford Hospital was a low risk hospital, ill equipped and unprepared for potentially catastrophic obstetrical occurrences-this is in contravention of what Mr. Pollock, Bedford Hospital Administrator stated that the hospital held itself out to handle high risk pregnancies.
- 1770 * 24 Sodium bicarbonate should have been used on Eric to counter act the acidosis. *It was the standard.*
- 1771 * 11 When sodium bicarbonate is not given, the baby becomes more acidotic.

1775 15 At 7:30 Eric's bicarbonate level was 9 and for **it** to be normal **it** should be in the 20s-this was indicative that the baby did not have a lot of base reserves with which to fight the acid and this was a protraction of the acidotic state.

1776 1 The doctor admits that the longer the acidosis is prolonged and the acidotic state continues, things continue to get worse.

TUB BATH
1781 3

If the nurse put Eric in a cold tub bath, that was not appropriate.

1783 4 The doctor agrees that cold causes the acidosis to become worse, and its standard practice dictates that one does not use a tub bath.

REDIRECT EXAMINATION BY STEVE ALBERT

1789 1 Dr. Klein believes that 94% of cases that do not have residual brain damage are cases where the patient did not have permanent brain damage when they were resuscitated to begin with.

1790 3 Dr. Klein is of the opinion that Eric suffered brain damage in utero.

1793 21 **It** was the obstetrician's responsibility to surround himself with people who were expert in neonatal resuscitation or to have transferred the mother to a place where she was able to receive expert neonatal resuscitation.

1794 9 Dr. Klein meant by the words "ill equipped at Bedford Hospital", not that there wasn't proper equipment at the hospital, but that there was not the immediate availability of a perinatologist or neonatologist and the obstetrician was the one responsible for having those specialists available.

1791 1 The obstetrician is the one that is responsible to **communicate** with the patient as to what is available and what is not available and what is not available in the level of care that he can effectively provide at a particular hospital.

1799 18 **If** Eric was only placed in some warm tap water, the doctor does not believe that that had any effect on Eric as to his brain damage.

1806 16 Dr. Klein believes that the permanent brain damage occurred intrauterine to Eric.

1809 22 The doctor does not believe that the resuscitation was inadequate, and he believes that the permanent brain damage occurred in 6-8 minutes while **it** was deeply pressed into the pelvis.

1 her employment problems.

2 Now, my question for you --
3 fairly stated, gentlemen?

4 MR. McNEAL: Yes,

5 MR. WEISMAN: Yes, your
6 Honor"

7 THE COURT: You've all
8 read the letter?

9 MR. McNEAL: Yes.

10 THE COURT: We, of course,
11 would prefer that you remain, I suppose,
12 for very obvious reasons. You've heard
13 all the evidence at this point.

14 It's my judgment, although I do
15 not know, that we could very well go
16 perhaps another week, A guess.

17 We have not heard from either of
18 the two -- the other defendants in this
19 case.

20 There may also be more testimony
21 for the plaintiff in the form of
22 rebuttal, and it could very well take us
23 through the balance of this week and even
24 into the following week.

25 Now, have you had any contact

with your employer over the holiday weekend to determine what your status is going to be if you continue missing work?

JUROR NO. 8: I went to work Wednesday after we were dismissed and I talked to my supervisor, he said there is no problem,

THE COURT: Keep your voice up so we can hear you.

JUROR NO. 8: There is no problem in me missing the time, The only problem is me missing the money,

THE COURT: You're missing Mr. Green, as we say?

JUROR NO. 8: Yes.

THE COURT: The star witness, Mr. Green. Oftimes lawyers tell the Court, when they want a continuance, the star witness is not available, Mr. Green. In other words, he hasn't received his fee yet.

Just an effort at humor here,

JUROR NO. 8: Yes.

THE COURT: Poor. I could in fact call your employer and urge him

1 to pay you. I've done this in the past.
2 I don't **know** whether that would put you
3 in a better status or a poorer status.

4 What do you think?

5 JUROR NO. 8: **Well, I've**
6 only been working there **two** months and I
7 have **never** met the owner of the company.
8 This is the person to whom you would
9 probably have to **speak** with. He's vary
10 eccentric, and everyone there that I've
11 mentioned my problem to, they just sort
12 of laughed, and I sort: of **got the** opinion
13 myself that, no, I wouldn't be getting
14 paid, even if you **did** call.

15 **You** know, I **don't** want to
16 jeopardize my job.

17 THE COURT: I understand
18 that.

19 Gentlemen, does anyone wish to
20 **ask** any questions of Miss Melnar at this
21 point?

22 Fred, do you have any?

23 MR. WEISMAN: I have none,
24 your Honor, I understand her problem.

25 THE COURT: **Steve** or Ren?

MR. KELLER: I don't
believe we have any questions.

THE COURT: George?

MR. STUHLDTREHER: I have no
questions,

THE COURT: Marley?

MR. MCNEAL: I'm just sorry
to let you go, but I understand what the
situation is.

JUROR NO, 8: I don't really
want to leave, I would like to hear out
the case.

THE COURT: I believe that
you would, Pat, and we would very much
like to have you. I certainly do not
want to cause you an economic problem
here.

As we indicated when we started,
we did, I think clearly indicate to the
jury that we expected that *the* case could
very well go a fairly long time. I don't
have any idea how long, and you never do.

Lawyers always tell me, "Judge,
it will take two days," And that means a
week for me.

1 If they say a week, that means
2 two weeks, and so forth, because we do
3 have two dockets. It isn't their fault,
4 but it's basically my own. We have two
5 dockets, and I'm running between both of
6 them,

7 I guess that we will just have to
8 let you go, eat, if that's your desire.

9 MR. KELLER: Your Honor?

10 THE COURT: Yes?

11 MR. KELLER: Perhaps the
12 Court could inquire of Mrs. Melnar a
13 little more to see how she feels a call
14 from the Court would affect the employer?

15 As I've stated to the Court and
16 counsel before, I think it's aggregious
17 that this situation occurs, and I would
18 just as soon, if Mrs. Melner believes it
19 would not be detrimental to her position,
20 that the Court should give her employer a
21 call,

22 THE COURT: I think there
23 is no question that you may stay, that:
24 the boss is not demanding that you
25 return, but the problem is, he is not

1 paying you for your service,

2 Unfortunately, there is no rule,
3 no law, nothing at all that I can say to
4 this individual, to insist that he pay
5 you.

6 I have in the past, on more than
7 one occasion, called employers and urged
8 them to pay our jurors, and some have and
9 some have basically, you know, made some
10 unkind comment to the Court. I have kept
11 a list, of course.

12 No, I'm just teasing. There just
13 isn't anything in the law that would
14 allow me to insist: that that be done.
15 It's up to them, your employer, like
16 yourself, and all of us in this courtroom
17 are citizens to this community, and it's
18 each of our obligations, if you take the
19 opportunity to vote, as you have -- I
20 don't know whether yaux employer has --
21 if you take the opportunity to vote, you
22 have indicated to all af us that you are
23 a caring citizen of our community and you
24 have the possibility of serving or a
25 jury.

To serve on a jury and to be picked on a jury, in my humble view, is the highest service that any individual can return to our community, and it's also a great, great honor, I believe, be it a criminal case or a civil case, there just isn't anything other than service perhaps to one's country. I would put service on the jury in the same realm, I truly would, because without jurors such as yourself and your fellow jurors, we simply cannot do our process here, and that's what makes America such a great country. This is not the case, unfortunately, in some countries in Europe.

Our system is one that allows citizens, ordinary people like yourself to come together, hear the evidence and be the judges of the fact and to return a just verdict, and beyond that, I cannot make your employer pay you.

I can in fact call him, and if you would like me to do that and want to stay on, and hope, you know, that would

1 make a difference, you know, you have to
2 assume, first of all, he'll say, "No."

3 JUROR NO. 8: Right,

4 THE COURT: Now, where are
5 you? You're going to go broke. You
6 can't pay the mortgage, you can't buy
7 food, this and that,

8 The \$10 a day I guess is not
9 sufficient, that we pay.

10 JUROR NO. 8: No.

11 THE COURT: Do you want me
12 to call him and urge him to pay you or
13 would you prefer that I just simply
14 release you from your service? Tough
15 decision.

16 JUROR NO. 8: Yeah. I would
17 prefer if you called him.

18 THE COURT: All right, I
19 will do that,

20 Can you tell me his name and the
21 phone number?

22 JUROR NO. 8: David
23 Maclaren, M-a-c-l-a-r-e-n.

24 THE COURT: M-a-c--

25 JUROR NO. 8: --l-a-r-e-n.

1 THE COURT: And the phons
2 number?

3 JUROR NO. 8: 461-2000.

4 THE COURT: All right. I
5 will do that immediately. Why don't you
6 go to lunch then and come back at 1:00
7 and I'll let you know how my efforts have
8 gone.

9 JUROR NO. 8: Okay.

10 THE COURT: Now, if in the
11 event he says, "We can't pay her because
12 we're a small little company," then I'll
13 basically, if you wish to be relieved,
14 we'll allow you to be relieved.

15 JUROR NO. 8: Okay.

16 THE COURT: All right?

17 JUROR NO. 8: Thank you very
18 much.

19 THE COURT: All right.

20 David, do you want to take Pat
21 out, please?

22 All right, gentlemen? 1:00.

23 ---oOo---

24 (Thereupon, a luncheon recess was
25 had from 12:05 p.m. until 1:00
p.m. at which time, all parties
being present, the following
further proceedings were had:)

1 MONDAY, DECEMBER 1, 1986

2 AFTERNOON SESSION

3 ---oOo---

4 THE COURT: Fred, cross-
5 examine --

6 MR. WEISMAN: Thank you,
7 your Honor.
8

9 CROSS- EXAMINATION OF DR. STEVEN M. KLEIN
10

11 BY MR. WEISMAN:

12 Q Dr. Klein, I questioned you previously on
13 deposition, did I not?

14 A Yes.

15 Q And all counsel were present at that
16 time, sir?

17 A Yes, sir.

18 Q And when were you first contacted by Mr.
19 Albert about this case?

20 A I do not recollect.

21 Q All right.

22 A I don't remember what date it was.

23 Q Well, as I see it here, your report which
24 you submitted is dated May 28th, 1986?

25 A Right.

1 Q Can you tell or does it refresh your
2 recollection at all as to whether it was a week
3 before, a month before, or two months before or
4 what?

5 A It probably was several week5 before.
6 Again, I don't have -- excuse me.

7 Q Feel free to refer to any of your records
8 to make sure you give us the most accurate
9 answers you can on dates or anything else.

10 A May 22nd, 1986 I received a letter from
11 Mr. Albert asking me to review the enclosed
12 materials which included testimony of Dr.
13 Edelberg and Dr. Horwitz and the hospital
14 records of Bedford Hospital.

15 Q All right.

16 Sir, that would be six days before **your**
17 report. Did he speak to you about it prior to
18 the time that he wrote the letter?

19 A I don't have any notation that he did. I
20 don't remember.

21 Q So **you** mean the first contact might have
22 been just a letter that you received from him
23 on May 22nd, sir?

24 A **Yes.**

25 Q Okay. Had you reviewed some other

1 matters for Mr. Albert before?

2 A In the past, I believe I have reviewed
3 three or four cases for him.

4 Q How many injured patients have you
5 testified for, sir?

6 A Have I testified for?

7 Q Yes.

8 A I don't think I have ever testified for
9 any injured patients.

10 Q Tell me, first, let's see if you and I
11 can agree on a few things, Doctor.

12 You agree with me, here, that there is no
13 evidence in this case of any genetic or
14 chromosomal or inborne defect that would be
15 suggestive here of causing this baby's, or this
16 plaintiff, Eric Hawkins' brain damage?

17 A I don't know of any.

18 Q Yes.

19 A That's not to say there might not have
20 been, I just don't know of any.

21 Q Doctor, let's not talk about the specula-
22 tions though, I want to know what or if there
23 is evidence, You know the difference, don't
24 you, bet'ween speculating, Doctor, and stating
25 what there is evidence about?

1 A Yes, sir.

2 Q Let's confine ourselves, then, to what
3 you, as the professional, have discovered and
4 ascertained based on your extensive study of
5 this matter.

6 Did you study this extensively?

7 A Yes, I did.

8 Q All right,

9 Can you tell us, based upon your
10 intensive investigation whether or not there's
11 any evidence in this case to tell this jury of
12 infection of this baby?

13 A Yes, there were two instances where the
14 baby could have been affected.

15 Q Is there any evidence of infection of the
16 baby that you think relates to the brain damage
17 to this baby?

18 A No.

19 Q That's what we are talking about and what
20 we are trying to find out here, what caused the
21 brain damage to the baby, All right, sir?

22 A I understand that.

23 Q All right.

24 Was there any -- do you understand that
25 there's no evidence of any infection causative

of brain damage to the baby that you can tell this jury about, is that right?

A I don't know if I am understanding the question. I don't think that any infection, perhaps -- I don't think that any infection or infectious agent **was** the cause of Eric Hawkins' brain damage.

Q That's all I am asking.

A That's correct, but I don't know that infection in the past in the mother's early pregnancy might not have been responsible for its brain damage, but I don't think so.

Q All right.

Doctor, I am going to ask you, if you will, to answer my question, though, something about some infection of the mother in the past to be rank speculation, would it not, as it relates to brain damage to Eric Hawkins?

A Yes, sir.

Q For example, asphyxia is a clear producing cause of brain damage that there is evidence of here, is there not?

A Yes, sir.

Q All right.

Was there any evidence, Doctor, in this

1 case to demonstrate or suggest for this jury
2 that there was any interuterine growth
3 retardation of this baby that relates to the
4 brain damage to Eric Hawkins?

5 A There is no evidence of that.

6 Q No. Doctor, is it true that there is no
7 evidence of chronic condition that occurred
8 throughout the pregnancy of Bettye Hawkins with
9 Eric in her womb, that was of a chronic nature
10 and throughout the pregnancy ok for a
11 significant time during the pregnancy that
12 indicates evidentiary-wise that it is related
13 or causative of some brain damage to Eric
14 Hawkins?

