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IN THE COURT OF COMMON PLEAS
CUYAHOGA COUNTY, OHIO

- - - - - x
BIANCA KEYES, etc., et al.,
Plaintiffs,
-against- Case No.
JOHN P. IAFELICE, M.D., et al., 357504
Defendants.
- - - - - x

DEPOSITION of REBECCA BAERGEN, M.D., taken
by Defendants via telephone, at New York
Presbyterian Hospital, Weill Medical College of
Cornell University, 525 East 68th Street, New
York, New York 10021, on Wednesday, June 19, 2002,
commencing at 1:10 o'clock p.m., before Karen Ann
Carney, a Certified Shorthand (Stenotype) Reporter
and Notary Public within and for the State of New
York.

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

(Via telephone.)

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(Via telephone.)

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1 Baergen

2 R E B E C C A B A E R G E N, called as a
3 witness, having been first duly sworn by
4 Karen Ann Carney, a Notary Public of the
5 State of New York, was examined and
6 testified as follows:

7 DIRECT EXAMINATION

8 BY MR. BECKER:

9 Q Good afternoon, Doctor. Would you
10 state your full name, please.

11 A Dr. Rebecca Nanette Baergen.

12 Q What is your business address?

13 A It is 525 East 68th Street, New
14 York, New York 10021.

15 Q All right. When were you contacted
16 regarding the Keyes case?

17 A In November 1999.

18 Q What materials did you review?

19 A I primarily reviewed the slides of
20 the placenta and the pathology report, but also a
21 discharge summary, the complaint, some expert
22 reports, and I believe at least one deposition.
23 Yes, one deposition.

24 Q Which? Who was the deponent?

25 A I'm going to spell it.

1 Baergen

2 T-a-r-i-q-s-i-d-d-i-q-i.

3 Q Okay. I think that's the
4 maternal-fetal defense expert down in Cincinnati.

5 Can you tell from the front cover of
6 the depo, was it in Cincinnati?

7 A To tell you the truth, I don't have
8 the deposition anymore. I looked at it and didn't
9 really think -- usually depositions of other
10 experts are not relevant, and I usually discourage
11 people from sending them to me. So, I didn't keep
12 it, I have to say, because I didn't think it was
13 relevant. I don't have any notes or anything on
14 it.

15 Q Did you ask for a copy of the
16 complaint or was it just voluntarily sent to you?

17 A I didn't ask for it. I did not ask
18 for it; so, I would assume that was their decision
19 to send it to me.

20 Q All right. I have a copy of your
21 vitae. I don't see a date on it to see how
22 current it is. But did you happen to bring an
23 extra copy of your vitae?

24 A I'm in my office so I have my CV, my
25 most current copy on my computer, which I can

1 Baergen

2 print out or whatever.

3 Q Okay. Well, my copy shows under
4 Publications, 31, the last one looks like it was
5 co-authored with Benirschke; it says in
6 preparation, entitled, "Morbidity, mortality and
7 placental pathology in excessively long umbilical
8 cords."

9 My question, Doctor, is do you
10 believe that's the last article that you have
11 authored or co-authored?

12 A No.

13 (Telephone interruption due to
14 static.)

15 A I don't know if you heard me.

16 I said "no."

17 Hello? Can you hear me? Can you
18 hear me?

19 Q No.

20 A I said "no."

21 I guess you didn't -- couldn't
22 hear.

23 Q Sorry. I did not hear that.

24 So, would you be so kind -- what I
25 can gather from that answer is that there have

1 Baergen

2 been other articles that have been authored by
3 you; is that fair?

4 A Yes, that's true.

5 Q All right. Would you be so kind as
6 to, before the court reporter leaves, run off a
7 most recent copy and the court reporter can mark
8 it as an exhibit. Is that fair enough?

9 A That's fine.

10 Q Are there any articles, whether
11 recent or those appearing in the vitae I have in
12 hand, that you feel are potentially relevant to
13 your opinions in this case or the subject matter
14 of this case?