15 A No, I don't believe **so**.

16 Q Doctor, is there any evidence of
17 placental insufficiency in this case, some
18 defect in the placenta?

19 A No.

20 Q That is shown by evidence in this case as
21 being attributable or causative in whole ok in
22 part of the brain damage to this child?

23 A NO.

24 Q No. Doctor, there is -- did you ever
25 mention the **word**, bleed, in your report, sir,

1 bleed?

2 A I don't recollect whether I ever
3 mentioned the word, bleed.

4 Q All right.

5 Do you want to check it?

6 A I **did** not mention the word, bleed.

7 Q Did you mention the word, hemorrhage, in
8 your report, Doctor?

9 A No, sir.

10 Q No. Doctor, in your deposition that was
11 taken, your deposition **was** taken September 13,
12 1986, is that right?

13 A That's correct,

14 Q All right.

15 And when all of us questioned you, I,
16 particularly began the questioning, do you
17 recall that?

18 A Yes.

19 Q And at that time, did you mention the
20 word, blood, in your -- bleed, in your
21 testimony there?

22 A No, not to my recollection.

23 Q No. Now, Doctor, how many of us who are
24 born into this world of ours are in breech
25 position, percentage-wise, based on your

1 statistics and knowledge?

2 A About 3 percent.

3 Q About 3 percent, All right,

4 And in this particular case at 3:20 a.m.,
5 the last fetal heart rate was taken on Baby
6 Eric Hawkins **when** he was still in utero, in the
7 mother's womb, is that right?

8 A I can't answer that, It was the last one
9 recorded,

10 Q **Last** one recorded, yes. You are
11 absolutely correct. The last one recorded,. and
12 it was 152, **is** that accurate?

13 A I thought it was **154**. 152, you're
14 correct.

15 Q All right, sir.

16 Now, what are the standards of
17 professional nursing and obstetrical care
18 according to the American College of
19 Obstetricians and Gynecologists as to the
20 recording **and** monitoring of, that is the taking
21 and recording of the fetal heart rate during
22 the second stage of labor?

23 a The second stage of labor **is** the time
24 from complete dilation to the birth of the
25 baby, and that would be every 15 minutes.

1 Q Yes, and that would be true as to not
2 only the taking of it, but of the recording of
3 it, isn't that the standard?

4 A That's the standard.

5 Q Yes. Was that done here by Nurse
6 Cerhardstein? Do you **see** the recordings,
7 notes, that is made every 15 minutes of the
8 fetal heart rate?

9 The record might show Dr. Klein is
10 referring, I assume, to the hospital records?

11 A That's correct.

12 Q All right.

13 A The fetal heart tones, according to the
14 record, labor and delivery room nurses notes,
15 record, showed heart beat recorded at 1:30,
16 2:30 and 3:20. Those were the recorded fetal
17 heart rates.

18 *a* Certainly substandard from the standpoint
19 of appropriate recordation, right?

20 A It was not according to the standard.

21 Q That's right, and however --

22 A I might say that the standards that we
23 are talking about, however, only came into
24 being in late 1974 for nurses at that time.

25 That's just an aside, but nonetheless,

that's --

Q Doctor, those standards were prevalent with respect to obstetrical care, fundamentally, in 1974 and before, were they not, even without the written standards for nurses that later came into force, isn't that so?

A Well, the written standards, as I say, late 1974 --

Q Yes.

A And I would think that the labor floors, the departments of obstetrics, together with nursing in each individual hospital were responsible for establishing protocols and for the recording in early labor and late labor and second stage of labor and **so** forth.

Q , Doctor, there were standards for obstetrics and gynecology issued by your American College of Obstetricians and Gynecologists that date back to 1951, do they not?

A I don't know.

Q You don't. Did you see any from 1962 or '65, the second and third and fourth editions and **so** forth? Have you ever observed those or

1 seen them?

2 A Those are standards for the -- yes, for
3 the obstetrician, but the obstetrical nurse, as
4 such, is all I am referring to.

5 Q I understand, sir, but weren't there
6 standards -- weren't the standards of
7 obstetricians inclusive of establishing what
8 the standards were for nurses to do, and each
9 of those were called manual standards and for
10 obstetrics and gynecology, and not professional
11 nursing standards as such, do you understand
12 what I am saying?

13 A Yes.

14 a Isn't that true?

15 A If you say so. I am not unfamiliar with
16 those early editions, but I know that they
17 existed as early as 1960.

18 Q You aren't suggesting that there weren't
19 any -- I am not talking about written
20 standards?

21 A I am not suggesting that.

22 Q What were the standards in 1974 and
23 before as to how regularly there is supposed to
24 be a recordation of fetal heart rate?

25 a It should have been every 15 minutes.

1 Q So it was substandard, right?

2 A Right.

3 Q Now, however, it may not have been
4 meaningful to cause a problem even though it
5 was substandard, not to record it, that's also
6 true, isn't it?

7 A Yes, sir.

8 Q Because if the fetal heart rates were all
9 normal and everything was fine with the fetus,
10 and the fact it wasn't written, would be a
11 substandard approach for protocol, but. it would
12 not necessarily harm the baby, correct?

13 A Correct.

14 Q All right,

15 Now, at 3:20, however, and before, there
16 was never a suggestion of less than a fetal
17 heart rate or a fetal heart rate that was
18 within the range of normal for that little
19 fetus, correct?

20 A That's correct.

21 Q Now, the question is between 3:20 a.m.
22 and 3:50 a.m. when the baby was born an acute
23 asphyxia episode occurred, is that correct?

24 A Yes, sir,

25 Q All right,

1 During this period, during this period of
2 3:20 a.m. and 3:50 a.m., for whatever reasons,
3 **some** lack of oxygen occurred to baby or fetus
4 Eric, is that accurate?

5 A Yes, sir.

6 Q **As** to when the lack of oxygen began to
7 occur to Baby Eric, you do not know, do you?

8 A Yes, I know when it began to **occur**.

9 Q All right.

10 Then what time **was** it?

11 A 3:20 a.m.

12 Q At 3:20 a.m. it began?

13 A Yes.

14 Q All right.

15 And how do you know that?

16 A I know that because a general anesthetic
17 was given to the mother.

18 Q Well, is there anything that suggests it
19 was 3:20 a.m.?

20 A I'm sorry, at 3:20 -- I apologize. If I
21 may, excuse me.

22 Q Certainly.

23 A Yes, at 3:20 a.m., it is my opinion,
24 because the patient was given a general
25 anesthetic, the first general anesthetic Dr.

1 Choi felt that was the breech, sufficiently far
2 down in the reproductive tract that it could be
3 delivered,

4 General anesthetic was given and it was
5 -- it's at that point in time that I believe
6 that the baby suffered some lack of oxygen,
7 began to suffer some lack of oxygen.

8 Q All right.

9 Is it inevitable when oxygen is given
10 that the baby suffers some lack of oxygen?

11 A I'm sorry.

12 Q Is it inevitable whenever a woman gets a
13 general anesthesia, that the baby suffers some
14 lack of oxygen?

15 A No.

16 Q All right,

17 Are you able to tell us how much lack of
18 oxygen was involved there when the anesthesia
19 was given to the mother?

20 A No, sir.

21 Q Are you able to tell us, in other words,
22 what diminution of oxygen supply took place at
23 any time between 3:20 a.m. and 3:50 a.m. in any
24 quantitative manner?

25 A Yes. At the time that the baby **was**

definitely given the second anesthetic, and it was unable for the breech to retract back into the vagina, in my mind it's irrefutable that there was a diminution of the amount of oxygen to Baby Eric Hawkins, and that diminution, the amount of oxygen increased until the baby actually was born.

Q Yes --

A And particularly, when the baby's head **was** still in the birth canal, and not delivered during that period of time also.

Q Doctor, what I am asking, though, is can **you**, for the folks on this jury, quantitate how much oxygen was the baby deprived of at any given time between 3:20 a.m. and 3:50 a.m.?

Do you actually have a **way** of measuring for this group?

A The condition of the baby at the time of birth and its response or lack thereof makes me suspect that it was deprived of oxygen for enough time to cause brain damage.

Q That's not what I asked you, sir.

What I am asking you, can you quantitate how much oxygen was lost by that baby?

How do you measure oxygen -- liters,

1 Q How do you measure the quantity of
2 oxygen, please, doctor?

3 A The quantity of oxygen is actually
4 measured by the amount of oxygen saturation in
5 the fetal circulation or in circulation.

6 Q Is it a percentage?

7 A It would be a blood test that tells you a
8 partial pressure, actually, and it would tell
9 you in differentiation to partial pressure of
10 mercury -- PO_2 it would be called.

11 Q PO_2 , and what do you -- what's the right
12 question for that, to get the quantity, what
13 amount of PO_2 ?

14 A Yes.

15 Q Can you tell us what amount of PO_2 was
16 diminished from Eric's oxygen supply?

17 A I would say when Eric was born, the
18 amount of PO_2 was virtually zero.

19 Q What's when he was born -- that's at
20 3:50?

21 A Yes.

22 Q Tell me what it was at 3:27?

23 A I can't.

24 Q What it was at 3:29?

25 A I cannot say.

1 Q How about 3:45?

2 A No,

3 Q Doctor, what you know, and all you know
4 is that there is certainly -- certainly was a
5 significant lack or diminution of oxygen
6 sometime between 3:20 a.m. and 3:50 a.m. and
7 that's really all you know, isn't it?

8 A Yes.

9 Q Yes. You cannot quantitate any better
10 than that -- can you? It would be a **guess**,
11 speculation --

12 MR. McNEAL: I object.

13 THE COURT: Overruled.

14 He may cross-examine.

15 Q Isn't that true? It would just be a
16 speculation, correct?

17 A I cannot quantitate that as I sit here.

18 Q Well, then, to quantitate it would be a
19 speculation or guess, correct?

20 MR. McNEAL: To

21 quantitate--

22 MR. ALBERT: You mean not
23 to quantitate?

24 HR. WEISMAN: Withdraw it.

25 Q Now, Doctor, let me ask you this, isn't

it true that after Baby Eric was born, the thing that you know, let's say absolutely, based on this record, or as close as one can get to absolute certainty is that Eric was asphyxiated and severely depressed?

A Yes.

Q You would agree with me on that?

A Yes.

Q That's just as clear as a bell, correct?

A Yes.

Q He needed resuscitation, didn't he?

A I think he was unresuscitatable.

Q Doctor, as a matter of fact, if an individual who is born such as Eric does not get adequate resuscitation, does not get adequate resuscitation, then **his** asphyxia will increase **even** more, won't it?

A You're presuming that he was resuscitatable.

Q No, no. Doctor, isn't it true that if you have an asphyxiated baby at birth, that he will become more asphyxiated and acidotic if he is not given adequate resuscitation?

A That's true,

Q All right,

1 Now, Doctor, you cannot say with any
2 medical certainty whether the lack of oxygen
3 that caused Baby Eric's brain damage occurred
4 within that womb of Bettye Hawkins or occurred
5 afterwards, can you?

6 A Oh, most certainly I can.

7 Q Well, then, Doctor, will you tell me, did
8 you or did you not, in your report of May 28,
9 1986, second paragraph at Page 3, state exactly
10 this, and I am quoting -- tell this jury if I
11 am reading it correctly or wrongfy.

12 "One cannot say with any medical
13 certainty whether the lack of oxygen that
14 caused the ~~brain damage occurred~~ intrauterine
15 (secondary to cord compression, narcotics and
16 anesthesia) or extrauterine (secondary to
17 inadequate resuscitative efforts.)"

18 Did I read that correctly?

19 A That was quite correct.

20 Can I expound --

21 Q No, you cannot. Counsel will ask you and
22 you will have a chance -- he will have a chance
23 to ask you anything he wishes.

24 Did I read that correctly?

25 A That was correctly read.

1 Q Now, Doctor, as a matter of fact on
2 direct examination wasn't a question really
3 asked of you as to what was done by way of
4 resuscitation by Dr. Reyes, was there?

5 A No, sir,

6 Q Why, that's important in this case, isn't
7 it?

8 A I don't believe it --

9 Q You don't think it is? You don't think
10 it is important anymore?

11 A No.

12 Q Since you wrote your report, apparently,
13 it is not important, is that right?

14 Did it become less important after you
15 wrote the report?

16 A If I can expound on that paragraph, I can
17 tell you.

18 Q Just answer it, Either it became less
19 important after you wrote the report and it's
20 more important?

21 A It didn't change my opinion at all.

22 Q Okay. As a matter of fact, you indicated
23 that the resuscitative efforts you thought were
24 not all that bad, that's what you wrote in your
25 report, didn't you?

1 A Not all that bad --

2 Q Yeah. The third paragraph, Doctor,
3 fourth line down to help you?

4 A That's correct.

5 Q Not all that bad -- is that a new
6 standard for medical care? Is that a new
7 standard that's acceptable to give
8 resuscitation, that's **not** all **that** bad?

9 A I am not aware of that being a standard
10 or not the standard.

11 Q No. When a practitioner or any
12 professional administers care to another
13 whether it is resuscitation or anything else,
14 he has to deliver reasonable and safe and
15 acceptable care, **docs** he not?

16 A That's correct.

17 Q Yeah, **that's the** standard, isn't it?

18 A To the best of his ability to perform.

19 Q Yes.

20 A **That's** right,

21 Q And, yes, and he has a duty, **doesn't** he,
22 to provide to his patient, as a professional, a
23 reasonable amount of skill, knowledge and
24 experience, isn't that true?

25 A That's true.

1 Q Because if he doesn't, he is violating
2 the standard of reasonable care,
3 professionally--

4 MR. McNEAL: Objection.

5 THE COURT: Overruled.

6 Q Isn't that true?

7 A I follow your reasoning.

8 Q Do you agree with me too?

9 A I agree with your reasoning,

10 Q All right.

11 Now, Doctor, with respect to the care
12 that should be given where a baby is I Apgar at
13 one minute, you agree, don't you, that that
14 baby first is severely depressed as is written
15 on this chart here, is that correct?

16 A Yes, sir.

17 Q And that he is hypoxic, correct?

18 A Well, hypoxia and narcosis and brain
19 hemorrhaging can all give you the same clinical
20 picture,

21 They call all potentially give you an
22 Apgar of 0 to 3 at one minute, so I will say,
23 yes, severely depressed, hypoxic, and it might
24 not be the situation, but in this situation, I
25 believe it **was**.

1 Q Yes. Well, let's not bring in these
2 possibilities now, because we are talking about
3 what you think about this.

4 MR. McNEAL: I object to
5 that conclusion, if the Court please.

6 THE COURT: I am going to
7 overrule that, Mr. McNeal. Go ahead.

8 Q In your opinion, **was** the baby hypoxic?

9 A Yes, sir.

10 Q Was the baby acidotic?

11 A Yes, sir.

12 Q And was the baby severely asphyxiated, or
13 at least, asphyxiated?

14 A Yes, sir.

15 Q All right,

16 Now, if you don't get breathing
17 spontaneously, especially with a 1 Apgar, isn't
18 it true that you move in promptly to do an
19 endotracheal intubation according to the
20 standards?

21 A There are several who believe that bag
22 masking is a good method of resuscitation and
23 you might want to continue on with it.

24 I am not an expert in perinatal or fetal
25 resuscitation, but in my opinion, I think that

1 bagging and masking the baby as Dr. Reyes did
2 was not improper -- was proper for the
3 expertise that he had as far as infant
4 resuscitation.

5 And I think he did the best he possibly
6 could under the circumstances and I think he
7 was the most expert of those in attendance of
8 Baby Hawkins at the time.

9 Q Doctor, and if you will, rather than give
10 a speech, just answer my question.

11 MR. ALBERT: Objection to
12 the statement of counsel.

13 MR. McNEAL: Your Honor, if
14 the Couxt please --

15 THE COURT: Sustained.

16 Q Will you tell me whether or not,
17 according to the standards, if the baby doesn't
18 breathe spontaneously, whether or not the
19 standards are that an endotracheal intubation
20 is to be done on a 1 Apgar baby?

21 A If there are people in attendance who can
22 pass an endotracheal tube without injuring the
23 baby.

24 Q Doctor, you told us, didn't you, that you
25 are familiar with Greenhill's Obstetrics?

1 A I was familiar that Greenhill wrote a
2 book, Greenhill's Obstetrics.

3 Q Yeah, 1974 edition, the very year that
4 Baby Eric was born, and by the way, if a bag
5 and mask is used and the baby starts to cry or
6 breathe, then no problem, you're home free, you
7 might say. Isn't that **so**, fundamentally,
8 there's nothing more to do, right?

9 A Right.

10 Q Because what you are trying to do is get
11 the baby to breathe, isn't that correct?

12 A That's correct.

13 Q And the problem with it, this is a
14 reference or an adjective used by **some** of the
15 testimony before, and maybe you will disagree,
16 the newborn's lungs are sometimes stiff -- **was**
17 the word used.

18 Is that a word that's acceptable to you?

19 A **Yes**, newborns' lungs are somewhat like
20 uninflated balloons, and with that first little
21 puff, has to inflate that balloon and it
22 becomes easier to expand after that.

23 Q Why is it that an endotracheal tube is
24 the most efficient way to deliver air to those
25 stiff lungs or oxygen to those stiff lungs?

MR. McNEAL: Again, I will
object,

A Most efficient way, it is not a
question--

THE COURT: I will
overrule it. Do you understand the
question?

THE WITNESS: Would you
please repeat: it?

Q Tell the jury about dead space, what your
knowledge of dead space is, please?

A There is an amount of space in the back
of the throat around the laryngeal area. This
is considered dead space. If one were to bag
mask, just put a bag over here and squeeze the
bag to get oxygen into the baby as is done with
mouth-to-mouth resuscitation, for example,
then the oxygen, air and oxygen going into the
baby's lungs would have to pass through that
dead space and would be alluded a little bit by
the dead space, depending on how much dead
space there **was**.

By passing an endotracheal tube into the
trachea, and you bypass that dead space, and
therefore, any air that -- any air and oxygen

2 that you are administering is administered
3 directly into the lungs, bypassing the dead
4 space and therefore is considered more
5 efficient.

6 Q Doctor, as a matter of fact, you have had
7 experience in connection with resuscitation of
8 newborn babies, have you not?

9 A I have.

10 Q However, in your practice as an
11 obstetrician, you serve at Mount Sinai
12 Hospital, is that right?

13 A Primarily.

14 Q Is that a community hospital?

15 A It is considered a hospital that serves
16 the community, yes.

17 Q And as a matter of fact when you have a
18 newborn baby that requires resuscitation,
19 ordinarily you dont' do the resuscitation at
20 all, do you?

21 A That's correct.

22 Q Yeah, and I asked you if you **could** think
23 of any time within the year, for example,
24 before the deposition, that you personally were
25 involved in resuscitation, and the answer is
26 that you --

MR. ALBERT: I object.

Q What's your answer to that?

THE COURT: Overruled.

A I think it **was**, no.

Q So I asked who usually **does** that, and the fact is that there are two people in your association that generally do it where you practice, is that right?

A That's correct,

Q And that would be either the anesthesiologist or sometimes the pediatrician?

A Yes.

Q Right.

A Yes.

Q And the nurse participates in **some way** depending on the situation, is that right?

A Yes.

Q So it certainly is customary to look to the anesthesiologist as you do to do resuscitation for you, right?

A Where I practice, yes.

Q And you expect to have hospital staffing with people who are reasonably skilled and experienced to do the job of resuscitation, isn't that true?

1 A **That's** true with qualification.

2 Q And if that's true, you also expect that
3 they're going to do their job according to
4 reasonable and safe standards for newborn
5 babies so their babies would not be hurt by
6 their work?

7 A If they had been trained and if they're
8 experienced in infant resuscitation, which the
9 anesthesiologists are at Mount Sinai.

10 Q You don't train those anesthesiologists,
11 do you?

12 A NO.

13 Q They have to be credentialed, don't they,
14 to get on the staff, is that right?

15 A **Yes.**

16 Q And they have to be adequate to do the
17 job that they are doing **there**, don't they?

18 A Yes,

19 Q And you talked about a hospital providing
20 a properly equipped staff and properly equipped
21 hospital before in your testimony, did you not?

22 A Well, the hospital serves a limited role
23 in that it chooses the department heads which
24 are physicians and these physicians then must
25 attest to the adequacy of the people who they

1 hire to do the job.

2 Q Absolutely.

3 A That's correct.

4 Q But the ultimate responsibility of that
5 being with the board of trustees, isn't that
6 so?

7 A Yes.

8 Q That's how you got your credentials and
9 privileges to practice your noble profession at
10 Mount Sinai Hospital, correct?

11 A Yes, that's true.

12 Q And this hospital, Bedford Municipal
13 Hospital, as a matter of fact, Doctor, was in
14 your own opinion ill equipped to handle breech
15 births, is that correct?

16 A That's what I wrote.

17 Q Yes, you did.

18 A May I say something?

19 Q No. No, Doctor, you can **answer Mr.**

20 Albert's questions. Mr. Albert can ask you
21 questions **as** long as he wants.

22 Now, Doctor, if indeed the hospital --
23 Bedford Hospital was ill equipped or not
24 prepared to deliver breeches, don't you agree
25 that the least they could have done **was** to make

1 that known to any patient who came in to get
2 admitted, who **was** in, for example, a breech
3 position?

4 What's your opinion on that as to that?

5 A I don't believe that Bedford Hospital in
6 1974 did not have the means with which to deal
7 with a breech delivery,

8 I think that it was not entirely,
9 completely manned or geared up, should I say,
10 all the time for which to handle obstetrical
11 emergencies,

12 Q Like an asphyxiated baby?

13 A Like an asphyxiated baby,

14 Q Okay. How many babies have asphyxia that
15 are born?

16 A Don't have a percentage.

17 Q Approximately, of all the births, how
18 many have asphyxia?

19 A Three percent, three to five percent.

20 Q So three or five out of a hundred of us
21 born into this world have **some** degree, **some**
22 element of this asphyxia, is that right?

23 **a Yes.**

24 Q And any given one of those could be a
25 severely asphyxiated baby, is that right?

A Yes.

Q And that can happen, can't it?

A Yes.

Q In an acute episode, particularly, isn't that right?

A Yes, usually those situations are known well in advance to the attending obstetrician.

Q Okay. Fine.

A In those instances, particularly in those community hospitals, it would behoove the obstetrician to obtain and surround himself with those people that might help him to gear up the equipment that, in fact, does exist, for instance, the gas machines, and to have the blood bank ready, in case the patient needed an emergency Cesarean section, and to maybe notify the pediatrician or neonatologist and to have him help manage the situation.

It is an extremely rare situation and unfortunate if somebody were to -- if the obstetrician were to find that all of a sudden, a baby came out which was severely asphyxiated,

Q Yes.

A Yes.

Q But, Doctor, whatever an obstetrician

1 could have done, we can separate ourselves for
2 a moment from that, can't we, and decide what
3 the hospital could or should have done, and
4 then maybe separate ourselves from that and say
5 what an anesthesiologist could have or should
6 have done.

7 In other words --

8 A In my mind, the hospital --

9 Q Doctor, just --

10 A The hospital is not practicing medicine,
11 Mr. Weisman,

12 Q Doctor, the hospital, you know, has the
13 ultimate duty of patient care in getting those
14 people into the hospital and giving them
15 privileges who are competent, qualified to be
16 in that position, isn't that so?

17 A The hospital should --

18 Q Can you answer the question?

19 A -- should supply the facility. I just
20 can't answer yes or no in your words, I have
21 to *do* it in my words.

22 Q Go ahead.

23 A The hospital must supply the facility and
24 make sure that its physicians are well
25 qualified.

1 Q Wouldn't it be reasonable, Doctor, that
2 if a hospital was not equipped to handle
3 asphyxiated babies, that it would be the
4 responsibility of the hospital to advise the
5 patient that if asphyxia or severe depression
6 occurs in your case, that **we** are not qualified
7 to handle it, wouldn't you expect the hospital
8 to do just that?

9 A I think that if a hospital could not
10 handle situations or was unable totally to
11 handle situations that they should not be doing
12 obstetrics -- they should not be permitted to
13 have an obstetrician, or be permitted to do
14 obstetrics at their facility,

15 Q You would expect the hospital to tell any
16 patient that, so maybe they could go somewhere
17 else?

18 A I don't think that it would be anything
19 that the hospital should have to inform the
20 physicians who admit the patients, that they
21 can't help the doctor at the time he needs the
22 help.

23 Q Very good,

24 Do you know of any evidence in this case
25 where Bedford Hospital or its administration or

any of its staff advised Dr. Choi that they
were not equipped to handle asphyxiated babies?

A I think --

Q Will you please answer the question?

A I think the word, **ill** equipped and
unequipped are two different words.

Ill equipped deals with manpower and not
necessarily the total availability of machines
and all devices necessary for infant
resuscitation.

There **was** equipment there or else a blood
gas wouldn't have been done, and all the
technical things were available. The question
was, were there people available to use them
and that versus unequipped, where totally there
were things not available.

Q Doctor, all I asked you, do you have any
evidence or knowledge that Bedford Community
Hospital said anything to the obstetrician in
this case, who happens to be Dr. Choi, to
indicate to him there **was** any shortcoming in
any way on this, their ability to handle
asphyxiated newborn babies?

A They would have had no reason to say that
to Dr. Choi. They would have had no reason--

1 Q Do you have any knowledge as to whether
2 or not there was any such notice by the
3 hospital to Mrs. Hawkins or Mr. Hawkins?

4 A No reason to have made such things known
5 to Mr. and Mrs. Hawkins.

6 Q Well, as a matter of fact, if I tell you
7 that the testimony in this case from Mr. Polack
8 who's the administrator of the hospital is that
9 Bedford Hospital held itself out to handle
10 breech births, do you have any basis for
11 understanding otherwise?

12 A No, sir. I think that breech births can
13 be handled at hospitals that purport to allow
14 obstetrics to be done at their facility.

15 Q Well, that's a high risk pregnancy, a
16 breech birth?

17 A Yes, it is.

18 Q Yes. And in your letter of May 28th,
19 1986, didn't you state very specifically, in
20 your writing that Bedford Hospital was a low
21 risk hospital, ill equipped and unprepared, for
22 potentially catastrophic obstetrical
23 occurrences -- aren't those your words?

24 A Yes.

25 Q Please check your paragraph there. Is

there any question about that? That's the third paragraph, Page 2 of your report.

I'll read it again. Bedford Hospital, which was a low-risk hospital, ill equipped and unprepared for potentially catastrophic obstetrical occurrences -- is that what you wrote?

A Yes. I would like to qualify and explain that.

Q Well, you may. Counsel is going to ask you all about it, I'm sure.

A Okay.

Q You will have your chance to tell all about it.

A Okay.

Q Now, Doctor, as a matter of fact, sodium bicarbonate, I think you mentioned, your direct examination, could have been used on Eric. Is that what you stated?

A Yes.

Q Doctor, the fact of the matter is, sodium bicarbonate should have been used, isn't that true?

A Yes.

Q And it was the standard to use it, to use it,

1 counteract the acidosis in this infant, isn't
2 that true?

3 A Yes.

4 Q And Doctor, Eric never received sodium
5 bicarbonate, did he?

6 A That's correct.

7 Q And Doctor, when sodium bicarbonate is
8 not given to an already acidotic and oxygen
9 deprived infant, what happens to that acidosis
10 and condition over the next period of time?

11 A Well, if nothing else occurs, the baby
12 will become more acidotic, and in fact, we know
13 that oxygen being delivered to the baby, the
14 baby being breathed for artificially, helps to
15 reduce that acidosis, and if, in fact, given
16 for a long enough period of time, the baby
17 would go from metabolic acidosis to a normal
18 pH, and all that the bicarbonate **does**, it
19 decreases the acidosis quicker and allows for
20 more efficient, but not necessarily better
21 resuscitation.

22 Q Doctor, did you say that you reviewed Dr.
23 Horwitz's trial testimony also?

24 A Yes, sir.

25 Q Dr. Horwitz testified that the baby was

born at 3:50 a.m. and that the first blood study was at 7:30 a.m., three and a half hours later.

Does that square with the facts that you **saw** in these records, that the first blood study on this baby to determine his acidosis was three hours and forty minutes later after his birth?