15 A Not specifically relating to this
16 case, no.

17 Q No?

18 A Not specifically relating to this
19 case.

20 Q Do you have notes, Doctor, as a
21 result of your review of the material, including
22 the slides?

23 A Yes, I do.

24 Q All right. Are they typewritten or
25 are they handwritten?

1 Baergen

2 A They are typed.

3 Q All right. How many pages are the
4 notes?

5 A Well, what I have is the notes of my
6 review, which is really relating to my
7 interpretation, and is really only a few lines.
8 The pages of notes that that is on is about one
9 and a half pages and basically has notes taken
10 from records. And the rest of it is just kind of
11 what I've received, what dates; the fact that, you
12 know, I received such and such on such and such a
13 date. So, it includes all that, as well as the
14 few lines of my actual notes.

15 MR. BECKER: Okay. Can we
16 mark that -- we'll mark the CV as 1;
17 and we'll mark your notes as 2-A and
18 2-B.

19 Would you do that, Ms. Court
20 Reporter?

21 THE WITNESS: You want the
22 first page marked as one exhibit and
23 the second page as another exhibit; is
24 that correct?

25 MR. BECKER: Let's mark the CV

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Baergen

as No. 1, when she prints it out at
the end of the depo for you, the
current CV. Let's mark her notes,
which are two pages, Page 1 being 2-A
as in "apple," second page 2 being B
as in "boy."

(Curriculum Vitae of Dr.
Baergen was deemed marked as
Plaintiffs' Exhibit No. 1 for
identification, as of this date.)

(Two pages of typewritten
notes of Dr. Baergen were marked as
Plaintiffs' Exhibit Nos. 2A through 2B
for identification, as of this date.)

A Okay. She marked them.

We're ready.

Hello?

(Telephone interruption due to
static.)

A Hello? Hello?

Q Yes.

A I think we have a really, really bad
connection. You keep not being able to hear us;
so, if you don't hear anything, that's what is

1 Baergen

2 going on.

3 Q Okay. What I'm doing is I'm
4 cranking up the volume on my phone right now. I'm
5 not sure that is going to help you at that end,
6 but me at this end. But, whatever.

7 Are the two exhibits marked?

8 A Yes, they are.

9 Q Doctor, handing you what has been
10 marked as Plaintiffs' Exhibit 2-A and 2-B, would
11 you identify them for the record?

12 A (Perusing documents.) Yes. I just
13 handed them to her and she marked them and she
14 gave them back to me.

15 Q What are they?

16 A As I said before, these are notes
17 that give dates that I received certain materials
18 or dates where I entered that I have received
19 these materials.

20 Q And you said there are only two
21 lines which really reflect your true
22 interpretation of the slides and/or material?

23 A Well, actually, I was in the middle
24 of speaking.

25 I guess again we're having problems.

1 Baergen

2 It has different dates of when I
3 received or when I entered these things. It also
4 has notes taken from the discharge summary and the
5 pathology report, and then there are three, a
6 little over three lines -- actually, three lines
7 of my review of the slides.

8 Q I would just like to concentrate on
9 those three lines that reflect your interpretation
10 of the slides.

11 A That's fine.

12 Q Would you read them to me slowly?

13 A (Perusing document.) It's not going
14 to go --

15 (Telephone interruption due to
16 static.)

17 MS. PETRELLO: I'm not hearing
18 anything.

19 Q Hello?

20 A We get this big static and then you
21 can't hear us. That's the way I guess it's going
22 to be.

23 (Perusing document.) The first
24 phrase says "Many NRBCs."

25 Q Okay. That means nuclear red blood

Baergen

cells?

A Yes, it does.

Q Okay.

A (Perusing document.) Then "Decidua capsularis-decidual vasculopathy involving several vessels."

Q What does that mean?

A The decidua capsularis is maternal tissue and it's a --

(Telephone interruption.)

A That's my phone. I'm sorry. It rings through. I can't do anything about it.

The decidua capsularis is a portion of the maternal tissue that comes away with the placenta that is in a certain location.

Decidual vasculopathy means there's abnormalities in those vessels, and I said "involving several vessels"; so, I saw these abnormalities in several of those vessels.

Q Okay. And when you say "several," first of all, what is the abnormality called and would you call this a mild, moderate or severe type of abnormality within the section of the tissue?

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2 A The abnormality is called decidual
3 vasculopathy, as I said, and it's not really
4 normally rated as to mild, moderate or severe; so,
5 I can't really do that.