A I **was** unaware of the time,

Q You want to check it? Is there any dispute?

A I have looked at the records and I was unable to determine the time that the blood **gases** were obtained,

Q Are you willing to accept it was 7:30?

A If Dr. Horwitz says so, I would like to -- like you to show me.

Q Well, you have the record there,

A And I couldn't determine from my record, I'm sorry. I am either missing something or my eyesight is bad, but I can't determine it.

Can you show me where the blood gas is?

Q I am not sure that I can. I don't remember right off myself.

It should be in the baby's record, I

1 should think.

2 A Right here is the only report that I see.
3 I am holding up the report, and I see 11/9/74.

4 Q Yes.

5 A And I see the values, but I don't see a
6 date.

7 Q All right.

8 The only study that was made was the one
9 ordered by Dr. Daniel Shapiro, the doctor of
10 pediatrics, is that your recollection of it?

11 A That's my recollection,

12 Q And did it appear that Dr, Daniel Shapiro
13 arrived at 7:30 in the morning, sir?

14 A Yes, sir.

15 Q All right,

16 So then it is quite obvious that he, if
17 he is the one who ordered the blood study, sir,
18 that then the blood study certainly wouldn't
19 have been ordered before 7230, and he ordered a
20 blood study immediately when he arrived or on
21 the phone before, perhaps when he was called at
22 7:00?

23 A Well, if he ordered it prior to that, it
24 may have been done prior to him arriving at the
25 hospital.

1 Q Possible.

2 A 7:00, 7:30, I don't refute that.

3 Q Dr. Shapiro, Dr. Horwitz testified that
4 this blood study is the only blood study done
5 -- you agree with that, based on your review?

6 A Blood gas study,

7 Q Yes, blood gas study, is that correct?

8 A That's the only one I could find, yes.

9 Q And it showed that the pH of the blood or
10 the level of acidity, first, is that the
11 correct term, that the pH of the blood is the
12 level of acidity?

13 A Yes.

14 Q And Dr. Horwitz said it was still
15 depressed or below normal?

16 A Yes.

17 Q Do you agree with that?

18 A Below normal on a pH is more acid. The
19 more low you go, the more acid it is. Yes, it
20 is low.

21 Q And that the bicarbonate level was 9. Is
22 that what you find in that blood study?

23 A Yes, sir.

24 Q And the bicarbonate level he says should
25 have been in the twenties. Do you agree with

1 Dr. Horwitz on that?

2 A Yes.

3 Q Why should it be in the twenties?

4 A That would be normal.

5 Q Yes,

6 A Normal to have it in the twenties,

7 Q And 9 is abnormal?

8 A Yes.

9 Q And indicative of what?

10 A It means -- indicative that the baby did
11 not have a lot of base reserve with which to
12 fight the acid.

13 Q Yes. And that the child is still
14 acidotic?

15 A That's correct.

16 Q Still acidotic, and the question was put
17 to Dr. Horwitz as to whether or not or as to
18 the matter of protraction of the acidotic
19 state--

20 Isn't it true that the longer an infant
21 is in an acidotic state, the less likely it is
22 that his cells or brain cells would recover?

23 A Given the condition of Baby Eric Hawkins,
24 I can say that the longer it takes for the baby
25 to become responsive, the longer it takes for

1 him to become responsive, one can then say that
2 the amount of damage is greater as far as
3 acidosis is concerned and its prolongation, is
4 probably as you say, true, and I would say that
5 the acidotic state continues, things continue
6 to get worse and worse.

7 Q Thank you, Doctor,

8 The next thing I wish to ask you about is
9 the nurse. She also resuscitated Baby Eric,
10 didn't she?

11 A I believe she aided in the resuscitation
12 -- she and Dr. Reyes.

13 Q Well, she and Dr. Reyes handled the
14 resuscitation work, did they not, the both of
15 them?

16 A Yes.

17 Q Now, as a matter of fact, the testimony
18 is here that the nurse came up with the idea of
19 giving the baby a hot and cold tub bath, and
20 according to her own testimony, she says we did
21 it, so I assume that means she and Dr. Reyes
22 gave hot and cold tub baths or both --

23 MH. McNEAL: Objection.

24 MR. ALBERT: Objection.

25 THE COURT: You want to

1 rephrase it?

2 Q Assume that Dr, Reyes and Nurse
3 Gerhardstein gave Baby Erie hot and cold tub
4 baths.

5 MR. McNEAL: I object,

6 MR. ALBERT: Show an
7 objection.

8 THE COURT: Overruled.

9 Q Assume that. Assume that they did that,
10 or she suggested that that be done, and they
11 did it --

12 MR. McNEAL: Objection.

13 Q -- to shock a severely depressed --

14 THE COURT: Overruled.

15 MR. McNEAL: I object to
16 the question. That's the testimony.

17 THE COURT: Overruled.

18 That is the testimony.

19 Q -- to shock the severely depressed
20 newborn baby. Doctor, are hot and cold tub
21 baths consistent with reasonable resuscitative
22 care for the newborn?

23 A Any attempt or attempts made to stimulate
24 the child, in order to overcome narcosis, that
25 **would** be from the Dernerol, or from the

1 anesthetic that the baby was trying to recover
2 from, sometimes to stimuli, such **as** pain, such
3 as josseling, such as rubbing the back, such as
4 hitting the heels are all -- have been used in
5 the past and are still being used and is part
6 of a reasonable effort at stimulating the baby
7 in order to breathe on its own, and in fact
8 i.e. resuscitation.

9 I don't know about tub baths. I don't
10 know how long this baby **was** emersed in any
11 water, I don't know the temperature of that
12 water, I only know what you told me about what
13 they apparently testified to.

14 Q Doctor, anything that is done to provide
15 coldness, especially to a severely depressed
16 baby in the state that Eric was in would be
17 negative and not indicated for acceptable for
18 his condition, isn't that true?

19 A Given the state that Eric was in, or the
20 state that I believe Eric was in, I don't think
21 that any attempt to stimulate Eric damaged Eric
22 in any way.

23 Q Doctor, I didn't ask you that, sir.

24 A I'm sorry.

25 Q I'm asking you whether or not tub baths

1 for Eric was acceptable or standard care for
2 him?

3 A I've never heard about tub baths.

4 Q Well, Doctor, you read Williams On
5 Obstetrics, did you not, that's one of your
6 basic textbooks, is it not, in your field?

7 A I have read Williams textbook in the
8 past, yes.

9 Q And Doctor, here's Williams On
10 Obstetrics. This happens to be the 15th
11 Edition, which is 1976.

12 There wouldn't be any significant
13 difference, would there, between 1976
14 standards, as expressed in Williams, on
15 resuscitation in 1974, would there?

16 A I doubt it.

17 Q All right.

18 Doctor, do you agree with the statement
19 in Williams On Obstetrics -- did you use this
20 book, by the way, in law school -- law school
21 -- Did you use this book in medical school?

22 A In my residency.

23 Q Did you? All right.

24 Doctor, do you agree with this:

25 "Tubbing, jackknifing and dilitation of

1 sphinctors are condemned as wasteful of
2 valuable time and may cause serious injury,"

3 Do you agree with that, sir?

4 A The jackknifing or dilitation of
5 sphinctors may cause injury, serious injury.

6 Tubbing, **yes**, emersing in water. I agree
7 that is a waste of time. I don't **know** that
8 that would cause serious injury.

9 I think what you're getting at is that ~~if~~
10 a baby is hypothermic, is a cool tub bath going
11 to make the baby more hypothermic, and is that
12 going to make a bad, and --

13 A What do you say to that?

14 A I think that it would.

15 Q All right.

16 Then it is certainly not consistent with
17 acceptable nursing standards, is it?

18 A I don't know what Nurse Gerhardstein did.

19 Q Well, assume she dunked him in a cold tub
20 bath.

21 MR. McNEAL: Show an
22 objection.

23 MA. ALBERT: Show an
24 objection.

25 A I don't know **if** that's the case, but if

1 that's the case --

2 Q Assume that.

3 A Then it wouldn't have been very
4 appropriate.

5 Q It would not be consistent with
6 acceptable nursing standards, correct?

7 A That's correct.

8 Q And it would not be consistent with
9 acceptable resuscitation standards for any of
10 the specialties, whether it's an anesthesi-
11 ologist, a pediatrician, an obstetrician or a
12 nurse, isn't that true?

13 A Well, you're assuming --

14 Q Is that true, Doctor?

15 A You're assuming that Nurse Gerhardtstein
16 or Dr. Reyes, together, who did the
17 resuscitation, **were** very enjoined and adept and
18 an expert in infant resuscitation and --

19 Q Doctor, I'm not assuming --

20 A I don't know that they read Williams. I
21 don't know that they knew that dipping a baby
22 in cold water or jackknifing or dilitation of
23 sphinctors wasn't the appropriate manner of
24 care.

25 Q Doctor?

1 A Yes, sir?

2 Q Was Eric Hawkins entitled to decent and
3 reasonable resuscitative care, no matter what
4 they read?

5 A Yes, he was.

6 a Very good.

7 Dr. Horwitz says in his testimony, and I
8 asked if you agree with this, that cold tub
9 bath was highly detrimental. Do you agree with
10 that?

11 A In this instance?

12 Q Yes.

13 A I don't think it made any difference.

14 Q He said that this requires the infant to
15 use excessive amounts of oxygen to try to get
16 its temperature up.

17 a That's true.

18 Q And do you agree with this, that cold --

19 MR. ALBERT: Excuse me,

20 Could you give the page?

21 Q -- cold causes the acidosis to become
22 worse.

23 MR. ALBERT: Could we have
24 a page?

25 MR. WEISMAN: 762.

1 Q Dr. Horwitz, he says the cold causes the
2 acidosis to become worse. Do you agree with
3 that or don't you?

4 A Yes, I do.

5 Q He says that it is the basic and a
6 recognized view that no one does tub baths. Do
7 you agree or disagree?

8 A I agree.

9 MR. WEISMAN: Page 766.

10 Q That it is certainly not consistent with
11 -- well, withdraw that,

12 Doctor, it is true, isn't it, that not
13 only sodium bicarbonate should have been given,
14 but blood gases should have been obtained,
15 blood studies of his blood gases should have
16 been obtained also immediately after he was
17 born with a 1 Apgar, isn't that true?

18 A That would be the standard of
19 resuscitation --

20 A Yes.

21 Q -- in 1986. Yes, of infant
22 resuscitation, yes.

23 Q In 1986?

24 A Yes.

25 Q And they were different in 1974, sir?

1 A No, I agree, blood gases would have been
2 obtained in **1974** as well.

3 Q Doctor, why did you say in 1986, when
4 we're talking about 1974?

5 MR. ALBERT: Objection.

6 MR. McMEAL: Objection, if
7 the Court please.

8 THE COURT: Overruled.
9 Any particular reason why you used that?

10 THE WITNESS: I **was** taking
11 the time to think about 1974.

12 THE COURT: All right.

13 Q Very good. Very good, sir.

14 MR. WEISMAN: Excuse me,
15 your Honor.

16 Q Referring to Greenhill's book, Page 695--

17 MR. ALBERT: Show an
18 objection. There is no disagreement yet
19 from the witness on any question.

20 MR. WEISMAN: I was
21 questioning him before and I diverted --

22 THE COURT: This is
23 cross-examination. Go ahead.

24 Q **We** were talking about endotracheal
25 intubation previously, and then I lost it and

1 moved to some other point. Remember we were
2 talking about that before?

3 A Yes.

4 Q Do you agree with this or not -- and by
5 the way -- well, Page 695: "For infants
6 severely depressed at birth with Apgar scores 0
7 to 3, no time should be lost before proceeding
8 to intubate the trachea."

9 Do you agree with that?

10 A It all depends on the situation and the
11 condition of the situation. I can't agree with
12 that 100 percent of the time. Medicine isn't
13 practiced cookbook style. It would be nice if
14 it would, and it would be nice if people
15 responded to the **way** that the cookbook would
16 indicate that they might, but what **we** have to
17 remember here is that the situation was
18 different than what Dr. Greenhill may have
19 thought would be the --

20 MR. WEISMAN: Your Honor, I

21 just asked if the gentleman agreed with
22 it or not, and I'd appreciate an answer,

23 Q Either you agree or --

24 A I agree, but there is a qualification to
25 disagreement.

1 THE COURT: Ask another
2 question.

3 MR. WEISMAN: Yes.

4 Q Even with whatever disagreement you have
5 with me, in my, perhaps meager cross-
6 examination of you, you will agree with me that
7 he was not, Eric was not given adequate
8 resuscitation for a severely asphyxiated baby,
9 isn't that true?

10 A No, I don't agree with that.

11 Q Well, I thought you said that he should
12 have had blood studies of his gas?

13 A Blood studies, it never resuscitated an
14 infant. You get blood studies to guide you
15 perhaps in the amount of sodium bicarbonate
16 perhaps for the baby to make the resuscitation
17 effort less arguous and quicker.

18 Q What about sodium bicarbonate, is that
19 part of the resuscitation?

20 A Sodium bicarbonate is given, if possible,
21 by trained persons who know how to give it, and
22 it would shorten the period of resuscitation.
23 It might shorten the period of resuscitation,
24 but **as** I said before, by breathing and
25 breathing off carbon dioxide and giving oxygen

1 to the baby, it might very well reverse the
2 acidosis itself.

3 I have no reason to suspect that the
4 resuscitation efforts were inadequate or
5 substandard, as they were attempted.

6 Q Well, Doctor, you do state, don't you,
7 you don't back down from your statement in your
8 own letter, do you --

9 MR. McNEAL: Object as to
10 that statement, if the Court please.

11 THE COURT: Sustained.

12 The jury will disregard that.

13 Q Doctor, did you or did you not state
14 in your letter that you can't say whether the
15 lack of oxygen here was extrauterine and
16 secondary to inadequate resuscitative efforts,
17 Didn't you say that in your own letter?

18 A Yes, but the inadequate resuscitative
19 efforts must be qualified, in that they -- I
20 retract that. Yes, I said that.

21 Q You did say that,

22 MR. WEISMAN: Excuse me one
23 moment, your Honor.

24 Thank you very much. That's all.

25 THE COURT: All right.

1 Now, based on all the cross-
2 examination, Mr. Albert, do you wish to
3 engage in redirect?

4 MR. ALBERT: I would, your
5 Honor.

6

7 REDIRECT EXAMINATION OF DR. STEVEN M. KLEIN

8

9 BY MR. ALBERT:

10 Q To refresh your recollection, Mr.
11 Stuhldreher asked a question about the
12 percentages of 80 percent, and you referenced a
13 94 percent figure, I believe, pertaining to
14 Apgar 1 children becoming normal?

15 A Yes.

16 Q Do you recall that scenario?

17 A Yes.

18 Q What significance do you place, if any,
19 on those statistics?

20 A Well, simply that fetal recovery from
21 severe hypoxia and acidosis with good
22 resuscitation yields, in my figures, 94 percent
23 without residual brain damage, without apparent
24 residual brain damage, and from that, I
25 conclude that that presupposes that those

1 babies, of course, didn't have permanent
2 neurologic injury at the time that
3 resuscitation was undertaken, and **it's** simply
4 -- that's all it means, is that they didn't
5 have -- is that those 94 percent did not have
6 permanent brain damage when they were
7 resuscitated.

8 Q What if any significance does it have in
9 assisting in determining when permanent brain
10 injury occurred?

11 A Well, **if** they recovered, most certainly
12 their brain injury didn't happen altogether.
13 Those that didn't recover from their
14 resuscitative efforts, one has to assume that
15 the brain injury occurred intrauterine.

16 Q How would that be applicable to this
17 case?

18 A We have a situation here where a baby is
19 severely acidotic, severely depressed, severely
20 hypoxic, is resuscitated by a nurse and by an
21 anesthesiologist in the best manner that they
22 knew how to do, bag and mask breathing, good
23 oxygen being tried to be delivered to the baby,
24 I think that they did the best they possibly
25 could from what the records show --

1 MR. WEISMAN: Objection.

2 THE COURT: Overruled.

3 A And we have a brain damaged infant that
4 **was** obviously brain damaged very **soon** after
5 birth, people knew that it had experienced some
6 damage, and I have to assume from that, going
7 along with the statistics, that that baby
8 suffered this insult in utero.

9 MR. WEISMAN: Objection.

10 THE COURT: Overruled.

11 Q Which leads to the next question. Mr.
12 Stuhldreher asked you about the percentage of
13 injury done in utero versus extra utero or
14 outside the uterus.

15 Your opinion is what, based upon
16 reasonable medical certainty and probability?

17 A That Eric Hawkins was damaged in utero,
18 that's my opinion.

19 Q Mr. Weisman asked you about your
20 testifying on behalf of injured parties. **How**
21 **many** times have you testified?

22 A This is my first time. I didn't realize
23 that I was testifying for a party. I thought
24 that I was here as a witness --

25 MR. WEISMAN: Objection.

1 A -- trying to --

2 THE COURT: Overruled.

3 Go ahead.

4 A -- explain to the jury and to the people
5 asking ne questions, to the best of my ability
6 as an obstetrician, what happened.

7 Q A5 a point of clarification, Mr. Weisman
8 asked you a number of questions about oxygen
9 deprivation during the delivery period.

10 Could you clarify for the jury t period
11 of time when you believed the oxygen
12 deprivation occurred, what was going on at
13 those time periods?

14 A Well, I believe that when the, according
15 to my records and according to the records, at
16 3:20 the mother **was** given a general anesthetic,
17 and I believe that she **was** given the genexal
18 anesthetic because it **was** believed that she was
19 deliverable, meaning something had to be
20 extruding from the vagina at that point in
21 **time**, Usually the head will crown in the
22 vertex down, or a breech, and this was a
23 breech, So, the head wasn't coming out of the
24 vagina, and this, as I tried to explain before,
25 means that that cord is being depressed between

1 the body of the baby and the pelvis, and I
2 think the baby experienced oxygen, some bit of
3 oxygen deprivation, unquantifiable, I don't
4 know how much at this time, and I don't know if
5 it ever recovered from this episode, but it
6 might have, until the second anesthetic was
7 given, the second anesthetic the baby is again
8 down deep in the pelvis being given a second --
9 the mother's being given a second general
10 anesthetic, again, cord compression is
11 occurring, and from then on, which **was** I think
12 the 3:47, I believe, which means that the head,
13 the breech head had to come down before that
14 anesthetic, that's several minutes before, from
15 3:47 until 3:50, at least with a general
16 anesthetic, again the cord is being squeezed,
17 and it's at this time that the baby is getting
18 perpetual decreased amount of oxygen without
19 any possible way of recovering from this,
20 because it's not going back up and it can't get
21 cord circulation any longer.

22 Q What's the object of resuscitation, what
23 are you attempting to do there?

24 A To re-establish circulation, blood flow,
25 if there is none, and to re-establish

1 respirations with good oxygenation.

2 Respirations is if the person or child is
3 not breathing on its own, you have to breathe
4 for it until it can breathe on its own, and you
5 have to supply oxygen for this brain and for
6 this body to live.

7 So, resuscitation is somebody who can't
8 either circulate or breathe on its own or her
9 own, and resuscitation is the attempting to get
10 them to do that,

11 Q **And** whose responsibility in the
12 obstetrical arena, if I may use that term, for
13 determining who's present to accomplish that
14 task?

15 A The obstetrician's role in instances
16 where he's got to be able to recognize
17 potential situations, this being one of them --

18 MR. WEISMAN: Objection,

19 A -- where it **was** extremely high risk --

20 THE COURT: Overruled.

21 A -- common knowledge that breeches are
22 often born hypoxic, lacking in oxygen to some
23 degree and may need resuscitation, and it was
24 the obstetrician's, from my point of view,
25 responsibility to either surround himself with

1 people who were expert in neonatal
2 resuscitation or to have transferred that
3 mother to a place where there were people who
4 were able to give expert neonatal
5 resuscitation.

6 Q And what did you mean in your report by
7 use of the words, "ill equipped at Bedford
8 Hospital"?

9 A I tried to explain that.

10 They had the equipment, they had the
11 ability to do the blood gases. I'm sure that
12 they had sodium bicarbonate, they had oxygen,
13 they had umbilical catheters, they had
14 everything there.

15 What they lacked on a 24-hour basis, and
16 this makes them the lower risk hospital, is the
17 immediate availability of a perinatologist or a
18 neonatologist who can use the equipment, and
19 Bedford had an anesthesiologist certainly
20 capable of handling Mommy but was unfamiliar
21 with babies, perhaps.

22 He did the best he could under the
23 circumstances. But not having an anesthesi-
24 ologist there, or a neonatologist or
25 perinatologist who is familiar with the

1 newborns **was** the responsibility of the
2 obstetrician, but in this instance, and as I
3 said in my report, that I don't think that
4 because of the way the baby came out, the
5 length of time that; the baby **was** deep in the
6 birth canal and so forth, I don't think that
7 even if the baby were to have been given the
8 sodium bicarbonate, umbilical catheters, had
9 all the blood gases drawn, that it would have
10 been any less damaged.

11 Q Mr, Weisman asked you a number of
12 questions pertaining to competency, evaluating
13 competency.

14 In your experience in the hospitals, when
15 applying for medical privileges, who makes the
16 substantive evaluation, that is, determines
17 actually the qualifications, how does that
18 work?

19 A Well, a doctor applies for privileges to
20 practice medicine or take care of patients at a
21 hospital, and initially, usually it's the
22 administration's responsibility to make sure
23 that that doctor has a license to practice
24 medicine, and as far as the doctor practicing
25 within a special field, it's usually the head

1 of the department in which he wants to
2 practice.

3 **As** an example, anesthesia. The head of
4 the department of anesthesia would look over
5 the resume of this doctor's application and
6 determine, either by talking to the doctor,
7 looking at the resume, calling up, asking for
8 references, would determine the level of
9 experience and of competency that this person
10 who was applying to practice anesthesia at this
11 hospital **has**, then the chief of the department
12 of anesthesia would bring it to an executive, a
13 medical executive committee.

14 This medical executive committee would
15 listen to the chief's testimony, that: "Yes,
16 this doctor's applying in my department," and,
17 "Yes, I find him to be competent."

18 The medical executive committee would
19 then say, "Fine." If they had no objections,
20 and they would go ahead and refer that to the
21 board of trustees of the hospital.

22 The board of trustees has to depend
23 entirely upon their medical personnel to
24 ascertain the competency of these individuals,
25 and if they found no reason to overrule their

1 medical executive committee, they would say,
2 "Okay. You're given or granted privileges to
3 practice at this hospital."

4 Sa it falls really, in answer to your
5 question, upon the chief of the department to
6 ascertain the level of expertise and competency
7 within a given field.

8 Q Okay. And that's a physician?

9 A Yes.

10 Q With respect to communication with the
11 patient, remember Mr. Weisman asked a series of
12 questions pertaining to discussing particular
13 matters with patients.

14 Assuming, as in this case, it was the
15 case that Mrs. Hawkins had a private
16 obstetrician, in that circumstance, who is
17 looked to as being responsible for
18 communicating with the patient pertaining to
19 all the patient's needs and concerns?

20 MR. WEISMAN: Objection.

21 THE COURT: Overruled.

22 A It's the obstetrician that admits the
23 patient, it's the obstetrician that takes care
24 of the patient, and it's the obstetrician's
25 responsibility to communicate with that patient

1 what's available, what's not available, the
2 level of care, his feelings and so forth and
3 how he can effectively care for her at a
4 particular hospital.

5 Q Do you remember Mr. Weisman asking you to
6 assume that Baby Eric **was** put into an ice bath,
7 or something along those lines, do you recall
8 those questions?

9 MR. STUHLDTREHER: Objection. I
10 don't think he said "ice bath."

11 THE COURT: Water bath,

12 MR. ALBERT: Whatever. I
13 would like to get it straight **so** that I
14 can --

15 THE COURT: I don't
16 remember anything about an ice bath.

17 Q Very cold bath, an ice tub, something
18 along those lines.

19 MR. WEISMAN: Objection.

20 MR. STUHLDTREHER: There was no
21 testimony, your Honor, and I object to
22 this.

23 THE COURT: I think he
24 said "hot and cold baths," is that
25 correct?

1 MR. WEISMAN: Yes, sir,
2 precisely.

3 MR. ALBERT: Hot and cold
4 baths.

5 THE COURT: Yes. Hot
6 and cold baths.

7 MR. ALBERT: Very good.

8 Q Do you have any evidence that Eric was
9 placed in the hot and cold baths?

10 A Only by hearsay that I've heard today,
11 and I don't know, I've not read anything that
12 Baby Eric was placed in a cold tub of water.

13 Q Okay. I would like to have you assume
14 that what Eric was placed in was some warm tap
15 water, okay, I wish you to assume that, Do you
16 believe that had any effect on Eric whatsoever
17 as to his brain damage?

18 A No.

19 MR. WEISMAN: I object to
20 that.

21 THE COURT: Overruled.

22 Q Do you agree with Dr. Horwitz in that
23 regard, that you don't believe that occurred or
24 happened either, brain damage?

25 A Yes, sir, that I would agree with Dr.

1 Horwitz.

2 MR. ALBERT: Excuse me one
3 moment, your Honor, if I may.

4 I have no further questions,
5 your Honor.

6 THE COURT: All right.

7 Mr. Stuhldreher, you may have
8 the opportunity to formulate questions
9 on recross in response to the redirect
10 and your fellow lawyers' cross. So, you
11 may have both opportunities at this time
12 for recross.

13

14 RE CROSS - EXAMINATION OF DR. STEVEN M. KLEIN

15

16 BY MR. STUHL DREHER:

17 Q Dr. Klein, when you were asked about the
18 hot and cold tub baths, you say that the first
19 you heard of that, that **was** hearsay⁸

20 Everything you know about this case is
21 hearsay, isn't it, isn't what you got out of
22 the records and what people have told you about
23 the facts, isn't that true?

24 A I don't perhaps know the definition of
25 hearsay and maybe I **used** it --

1 Q Well, you used the term, sir.

2 A Would you like to tell me --

3 Q I just want you to answer my questions,
4 that's all I would like you to do, is just
5 answer my questions.

6 A Well, I don't know the definition of
7 "hearsay," and if I used it improperly, then I
8 can't answer your question.

9 Q Well, you told us that you never read Dr.
10 Choi's depositions or any of his testimony.

11 A That's correct.

12 Q So what you know about this case is what
13 you've taken from the hospital records and what
14 Mr. Albert has told you, isn't that the fact?

15 A And what you told me and what Mr. Weisman
16 told me.

17 Q What we told you in our questions, is
18 that what you mean?

19 A That's correct.

20 Q All right.

21 Now, Doctor, when you were examined by
22 Mr. McNeal, you will recall there came a time
23 when he asked you -- you were talking about the
24 crowning of the buttocks --

25 A Yes.

1 Q -- and he said: " Well, what would you
2 have done at that time?"

3 Do you recall that?

4 A Yes, I do,

5 Q And you responded that there were two
6 things, then you said, " Well, no, there are
7 three things, three different approaches that I
8 would have made."

9 Do you recall that?

10 A Yes.

11 Q I don't want to misquote what you said,
12 And then you said that, "Number one would be to
13 use a total breech extraction." Is that
14 right?

15 A Yes,

16 Q And then I believe the second one was
17 that, you said you would have pushed the baby
18 back up into the uterus and then you would have
19 done a C section,

20 A Yes.

21 Q And then the third one was, my notes, I
22 tried to get it down, you said that you would
23 have the mother awakened and then you would
24 have her push down some more and deliver the
25 baby vaginally, isn't that true?

1 A Yes.

2 Q And I think you added, if the fetal heart
3 rate was -- I wrote down here "okay" or
4 "normal" or "acceptable," right?

5 A Yes.

6 Q Now, isn't the number three choice that
7 you gave precisely what Dr. Choi did in this
8 case? He had her awakened, there was an
9 anesthetic and then she was awakened and then
10 he had her push down some more, and then there
11 was another anesthetic and the baby was
12 delivered, isn't that what occurred here,
13 according to the records?