6 Q What does that mean in lay terms,
7 the vasculopathy?

8 A Basically the decidual vessels,
9 these are maternal or the mother's vessels, and
10 these vessels are converted into what is referred
11 to as uteroplacental vessels. These are vessels
12 that come from the uterus and go to the placenta.

13 So, this is the mother's blood that
14 is going into the placenta and it supplies the
15 placenta with blood. This is where the fetus gets
16 all its nutrition, its fluid, oxygen, et cetera;
17 and the waste is taken away through the maternal
18 circulation, as well as through the uteroplacental
19 veins.

20 So, these are the vessels that are
21 supplying the placenta. If there is any problem
22 with those vessels --

23 (Telephone interruption due to
24 static.)

25 A If those vessels are not normal in

Baergen

some way, then the circulation to the placenta is going to be compromised and that can or may result in decreased perfusion of the placenta, and then obviously decreased perfusion to the baby, and potentially decreased, you know, oxygen, and so on and so forth.

Q Okay. How are they compromised?

A How is what compromised?

Q How are these vessels that you are seeing the abnormality in, how are they compromised?

A Well, the vessels have thicker walls. There's damage to some of the vessels.

See, normally -- to explain this, I have to actually go back and talk about what is referred to as normal physiologic conversion.

What happens to the decidual vessels initially is cells from the embryo, which are called trophoblastic cells that are derived from the embryo, these cells actually invade the maternal vessels, the decidual vessels, and they destroy the wall of the vessel and deposit certain materials in the vessel and they change it from a small, little artery that has a muscular wall that

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can constrict with a very small lumen or opening,
and convert it to a very widely distended vessel
that's like a rigid pipe that cannot constrict.

And the reason that this is needed
is, as you can imagine, you know, you don't want a
small vessel supplying the placenta; you want a
lot of blood going to the placenta.

And the other thing is if something
happens to the mother and her vessels constrict
and her blood pressure goes up for some reason or
whatever, you don't want that to affect the
placenta; so, that's why the muscular coat is
somewhat destroyed.

Now, this causes some specific
histologic changes in the vessels. The vessel
gets bigger, these trophoblastic cells are
infiltrated into the wall, you get deposition of
fibrinoid material and other things. Those are
the main things.

Now, if that doesn't normally
happen, then those vessels are not going to supply
blood as well as they could if they were fully
converted in a physiologic manner.

Now, decidual vasculopathy is a

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2 general term that refers to --

3 (Telephone interruption due to
4 static.)

5 A Hello? Hello? I can hear the sound
6 and I know that you are not receiving me, so I
7 stopped.

8 So, decidual vasculopathy is a
9 general term that refers to basically any change
10 that is not the normal physiologic conversion and
11 what the vessel should normally look like.

12 Now, I can't tell you specifically
13 in this case what each vessel showed because I
14 didn't really make notes of that. But, generally
15 speaking, I can tell you that I recall that the
16 vessel walls were thicker than they should be;
17 they weren't small, thin vessels; the vessels'
18 lumens, the openings were smaller.

19 (Perusing document.) And further on
20 in the note there was question, "acute atherosclerosis,"
21 and this is a change whereby macrophages, a
22 certain type of cell, a foamy macrophage with
23 foamy cytoplasm is deposited in the endothelium of
24 the vessel wall, and this is something that is
25 kind of specific to abnormalities in these vessels

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in the placenta.

Q Okay. I want to make sure that --

(Telephone interruption due to
static.)

Q Doctor?

A Yes?

Q I want to make sure I understand.

Have we covered all the types of
abnormalities that you see in the placenta?

A No.

Q The NRBCs, the decidual
vasculopathy, and was there a third abnormality?

A Well, no. I mean, you asked me to
go over each thing individually, and I was talking
about the next finding of decidual vasculopathy.

Basically we're not talking about
every abnormality I saw in the placenta.
Specifically you wanted me to read my notes and to
go over each thing.

Q You're right. And I apologize and
I'm jumping around and I don't mean to do that.

Go ahead and finish reading your two
or three lines. Then I'm going to ask you some
questions.