14 A He did not determine fetal status, at
15 least it wasn't recorded that he determined
16 fetal status at the time.

17 This would be an extremely frightening
18 time for the obstetrician, and what Dr. Choi
19 did was one of, as I say, as you say, one of
20 the three things, and yes, Dr. Choi elected to
21 allow the patient to awaken and to push some
22 **more** to get the baby further down so that it
23 could be delivered, but the baby has to be
24 delivered, it's got to be delivered either
25 vaginally or by Cesarean section, but the

1 baby's got to be removed.

2 Q Well, it's a frightening time because you
3 have to move pretty fast, you don't have much
4 time to decide what you're going to do, isn't
5 that true?

6 A You have no idea.

7 Q Pardon me?

8 A You have no idea how frightening it could
9 be.

10 Q All right.

11 And there was some testimony that -- you
12 said you do have to move fast, I believe you
13 indicated, and if there were a compressed cord,
14 umbilical cord, while the baby is in the
15 vaginal canal and just before delivery, if you
16 then decided to stop the delivery and perform a
17 C-section, isn't it entirely possible that you
18 would get more cord compression in the delay by
19 the time you got the equipment necessary to
20 perform the C-section in place?

21 a Well, the mother was already, had a
22 general anesthetic and it might have been
23 entirely possible to have taken the hand and
24 actually push the breech back up into the
25 vagina and loosen **up** the cord so that

1 circulation of the umbilical cord was
2 re-established, and in essence, during that
3 period of time it would loosen up the body from
4 being compressed and it might allow the baby to
5 actually be resuscitated on its own by enough
6 passes of circulation while it **was** in Mommy,
7 and **as** long **as** you kept Mommy well oxygenated,
8 the baby might self, if you will,
9 self-resuscitate, so that when the C-section is
10 done, the baby's condition may be good,
11 providing that there was no permanent damage to
12 that point,

13 Q Of course, in that scenario that you just
14 went through, you're assuming that all of those
15 things could be accomplished?

16 A Yes.

17 Q We don't know that you could accomplish
18 that, that you could free **up** this cord
19 compression and that everything would work out
20 satisfactorily.

21 Now, you've indicated that your
22 statistics show that 94 percent of the babies
23 that are born asphyxiated can be resuscitated
24 and become normal babies, isn't that true, is
25 that what you said?

1 a Yes. Here the perinatal collaborative
2 study demonstrated that infants with Apgar
3 scores of 0 to 3 found 94 percent of term
4 infants without evidence of cerebral palsy.

5 Q So that leaves us 6 percent that end up
6 with either --end up dead or brain damaged, is
7 that true?

8 A Correct.

9 Q That would be true, wouldn't it?

10 And because Eric is brain damaged, you
11 then conclude, do you not, that he must have
12 been brain damaged before the resuscitation
13 began, isn't that right, isn't that the way you
14 have theorized this case, aren't those your
15 conclusions?

16 A Oh, statistics aside, I think the
17 condition and my knowledge of the time that the
18 baby was in the birth canal makes me believe
19 that the injury, permanent brain damage
20 occurred intrauterine.

21 I think that the statistics only
22 corroborate the fact that if the baby **was**
23 unable to be resuscitated, then it had
24 permanent brain damage, or resuscitated and
25 eventually wound up either dead or with brain

1 damage, then I think that corroborates the fact
2 that it was intrauterine.

3 Q Well, in your answers to questions just a
4 moment ago by Mr. Albert, you said that the
5 brain damage was in utero?

6 A Yes.

7 Q And then you said you assumed that.
8 Didn't you say you assumed it?

9 A I assumed it,

10 Q You assume that's what happened here,
11 don't you, isn't that true, Doctor?

12 A It's my opinion that that's what
13 happened.

14 Q It's your assumption, isn't it?

15 A **Yes,**

16 Q You just said that?

17 A Yes.

18 Q All right.

19 Well, you told us in the report that one
20 cannot say with any medical certainty whether
21 it occurred intrauterine or extrauterine, isn't
22 that what you said in your report?

23 A I wrote that, **yes.**

24 MR. STUHLDRER: That's all I
25 have.

THE COURT:

Mr. McNeal,

you're up.

RECROSS - EXAMINATION OF DR. STEVEN M. KLEIN

BY MR. MCNEAL:

Q Do you want to explain that last statement, Doctor, as to what you wrote?

A well, brain damage oftentimes cannot be -- if brain damage is caused by a lack of oxygen, and I think that everybody's in agreement that it was a lack of oxygen that caused the baby's brain damage, at least that's what I think, it either was because the baby suffered it permanently and enough lack of oxygen in utero or it suffered outside due to inadequate resuscitation.

I did not mean to infer, either in my report or now, that there was in fact inadequate resuscitation, but should or if it was inadequate resuscitation, then one couldn't begin to determine whether or not it **was** brain damage inside or outside,

And I tried to qualify that further by saying, in this situation, there is such

overwhelming, in my opinion, evidence, the number of minutes that the baby was in the birth canal, knowing how much it was in a situation of a breech, how much cord compression there is, and knowing the condition and hour and fifty minutes in the second stage deep down in the pelvis, the Piper forceps, the number of minutes it took to finally deliver the head .

So, we had two situations, one, the body was deeply pressed into the pelvis with cord compression; two, the baby's head had yet to be delivered when the best of the body was delivered.

So you have a quote, kind of a smothering effect, if you will, that all of this, in my mind says that the baby had enough lack of oxygen during those minutes that according to statistics it only needs about six to eight minutes before permanent brain damage occurs in an instance like that.

And so this statement, that it could be extrauterine, it certainly could be extrauterine, but I don't believe in this instance it could be extrauterine, if it was

inadequate resuscitation, and I don't believe it as inadequate resuscitation in this instance.

Q Thank you.

Now, as to sodium bicarbonate, **as** all medicine **is**, it advances, and the thinking in 1974 that sodium bicarbonate should be utilized in order to overcome the acidity that would be present. Now, what is the thinking concerning sodium bicarbonate, the use of it?

A Well, it's still considered a prime tool by the resuscitating team because the quicker one is able to neutralize the acidity, the quicker the response of the infant, the better off the infant is going to be.

However, a sophisticated -- the danger lies in overusage of bicarbonate, and I think that that is a relatively reasonably learned phenomenon, that in fact brain hemorrhages can occur by overuse of sodium bicarbonate.

But the initial use of bicarbonate, a measurement of blood gases to tell the doctor where, what the situation is, is more sodium bicarbonate needed, in other words, is still an extremely effective and good and recognize

standard of good neonatal infant resuscitation,
no question about that.

Q One has to be **most** careful about the
amount of sodium bicarbonate administered,
keeping in mind --

A One has to know how to use it, one has to
know the amount of how to use it, that's
correct.

Q And watching very carefully as to whether
or not the resuscitation which is being
undertaken is again overcoming the need for
sodium bicarbonate?

A **Yes.**

Q Fine.

MR. McNEAL: Thank you.

THE COURT: Fred,

recross,

RECROSS-EXAMINATION OF DR. STEVEN M. KLEIN

BY MR. WEISMAN:

Q You were not in the picture here at the
time of the arbitration, were you, Dr. Klein?

A No.

Q You were brought in after the arbitration

1 several months later, correct?

2 A Yes, sir.

3 Q Did you have occasion to read any of the
4 multiple expert reports that had been produced
5 by the defense over the last ten years that
6 this lawsuit has been filed?

7 MR. ALBERT: Show an
8 objection.

9 THE COURT: Overruled.

10 A I read the reports that I told you that I
11 read earlier,

12 Q Other than the reports of the defense,
13 the defense reports?

14 A I'm sorry.

15 Q Of any other defense experts, did you
16 read any other defense experts reports?

17 A I only read the ones that I told you that
18 I read. I didn't read any others. I read the
19 depositions of Dr. Edelberg, Dr. Horwitz, Dr.
20 Coker, Dr. Kretchmere, and I read the trial
21 testimony of Dr. Horwita. I have not read any
22 other reports from any other doctors.

23 MR. WEISMAN: Thank you.

24 No further questions.

25 THE COURT: Steve?

1 MR. ALBERT: No, your
2 Honor. I'm finished. Thank you

3 THE COURT: All right,
4 Doctor, you may step down. Thank you.

5 THE WITNESS: Thank you.

6 THE COURT: Ladies and
7 gentlemen, we're going to recess early
8 today.

9 As I understand it, the next
10 witness also is a medical doctor, and he
11 is coming in from -- what is it, Chicago?

12 MR. ALBERT: Chicago,
13 Illinois, your Honor.

14 THE COURT: He will be
15 here tomorrow morning. So we will again
16 renew the Court's admonition, that is, do
17 not discuss between yourselves nor allow
18 anyone to discuss the subject matter of
19 this case until you've heard the balance
20 of the testimony and the Court's charge.

21 We will allow the jury to go at
22 this point, David. We'll ask **them** to be
23 back at 9:30 in the morning. And Mrs.
24 Melner, if you will stay, I will discuss
25 further with you my conversation with

1 regard to your letter. All right?

2 . Please rise, ladies and
3 gentlemen.

4 ---oOo---

5 (Thereupon, the jury was excused
6 for the day, whereupon, the
7 following proceedings were had in
8 open court:)

9 ---000---

10 THE COURT: All right.
11 Mrs. Melner, I have attempted at the noon
12 recess to contact your employer, Jet,
13 Incorporated.

14 JUROR NO. 8.: Yes.

15 THE COURT: He was not
16 there. His secretary told me that she
17 didn't expect him to return. So, I have
18 not had the opportunity to communicate
19 with him, although I did tell her that I
20 would appreciate very much if he would
21 pay you, and in fact, believed it to be
22 his duty, his obligation as a corporate
23 citizen of this community, I am hoping
24 that I will hear from him, the balance of
25 this day or tomorrow. Beyond that, I

can't tell you any more.

So, if you would like to stay with us until I do in fact talk to him, maybe the persuasiveness of the Court may in fact see to it that you are compensated.

I have been listening very closely to the brilliance of all the counsel in this case, and perhaps I can adopt some of their persuasive abilities and convince your employer, and convince your employer that you in fact ought to be compensated.

It is incredible to me that corporate citizens of this community do not in fact pay their employees for jury service.

En looking at this case, we have the University Hospital, and she is being compensated by her employer, a good corporate citizen of Cuyahoga county.

Juror No. 2 is in fact, belongs to a small corporation and apparently she is being compensated, Another good corporate citizen of Cuyahoga county.

1 Juror No. 3 I believe is retired,
2 homemaker. So, therefore, doesn't
3 qualify.

4 The issue of corporate citizens,
5 everyone, in fact there is a Postal
6 Service employee here who is being
7 compensated,

8 Juror No. 7 works for the City of
9 Cleveland, also a corporate citizen,
10 being compensated, and you apparently are
11 the only one.

12 So, I have contacted your
13 employer. I will continue to impress
14 upon him that he pay you, as a good
15 corporate citizen of this community, just
16 as you are a good citizen.

17 Corporations and citizens stand
18 on the **same basis, as** far as I'm
19 concerned, and you ought to be paid, and
20 I wish very sincerely that **we** were **able**
21 to pay you out of our funds here in the
22 county, but unfortunately we cannot.

23 We give you \$10 a day, which is
24 hardly enough to pay your parking and
25 allow you to eat lunch. It is just an

unfortunate situation. But I'm going to talk to your boss.

Now, whether or not I will, as I've mentioned during the voir dire, raise particular hell with him or not, I'm not sure, but I might, depending on how he responds to my request.

I'm going to not attempt to put you in a position that might cause any problem with this fellow, I will try to use the persuasiveness of drawing on the skill and ability of all these lawyers that I've been privileged to **have** work with me for the last three weeks, learning from them how to use this persuasive ability that they have. I'm going to use that on your boss. Okay?

JUROR NO. 8.: Very good,

THE COURT: Okay. Now, you can come out around this way. If you can come back tomorrow at 9:30, **we** hopefully will have an answer.

All right.

---o0o---

(Thereupon, at 3:00 p.m., Monday, December 1, 1986, this cause was recessed until Tuesday, December 2nd, 1986, at 9:30, all parties being present, the following further proceedings were had:)

*Dr. Klein**TRIAL #19* 1692

1 THE COURT: Please be
2 seated, folks.

3 All right, George.

Doc. 239
part II of II

4
5 CROSS-EXAMINATION OF DR. STEVEN M. KLEIN

6
7 BY MR. STUHLDTREHER:

8 Q Dr. Klein, --

9 A Sir?

10 Q -- you reviewed various hospital records
11 and some depositions before you came here to
12 testify today?

13 A Yes, sir.

14 Q You've testified here about the delivery
15 of the baby and what Dr. Choi did or did not
16 do.

17 Did you ever review Dr. Choi's deposition
18 that was taken in this case?

19 A No, sir, I have not.

20 Q You never were given that deposition,
21 were you, to review?

22 A I never reviewed it.

23 Q And do you know that this case was
24 arbitrated before a panel of lawyers and that
25 Dr. Choi's testimony was taken during that

1 arbitration hearing, **did** you know that?

2 A No, sir,

3 Q **You** didn't know about that? You
4 indicated no?

5 A No.

6 Q So **you've** never reviewed the testimony of
7 Dr. Choi that he **gave** during the arbitration
8 hearing in this case, have you?

9 A No, sir.

10 Q And do you know that Dr. Choi testified
11 from the witness stand in this case during this
12 trial, are you aware of that?

13 A No, sir, I'm not,

14 Q Nobody told **you about what** he said during
15 that testimony, what he told this jury when he
16 was on the witness stand, nobody told you about
17 that?

18 A I don't recollect specifics at all.
19 There may have been **vague** allusions, but I
20 don't recollect **anything that was said** about
21 Dr. Choi's testimony.

22 Q So the fact is, Doctor, that you don't
23 know anything that Dr. Choi said about what he
24 did in delivering this **baby**, isn't that a fact?

25 A I discussed with Mr. Albert -- or Mr.

1 Albert **discussed** with me certain of the aspects
2 of the trial that have **occurred** thus far, and
3 alluded to certain things that apparently had
4 come out at the trial, among **them were** certain
5 things that apparently Dr. Choi did or didn't
6 do.

7 So, those are the **only facts**. I have not
8 read the actual testimony of Dr. Choi.

9 Q The only facts then **you've** got about what
10 Dr. Choi did or did not do were from Mr.
11 Albert, is that what **you're** telling me?

12 A That is correct.

13 Q You and Mr. Albert belong to the same
14 **country** club?

15 A As a matter of fact, **yes**.

16 Q Personal friends, aren't you?

17 A We are friends, **yes**.

18 Q Play golf together, is that right?

19 A **Yes**.

20 Q Did Mr. Albert tell you that Dr. Choi
21 testified in this case that the cord was
22 compressed around the baby's body, did he tell
23 you that?

24 A No, sir.

25 Q Where **did you** get that fact?

1 A My knowledge. My knowledge of breech
2 births, breech deliveries.

3 Q You assumed that because this was a
4 breech birth, that this particular cord
5 probably was around the baby's body, is that
6 what: you're telling us?

7 A I don't know if it was around the baby's
8 body at all. I know that cord compression
9 occurs when that breech gets deep down into the
10 pelvis.

11 Q But you told the jury in this case that
12 the cord was depressed, in this case, that
13 Eric's cord was depressed, isn't that what you
14 said in direct examination?

15 A I said that the *cord* was compressed, not
16 depressed.

17 Q All right. Compressed.

18 A And I gave as an example when I showed
19 the boney pelvis and the breech, as I
20 demonstrated to the jury, of how the cord could
21 be.

22 Q But you don't know whether it was in this
23 case, isn't that right?

24 A I don't know where the location of the
25 cord was, but I do know that in this case that

1 cord was compressed.

2 Q You know that it was compressed in this
3 case?

4 A Yes .

5 Q How do you know that?

6 A That baby came out extremely ill and sick
7 and could only have gotten it one way, and that
8 was by anoxia or a lack of oxygen to it, and
9 the only way that that could have happened was
10 for it not to have received oxygen from the
11 placenta or the mother, and the only way that
12 could have happened is by cord compression.

13 Quite possibly the reason that the baby
14 was limp could have been excessive amounts of
15 anesthesia, the Penthrine and the nitrous oxide
16 and the narcosis from the Dermerol,

17 Q So there are a lot of reasons that could
18 have been related to the anoxia, isn't that
19 right?

20 A No, there was only one cause, and that
21 was the cord compression. There are a lot of
22 other reasons why the baby took perhaps as long
23 to respond, that's right.

24 Q Isn't then the use of Narcan, isn't that
25 a possible basis for the anoxia?

No, Narcan isn't the cause of anoxia. Is that what you said?

Q Yes. 'Isn't that one of the causes?

A Narcan?

Q Yes, the use of Narcan?

A The use of Narcan is to counteract the effects of a narcotic, such as Demerol, and Dermerol can have a narctizing effect. It can make a baby sluggish, as far as response, sluggish, as far as muscle tone, as far as movements are concerned, and certainly enough of a narcotic can make a baby not want to breathe or not breathe on its own, and it has to be stimulated.

Narcan is a narcotic antagonist, and it's used to reverse some of these depressant effects on a fetus.

Now, it is well known that a baby compensates when it has a lack of oxygen relative or complete lack of oxygen by shunting blood towards the brain, which is the vital thing that has to persist, and it shunts it away from things such as muscle, and if Narcan was given, and I believe the records show that it was given, it was given intramuscularly, as

1 Narcan is typically given, and the muscle from
2 which the blood has been shunted away towards
3 the brain, the Narcan would have probably sat
4 around in the muscle and would not have been
5 distributed to the baby,

6 So, I don't. think that the baby would
7 have gotten the benefit of the Narcan, as far
8 as the Demerol is concerned.

9 Q How about the use of the anesthetic,
10 couldn't that cause anoxia or hypoxia at: birth?

11 A No.

12 Q The injection of an anesthetic into the
13 mother, wouldn't that cause some deprivation of
14 oxygen to the brain of the baby?

15 A No, I don't see how that would have
16 occurred or caused anoxia,

17 Q I'm not asking you whether that
18 occurred - -

19 A Oh. I'm sorry.

20 Q -- I'm asking you whether that isn't one
21 of the causes of hypoxia to a newborn?

22 A The mother was given two anesthetics, as
23 far as I could determine from the record,
24 Penthrane and nitrous oxide.

25 MR. WEISMAN: Objection.

THE COURT: Overruled .

1
2 A Both of these **cross** placenta and **get** into
3 **the** baby's circulation. The baby is in essence
4 **as** asleep as the mother is **asleep**.

5 If the baby cannot breathe because of an
6 excessive amount of anesthesia, then the baby
7 has to be breathed, artificial resuscitation,
8 artificial respirations have to be afforded the
9 baby with oxygen.

10 It's not the anesthetic that **causes**
11 hypoxia, but it might ~~be~~ the anesthetic that
12 adds to a baby's depression, **or** a lack of the
13 **baby** to respond quickly and to breathe on its
14 own.

15 Q All right.

16 Wall, Doctor, Dr. Choi testified here
17 that in his opinion -- and he delivered the
18 baby -- the cord **was** loose around **the** baby and
19 that there was no cord compression.

20 Would ~~tnat~~ **change** your **opinion**, if you
21 knew that fact?

22 A No, sir.

23 Q Even though the doctor **who** delivered the
24 **baby states** that, you still **say** that there **was**
25 cord compression, is that right?

1 A Yes, sir.

2 Q Is there anything in the record of the
3 hospital record that you had before you that
4 indicates there was cord compression?

5 A Yes, sir, the condition of the baby at
6 birth.

7 Q Other than that though. You assume that
8 though, do you not, Doctor, based upon the
9 condition of the baby at birth, then *you* relate
10 back and say, "There must have been cord
11 compression," isn't that how you arrived at it?

12 A I arrived at that conclusion based on the
13 things that I've told the jury before, and that
14 is the 30 minutes of pushing, the body being
15 deep in the pelvis and the cord having to be
16 compressed during that period of time, and
17 particularly when the baby's trunk is out and
18 the cord is stretched and also compressed and
19 isn't working at all, and the head's still
20 being in the vagina or the lower uterine
21 segment still having to be delivered, all of
22 that is consistent with a lack of oxygen.

23 Q And based on that, you say there was cord
24 compression?

25 A There was cord compression, yes.

1 Q This lack of oxygen to this Baby Eric, it
2 occurred, you just said, within a 30-minute
3 time frame, is that right?

4 A Yes.

5 Q Just before the baby was delivered?

6 A Yes.

7 Q Correct?

8 A That's correct.

9 Q And at that time, that's when this
10 asphyxia occurred, is that your testimony,
11 during this 301-minute period this asphyxia
12 occurred, is that correct?

13 A How are you defining "asphyxia"?

14 Q Well, how do you define it?

15 A Asphyxia is either a lack of oxygen
16 and/or circulation to a, in this instance, the
17 baby, such that there is an increase in carbon
18 dioxide levels, both intracellularly and
19 intravascularly, with a lowering of pH.

20 Q That's what occurred here, wasn't this
21 baby born with an Apgar 13

22 A Yes.

23 Q And did not the baby has asphyxia at:
24 birth?

25 A Yes.

1 a That's what I thought I asked. And that
2 occurred within the 3B-minute period before the
3 baby was born, you told us that?

4 A Right.

5 Q So that asphyxia then was an acute form
6 of asphyxia rather than a chronic form, is that
7 correct?

8 A If 30 minutes is 'being talked about as
9 being acute, yes.

10 Q Well, it is an acute form of asphyxia, is
11 it not?

12 A Yes.

13 Q And you're not aware, I believe you said
14 on your deposition, that you were not aware or
15 weren't familiar with the studies that
16 indicated that 80 percent or 80 to 85 percent
17 of babies that are born with asphyxia can be
18 resuscitated to normalcy, can be normal at the
19 end of the proper resuscitation effort, you
20 weren't aware of that, were you, at: the time we
21 took your deposition?

22 A Can you let me know where I said that?

23 Q Yes, sir. On Page 75 of the transcript
24 of your deposition.

25 A May I review it?

1 a Pardon me?

2 A Can I just take a look?

3 Q Sure. Line 1.

4 A That's correct. May I clarify that?

5 Q Listen to the question, Doctor: "You're
6 familiar in fact with studies that indicate
7 that 88 percent of babies with Apgar scores of
8 1 at one minute, if properly resuscitated, come
9 out with no brain damage whatever and are
10 entirely normal children, are you not;?"

11 And your answer was: "No. As a matter
12 of fact, I think that that was from the
13 testimony of Dr. Edelberg, that I obtained that
14 88 percent from. I am not familiar myself with
15 the literature that says that."

16 And then Mr. Weisman asked you: "Do you
17 disagree with it?"

18 And you said: "I have no basis from
19 which to agree or disagree,"

20 Isn't that what you said at the time of
21 your deposition?

22 A That's exactly what the deposition said
23 that I said, and I asked you if I could clarify
24 that statement.

25 Q When did you ask?

Do you want to clarify it now, you mean?

2 A Yes, I would like to clarify that.

3 Q All right. Go ahead.

4 A Yeah. As a matter of fact, the
5 literature that: I am familiar with and was
6 familiar with at that time says -- and this was
7 from the perinatal collaborative study,
8 October, 1986 was the article that reviewed the
9 study and made some other: comments, but it says
10 that: "Fetal recovery --"

11 MR. WEISMAN: I object to
12 this, your Honor.

13 THE COURT: Overruled.

14 Q Is this the article that Mr. Albert
15 referred to?

16 A No, sir, this is the article that I'm
17 familiar with.

18 Q This isn't the same one that you referred
19 to earlier, *the* October '86 article?

20 A No, this is a different one.

21 Q All right.

22 A It said that --

23 MR. STUHCDREMER: Objection
24 overruled, your Honor?

25 THE COURT: Yes.

1 a It said that infants with Apgar scores of
2 0 to 3 at five minutes found that 94 percent of
3 term infants were without cerebral palsy.

4 So, I agree. I don't know about 80
5 percent, but I know that 90 percent or more can
6 recover without ill effect, as a matter of
7 fact.

8 MR. WEISMAN: Withdraw the
9 objection,

10 Q So it's a higher percent?

11 A That's correct,

12 Q All right.

13 Now, you indicated on direct examination
14 here a few moments ago that in your opinion,
15 when the baby was born, it had permanent brain
16 damage, I believe you said? Is that what y'ou
17 told us?

18 A Yes.

19 Q Now, you don't know the extent of that
20 brain damage, do you?

21 A No, sir.

22 Q Could be, possibly it could be 1 percent
23 of that 100 percent of the entire brain, isn't
24 that true?

25 A Yes, sir.

1 Q You don't hold yourself out as an expert
2 in the field of determining when brain damage
3 is permanent or not permanent, do you?

4 A No, sir.

5 Q In fact, I believe you told us earlier in
6 the deposition that you thought that Dr.
7 Horwitz, who is a pediatric neurologist, would
8 be better: equipped or better able to respond to
9 that type of question, isn't that true?

10 A As to the permanency of brain damage?

11 Q Yes.

12 A Or when it occurred?

13 Q Whether in this particular case, whether
14 there was brain damage at the time of the birth
15 of Baby Eric?

16 A Oh, I don't think that -- Dr. Horwitz is
17 certainly a pediatric neurologist and deals
18 with brain injuries and understands them
19 perhaps far better than I, but I think that
20 there is irrefutable evidence here that there
21 was a significant period of time of lack of
22 oxygen, and in my medical training, a lack of
23 oxygen can and does cause central nervous
24 system and brain damage. There is no question
25 about that, and the baby inost certainly had

1 enough anoxia or lack of oxygen for a long
2 enough period of time to **have** caused permanent
3 brain damage. The extent of that brain damage
4 certainly cannot be determined **by** me,
5 particularly **at** that time, but **now** I think that
6 there is evidence of the significance of that
7 brain damage.

8 Q **Well**, didn't you answer questions of this
9 nature?

10 MR. ALBERT: **Where are we**
11 **at?**

12 MR. STUHLDTREHER: **Page 74.**

13 Q You were asked: "What is the
14 physiological progression that **takes place**
15 medically from the point of oxygen lack to the
16 end point of brain damage, are you aware of
17 that?"

18 **Mr. Albert: said: "In the fetus?"**

19 Question: **"In the fetus or the newborn?"**

20 And your answer was: "Once **oxygen** fails
21 **to be delivered in adequate amounts to the**
22 **brain**, then the brain cells are not able to
23 continue to live, they then become **irreparably**
24 **damaged** because they can't utilize the oxygen
25 in their metabolism and in their respirations

1 and they die. I think that's what causes brain
2 damage.'?

3 Question: "Is this the area that: you are
4 an expert in, particularly?"

5 And your answer was: "This is not an
6 area in which I am an expert."

7 Question: "The area of expertise that
8 should be called upon really for careful
9 explanation of it would more likely be a
10 pediatric neurologist, isn't: that so?"

11 And your answer was: "I would think that
12 a pediatric neurologist would understand the
13 scheme of anoxic brain damage better than I
14 would."

15 Now, Dr. Horwitz testified here that in
16 his opinion, in his judgment there was no brain
17 damage, permanent brain damage at the time Eric
18 was born, at the moment of birth. And you
19 disagree with that, is that what you're telling
20 the jury?

21 A Absolutely.

22 MR. STUHLDTREHER: That's all I
23 have, your Honor.

24 THE COURT: Mr. McNeal.

25 MR. MCNEAL: Yes, your
Honor.

CROSS- EXAMINATION OF DR. STEVEN M. KLEIN

BY MR. McNEAL:

Q Dr. Klein, as I understood your testimony, you did state that this was a big fetus, a big baby?

A In relationship to this woman's pelvis, yes.

Q Yes, Under those circumstances, what is your opinion as to whether or not Dr. Choi should have undertaken another procedure other than the delivery which was attempted?

A Well, it's my opinion as an obstetrician that there were several times throughout the woman's hospitalization where Dr. Choi should have done a Cesarean section, in my opinion.

Q That Cesarean -- how is a Cesarean section accomplished, would you explain that to the jury?