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2 A Okay. (Perusing document.) The
3 next phrase or whatever, is "CHD," which is an
4 abbreviation that I just used for chronic
5 deciduitis, which means there is chronic
6 inflammation in the decidua, and that is often
7 associated with the previous change that I just
8 mentioned, the decidual vasculopathy.

9 The next thing is question mark,
10 "acute atherosclerosis in one vessel."

11 And I just described that to you,
12 because that's kind of part of the decidual
13 vasculopathy.

14 Then the next is "Villi mature."

15 What this is referring to is that
16 the chorionic villi, which are the basic unit of
17 the placenta that you see under the microscope,
18 that they are mature and this is a mature placenta
19 and a mature baby, so that is consistent.

20 Then the next phrase says, "Foci of
21 agglutination and microinfarcts consistent with
22 ischemia, generally recent." And this whole
23 phrase is basically saying these are some
24 histologic changes that are indicative of
25 ischemia, which means lack of blood flow, and

Baergen

these changes are generally recent.

Q Can you time the changes?

A Well, the changes in the vessels have probably been going on for, you know, probably months, because usually this physiologic conversion and those kind of abnormalities happen very early in gestation and then -- actually, I think the latest that you get those kind of changes is really around 16 weeks or so. So, those actual changes really date way back.

The agglutinations and microinfarcts are relatively recent; you know, probably one to two days old.

Q What is the basis for that conclusion or that opinion?

A Well, when ischemic change occurs in the chorionic villi, one of the first things that happens is the villi just kind of glob on to each other. And that's what I'm referring to when I say agglutination. So, it's like they kind of get sticky. They don't show any degenerative change. And this is something that is seen really within the first 24 hours.

And if you follow that out,

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ultimately you would see that that tissue would probably become infarcted and dead due to lack of blood flow. So, this is one of the earlier changes of ischemia.

The microinfarcts are really little areas -- "micro" meaning very small -- little areas that are actually starting to undergo actual infarct. So, those are a little bit older than the agglutination.

And just based on looking, generally looking at tissue and how long it takes tissue to undergo certain changes, that's how you can estimate how long it takes for an infarct to develop.

(Telephone interruption due to static.)

Q Okay. One to two days old and --

(Telephone interruption due to static.)

Q Have you finished your notes, Doctor?

A Yes; that's everything under my notes.

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2 Q Okay. In lay terms, what are the
3 abnormalities that you see in this placenta?

4 First would be the NRBCs?

5 A Well, yes, that's one.

6 Q Okay. Can you quantify the number
7 of NRBCs?

8 A You can't really do that on a
9 histologic section, but when I saw the nucleated
10 red blood cells, I asked for the lab results on
11 the baby after the baby was born, and that gives
12 you an absolute number. So, I can't do that from
13 looking at the section.

14 But I said many. In other words,
15 you know, if there were just a few, I would say a
16 few. If I thought there were moderate, I would
17 say moderate. And this time I thought there were
18 many.

19 You can't really -- I have heard of
20 some people trying, but I don't believe you can
21 reliably quantitate it on a tissue section.

22 Q Now, do you subscribe to Altshuler's
23 writings on aging NRBCs?

24 A I don't know. You are going to have
25 to be more specific about that. What specifically

Baergen

are you referring to?

Q Let me ask you this: Are you able to age how long the NRBCs have been within circulation?

A Well, you know, the problem with nucleated red blood cells is that there's been a lot of papers written in the literature about the timing, how long it takes for them to appear, and the timing has been kind of all over the place; some studies I've looked at indicating that it, you know, just takes a matter of 30 minutes or something.

These studies have some design flaws, so they may or may not be true.

Other studies say that it takes longer.

People have given a lot of different opinions. So, I don't think you can reliably say absolutely that it takes a certain period of time.

Now, I'm of the opinion, and I think people would in general agree with this, that the higher the number, the more there are, the longer it has to be; because, you know, this is a response to hypoxia, usually, in the fetus, so

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2 there's a response and the nucleated red blood
3 cells are put out into circulation and it takes
4 time for them to mount to a high level. So if you
5 have just got a few, I mean, that's going to take
6 less time than many.

7 You know, I feel that it is more
8 than just a few minutes or an hour or two.

9 As I said, some people have the
10 opinion it's 24 or 48 hours, and some people have
11 the opinion it's only 30 minutes.

12 (Telephone interruption due to
13 static.)

14 Q Where, Doctor, where do you feel --
15 are you able to give me an opinion within a
16 reasonable degree of medical probability as to the
17 age of the NRBCs given the numbers?

18 A Well, I think I just did to the best
19 of my ability.

20 Q Did you say 24 to 48?

21 A No. That's what I said some people
22 said. I explained it in the best way I know how.

23 Q Okay. I know -- and you're doing
24 very good. But I'm trying to understand where you
25 fall in this range here, some 30 minutes to 24 to

1 Baergen

2 48 hours. How do you feel about it? Is it six
3 hours, twelve hours, likely?

4 MR. MOSS: I'm just going to
5 object. I think the doctor already
6 answered the question, as she
7 indicated.

8 Doctor, if you have anything
9 else to add or clarify, feel free.

10 A I can just repeat what I said, which
11 is that I think that the higher the number, the
12 more time it takes, and that I don't think it is
13 just a few minutes, like 30 minutes, and it could
14 be as much as, you know, 24 hours.

15 Q Okay. It could be. Do you have an
16 opinion in terms of probability as to whether it's
17 at least 24 hours?

18 A I cannot give you a percentage or
19 probability. I answered it really the best I
20 could.

21 Q Fair enough.

22 So, we're kind of reviewing the
23 abnormalities that you find in this placenta. We
24 talked about NRBCs now.

25 Now let's move to the next one.

Baergen

Just restate -- is it the decidual vasculopathy,
is that the next abnormality?

A (Perusing document.) Yes. That's
the next abnormality that is listed in my notes.

Q And can you age that at all and --
first of all, can you age it at all?

A Well, again, I already did that. I
said the changes -- just like when I was talking
about the agglutination and microinfarcts, I
already aged those and I told you what I thought
about the decidual vasculopathy, that this is a
change that happens early in pregnancy; so, that's
probably been there for many months.

Q Okay. Next abnormality? Is it the
chronic deciduitis?

A (Perusing document.) Yes, that's
the next one listed in my notes.

Q Okay. And can you age that?

(Telephone interruption due to
static.)

A That's --

Q Can you age that, Doctor?

A I'm trying to. We're getting a lot
of static.

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1 Baergen

2 The chronic deciduitis, I don't
3 know, it's within a few days, probably. It's
4 actually a finding that is just associated with
5 other findings and I don't think particularly
6 significant because it's a common finding in many
7 placentas.

8 Q Okay. How about the acute
9 atherosclerosis?

10 A That, again, goes along with the
11 decidual vasculopathy. It's part of that whole
12 spectrum. It really falls under that.

13 Q Okay. The ischemic changes we
14 talked about at the end. Is that the last
15 abnormality?

16 A Yes. I already talked about the
17 agglutination and the microinfarcts and gave
18 timings on those.

19 (Telephone interruption due to
20 static.)

21 Q The last abnormality is the ischemic
22 changes?

23 A I'm sorry, again, we're getting
24 static. I did answer, but I'll repeat it.

25 The agglutination and microinfarcts

Baergen

are the last changes listed in my notes, and I did already comment about the timing on those.

Q Is that one to two days?

A Yes.

Q Okay. Now, are you going to be rendering any opinions as to whether or not any of these abnormalities had real clinical significance for this fetus?

A Well, first of all, I just want to say, I mean, there are some other abnormalities that aren't listed here. But if you want to just talk about these --

Q Well, I need to know about every abnormality you are going to be testifying to at trial.

A Well, you didn't ask me about every abnormality I saw; you asked me what was in my notes.

Q Okay. I'm not trying to argue with you, Doctor.

(Telephone interruption due to static.)

A I'm just --

Q What other abnormalities do you see?

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2 A I'm just trying to answer the exact
3 questions you ask. I'm not trying to be, you
4 know, smart or anything.

5 (Telephone interruption due to
6 static.)

7 A (Perusing document.) The other
8 abnormalities that are present are increased
9 vascularity in the villi, and hypercellularity.