A Yes. A woman is given an anesthetic, one of various types of anesthetics, so that: anesthesia, pain free, an incision is made through skin down to the level of the uterus itself, the bladder, which is intimately involved with the uterus is pushed down well

1 away from the front of the uterus, and then the
2 uterus **is** entered, the uterus **is** entered with a
3 knife, and it's either in an up and down cut or
4 in a cut, a transverse cut, horizontal cut, and
5 the baby **is** then delivered,

6 This happens, the baby in a **breech**
7 **situation is delivered** with much of the same
8 maneuvers that a breech is delivered vaginally,
9 **with** the exception, of course, that **the** head,
10 if it seems to be difficult in removing, the
11 incision in the uterus can be made larger and
12 the **head** can then be removed.

13 So if you're delivering a breech **through** a
14 Cesarean section, it's easier and quicker to
15 deliver the baby, but nonetheless, the baby can
16 still **be** injured even with a Cesarean section,
17 again, because you're doing the **same** maneuvers
18 **with** the head and the arms and the legs, and
19 then finally delivering the **baby's** head. But
20 **it's** done in a **very** relatively short period of
21 time.

22 Q That's the real advantage of doing a
23 Cesarean, **is** that correct?

24 A Well, the **two advantages, one, that it**
25 can be done quickly before the baby suffers

from cord compression and anoxia for any length of time, and certainly it avoids the trauma, most of the trauma that breech babies sometimes undergo.

Q **And is it necessary that Piper forceps be used in a Cesarean or can the baby's head be delivered manually?**

A **A baby's head, in a vast majority of instances, is delivered manually without the need for forceps.**

Q **And the problem with forceps in a vaginal delivery is what?**

A **Well, in this particular instance the forceps that were applied to a baby that was already acidotic, asphyxiated -- these are all phenomenal terms, and I applaud you if you're able to understand them -- but a baby is rather ill, and its brain is rather ill, and it's been with this lack of some oxygen or a lack of oxygen and it's becoming swollen because of that, and forceps are applied, and the squeezing effect in and of itself in a baby's brain or head that has been exposed to this lack of oxygen could be dililitarious, in that it could cause hemorrhages within the capillaries**

|

1 in the brain itself.

2 So not only could the oxygen deprivation
3 cause a problem, but the forceps squeezing the
4 baby's head can cause a problem. But that
5 would be the trauma from the Pipers, from the
6 forceps, if that happened.

7 Q Is it the obstetrician who determines the
8 type of anesthesia to be used in a delivery?

9 A Yes.

10 Q What other types of anesthesia can be
11 administered other than the general anesthesia
12 that was chosen apparently by Dr. Choi in this
13 case?

14 A Well, one can use a pudendal block, which
15 is a local infiltration of a Novacaine like
16 material through the vagina or through the
17 buttock area to the nerves that affect mainly
18 the vagina.

19 This is sometimes incomplete. A patient:
20 may experience severe pain even with a pudendal
21 block. This is a local. Or the patient could
22 receive what's called an epidural or a caudal,
23 which is the same as an epidural except that
24 the placement is different, medicine is placed
25 around but not into the spinal canal or where

1 the cerebral spinal fluid is, and by placing
2 the medicine around this area, it bathes the
3 nerves, bather; the nerves, the nerves then pick
4 up this medicine and are anesthetized, the pain
5 fibers are anesthetized, she doesn't feel pain.

6 Or she could have been given a spinal
7 anesthetic, where medicine is placed actually
8 into the spinal canal, This then not only
9 takes away the pain, but it takes away her
10 ability to move, at least from this part of the
11 body, which is >subzyphoid, down, and of
12 course, anesthetizes her completely, but if I
13 remember correctly, Mrs. Hawkins said she did
14 not want a spinal.

15 Q That's correct.

16 Did Dr, Choi, was Dr. Choi the one who
17 decided that the anesthesia that had been
18 administered should be stopped and the mother
19 revived in order to do more pushing?

20 A That was my -- that's what I gleaned from
21 reviewing the records, that the anesthetic that
22 was given at first was given too early.

23 Dr. Choi couldn't deliver the baby,
24 couldn't get -- ha didn't describe it. So, I
25 don't know, But apparently couldn't deliver

1 the baby at that time, and therefore decided to
2 have the mother wake up and enlist her help by
3 pushing with her abdominal muscles to push the
4 baby down further into the birth canal.

5 Q I believe the testimony and the evidence
6 is that at the time Dr. Choi was in the
7 delivery room, he saw that the buttocks were
8 already showing beyond the vagina, and it was
9 at that time, as I understand the testimony and
10 evidence, that he wanted *the* mother to be
11 awakened.

12 Does that cope with what you would have
13 done under those circumstances with the
14 buttocks effacing?

15 A I would have been extremely frightened
16 under those circumstances.

17 MR. WEISMAN: Objection.

18 THE COURT: Overruled.

19 Q Rut what would you have done?

20 A I --

21 MR. WEISMAN: Objection.

22 THE COURT: Overruled.

23 A If the buttocks were showing and the baby
24 was still undeliverable, I would have had one
25 of two choices -- one of three choices, total

1 breech extraction while the mother was still
2 anesthetized, which is a mechanical means of
3 pulling the baby down manually, decomposing it,
4 it's arms and it's legs and maneuvering to get
5 the baby out, fraught with a great deal of
6 potential fetal trauma.

7 I could have, while the mother was still
8 under a general anesthetic, pushed the baby
9 back up actually into the birth canal, up into
10 the uterus, because part of the body was out of
11 the uterus, could have pushed it back up and
12 done a Cesarean section at that time, or have
13 allowed the mother to waken and push some more,
14 only if I had evidence that the baby's heart
15 rate was still going along well, and I would
16 have probably, in 1986, have obtained some
17 blood from the baby's buttock area and tested
18 it for pH acidosis and oxygen content to give
19 me a better hint as to how the baby was doing
20 at that time.

21 Those would have been the choices that I
22 would have had, and I probably would have
23 chosen to push the baby back up and do a
24 Cesarean section.

25 Q Did you read in the hospital records

1 anything that had any report of the other
2 having difficulty with the first birth?

3 A No. Well, I didn't read anything in the
4 hospital records except that somebody took an
5 admitting history and physical. I don't know
6 who that **was**, And no, as a matter of fact, it
7 did not show that he had any trouble with her
8 first **baby**, but upon review of the deposition
9 of Dr. Edelberg, he said khat -- he **said**, Dr.
10 Edelberg said that ~~she~~ had delivered vaginally
11 with difficulty, her first baby, which was **6**
12 pounds 11 ounces, but I don't know the
13 documentation of that.

14 Q Nor what the difficulty was with the baby
15 after delivery?

16 A Or whether there **was** any, right,

17 **a** Now, in 1974, at that time, based upon
18 what you **have** learned and what **you** have read,
19 at that time was bag and masking a choice of
20 resuscitation?

21 A Oh, **yes**, sir, bag and masking **was** very
22 common and **still** is common, particularly in
23 situations where people **feel** a might bit
24 uncomfortable about endotracheal tubes down
25 little infants, but bag and masking is a

1 tine-proven method of resuscitation of
2 adequately breathing for the baby and giving
3 the baby oxygen through that, yes.

4 Q What are the dangers that are involved
5 with doing endotracheal intubation?

6 A Well, there are dangers and there are
7 good points as well, but the dangers that may
8 occur are injury to the vocal cords, injury to
9 the larynx, hemorrhage by poking the tube down
10 into the laryngeal area or the vocal cord area
11 injuring the structures, perhaps putting the
12 tube down too far into one bronchus and
13 therefore underaerating one lung. These are
14 all potential dangers. It has to be done, that
15 is, intubation, with an endotracheal tube has
16 to be done by somebody who is familiar with
17 doing it.

18 Q And the laryngoscope size has to be
19 determined also, is that correct?

20 A Yes, it has to be small enough to fit
21 into the little baby's mouth and push the
22 tongue out of the way and visualize the vocal
23 cords and how the passage of the endotracheal
24 tube. So that takes a bit of experience to
25 choose which one,

1 Q And whereas using the bag and mask, the
2 effect is immediate, as soon as the delivery is
3 accomplished, the bag and mask procedure can be
4 undertaken immediately?

5 A That's correct.

6 Q And the other endotracheal intubation
7 takes time of choosing the laryngoscope in
8 getting the proper size of the endotracheal
9 tube, so that all of those things in a case
10 such as this, the oxygen will be administered
11 almost immediately with a bag and mask, is that
12 correct?

13 A That's correct.

14 Q Now, what part does the placenta play
15 insofar as oxygen is concerned?

16 A Well, the total oxygen available to a
17 fetus, when it's in the mother, is through the
18 umbilical cord and it obtains the oxygen from
19 the placenta. So, it's entirely, the fetus is
20 entirely dependent upon the placenta for
21 oxygenation, for its oxygen.

22 Q And during the time of delivery, are
23 there pauses where the baby does not have
24 oxygen, in where the placenta is a barrier,
25 that does not let the flow of oxygen through

1 the umbilical cord?

2 A Well, it's *very* rare that a loss of
3 circulation through the umbilical cord would
4 occur in a vaginal delivery of a vertex or a
5 head first baby, but in breeches, when the
6 breech reaches -- when the breech from the
7 buttocks reaches the vagina and can be seen
8 protruding through the vagina, then the rest of
9 the baby must come relatively quickly because
10 it's at this time that the cord, the umbilical
11 cord is being squeezed and the amount of
12 circulation is diminished, the amount of oxygen
13 reaching the baby is diminished, and that's why
14 breech deliveries through the vagina are so
15 very serious and so risky.

16 Q And the use of Dermerol also plays a part
17 in affecting a delivery of the fetus, and
18 moreso where you have this type of delivery
19 that was undertaken by Dr. Choi, is that
20 correct?

21 A Well, the Dermerol is an additive, as far
22 as the baby being able to respond. It may
23 delay a baby that would respond somewhat more
24 quickly, yes. It would be additive to a lack
25 or a deprivation of **ax**ygen. It wouldn't be the

1 cause of the deprivation of oxygen though.

2 Q And what is the obligation of the
3 anesthesiologist in the delivery room, what
4 part does he play and to whom should he be
5 directing his attention?

6 A well, the anesthesiologist is directing
7 his attention first and foremost to the mother
8 to make sure that she is well oxygenated with
9 her general anesthesia to make sure she is
10 okay, that her heart rate is okay, that she's
11 getting an adequate amount of oxygen, is
12 breathing well and so forth.

13 If he has an assistant, then that
14 assistant can take over for the mother while he
15 then attends to the infant's resuscitation, and
16 resuscitating the infant is much the same as
17 resuscitating or keeping the mother healthy,
18 and that is, he's got to establish an airway
19 and he's got to make sure that the baby is
20 being adequately breathed, that oxygen is being
21 delivered to the baby's lungs, and he's got to
22 make sure that the baby's heart is beating.

23 These are the main things that he's
24 responsible for.

25 Q And in this case, from what you read from

1 the records and so forth, what is your opinion
2 relative to Dr. Reyes' participation?

3 A Well, I think Dr. Reyes attended to the
4 baby when Nurse Gerhardstein finished with her
5 suctioning and bag breathed the baby with
6 oxygen, in essence, artificial resuscitation
7 until the baby finally had spontaneous
8 respirations at 15 minutes.

9 Q Based upon what you read, do you see any
10 fault or other things that Dr. Reyes could have
11 done under the circumstances?

12 A Well, I believe that he could have given
13 bicarbonate to the baby. This would have
14 necessitated either catheterizing the part of
15 the umbilicus, that's the umbilical cord that's
16 left in the baby, either to catheterize it with
17 a catheter and push it into the baby and then
18 inject medicine through that, which again would
19 take some expertise, but without the expertise,
20 one could generally inject with a needle right
21 into the umbilical, vessels of the cord left on
22 the baby the bicarbonate, and this bicarbonate
23 would serve to buffer, if you will, the
24 acidosis, the build-up of acids.

25 The baby, when it's not getting enough

oxygen, has to rely on what's called anerobic glycolisis. Fancy word. It's still metabolizing, but instead of using oxygen, they are using different substrates, and instead of oxygen they are using a different method of obtaining energy that's vital to cell health,

And the build-up of acids, elastic acid, peruvic acid is built up acid, isn't very good for the environment, Cells, it has to be buffered with the base, hydrochloric acid for instance can be buffered with sodium bicarbonate, and that's to **decrease** the acidity to raise **the** pH, *so* that the cells are then in **a goad**, healthy environment,

Well, we **know** for a fact that breathing for the baby with a good amount of oxygen can accomplish almost the same thing. It in essence, by breathing the baby, you push oxygen in, but carbon dioxide, which is **part of** the acid **that's** built **up** in the baby is gotten rid of, and by doing this enough, you effectively help the baby get rid of **this** metabolic acidosis and create a good state for the baby's cells and for the baby's environment,

The bicarbonate would have allowed that

1 to perhaps have been accomplished a lot sooner,
2 I believe, but it's also a fact that
3 bicarbonate, if given excessively, can causa
4 brain hemorrhage.

5 So, you're really, really in a quandry
6 here, particularly if you're not experienced in
7 giving bicarbonate.

8 So, the best thing to do is to do what
9 you can do, as best as you can do it, and that
10 is to resuscitate the baby by artificial
11 resuscitation with bag and mask, which is
12 probably the safest, and I believe that that's
13 what Dr. Reyes did.

14 Q That's what he did in this case, is that
15 correct?

16 A I believe that's true.

17 MR. McNEAL: Thank you
18 very much.

19 THE COURT: Fred, I don't
20 think you can do yours in five minutes.

21 MR. WEISMAN: No, that's
22 right, sir.

23 THE COURT: All right.
24 We'll take our lunch break now at this
25 point.

All right, David, we'll take our lunch break, 1:00, please,

Mrs. Melnar, if you'll remain, we'll discuss your problem after the jury is out. All right?

All right, ladies and gentlemen, please rise.

---oOo---

(Thereupon, the jury was excused
fax the luncheon recess,
whereupon, the following proceedings were had in open court:)

---oOo---

THE COURT: For the record, the Court received a letter from Juror No. 8, Pat Melnar. The Court received a letter on Wednesday, just before we took our holiday recess, that is, November the 25th.

Again, for the record, the Court has circulated the letter to all of the lawyers involved in this matter.

To sum up the letter, Mrs. Melnar requests that she be relieved from her duty as Juror No. 8 in this case due to