10 Q Okay. Tell me what they mean and
11 tell me if you can age them.

12 A Well, those are changes that, in
13 this context, are consistent with maternal
14 diabetes, and since maternal diabetes is a
15 condition that is not something that occurs over a
16 short period of time, it is likely that these
17 changes are not recent, but are, you know, longer
18 than a few days. But I can't be specific because
19 no one that I know really concerns themselves with
20 dating those.

21 Q Okay.

22 A That's the only other abnormalities
23 that are not listed in my notes.

24 Q Doctor --

25 MR. MOSS: Doctor and Mike, I

1 Baergen

2 don't mean to get in your way, but I
3 wrote down one of the things that you
4 mentioned in your notes was decidua
5 capsularis, and I don't think we
6 talked about that.

7 THE WITNESS: Well, that is
8 just a location in the placenta.

9 MR. MOSS: As I said, I just
10 was going back to my notes.

11 THE WITNESS: Right. Well,
12 that was just to tell me where the
13 vessels were that were abnormal.

14 MR. BECKER: Okay.

15 MR. MOSS: Sorry, Mike.

16 MR. BECKER: Okay.

17 BY MR. BECKER:

18 Q Doctor, I have your report that is
19 dated October 25, 2000. Do you have that at hand?

20 A Yes, I do.

21 Q That's your only report that you
22 have generated on this case?

23 A That's correct.

24 Q Have you had an opportunity to
25 review this report recently?

1 Baergen

2 A Yes, I have.

3 Q Have you had an opportunity to
4 review this report recently?

5 A Yes, I have.

6 Q Do you want to make any changes or
7 amendments to the report?

8 A No, not really.

9 Q Okay. I may ask you -- I have a few
10 questions off of your report.

11 You say the nucleated red blood
12 cells indicate that the fetus suffered significant
13 intrauterine hypoxia, correct?

14 A That's correct.

15 (Telephone interruption due to
16 static.)

17 Q You are not suggesting or going to
18 have an opinion as to when the fetus sustained the
19 hypoxia?

20 A Well, I don't know what you mean by
21 that. What do you mean by the hypoxia?

22 Q Are you going to be rendering an
23 opinion as to when the hypoxia began?

24 A No.

25 Q Are you going to be rendering any

1 Baergen

2 opinion as to whether or not the hypoxia was
3 clinically significant to this fetus?

4 (Telephone interruption due to
5 static.)

6 A The only --

7 Q Did you hear my question?

8 A Yes. We have static again. I hope
9 you realize that every time there is a pause, it's
10 because there's static and that I'm not just not
11 answering.

12 Q I'm not suggesting that you are not
13 answering. I understand. I sense that you are
14 trying to be cooperative.

15 I just want to move this along.

16 Did you understand my question and
17 did you answer the question?

18 A No. I was waiting for the static to
19 die down.

20 Q Okay.

21 A Can you ask the question again?

22 Q I will quickly ask the question
23 before static resumes.

24 I want to know whether or not you
25 are going to be rendering any opinions at trial

1 Baergen

2 that will be to a reasonable degree of medical
3 probability as to whether or not the hypoxia that
4 you're referencing in here was clinically
5 significant to the fetus.

6 A Well, it was sufficient hypoxia to
7 cause a marked elevation in the nucleated red
8 blood cell count; so, it certainly could be
9 clinically significant. Whether it's clinically
10 significant or not is really out of my area of
11 expertise, to really define that. That really is
12 defined by the baby after the baby is delivered
13 and whether the baby experienced hypoxia of a
14 significant nature that caused a significant
15 problem, and I can't answer that. That's out of
16 my area.

17 Q Right.

18 (Telephone interruption due to
19 static.)

20 Q And what also would be out of your
21 area is whether the fetus in this case had the
22 ability to compensate for the hypoxia for at least
23 some period of time, correct?

24 A Well, the nucleated red blood cells
25 are a compensatory response to hypoxia.

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1 Baergen

2 What I can't answer is how
3 successful that compensatory response was.

4 Q Fair enough.

5 In the last sentence of the second
6 paragraph you do state that the placental
7 perfusion and hypoxia were present for at least 24
8 hours.

9 Is that an opinion that you hold to
10 a reasonable degree of medical probability or is
11 it just one of the possibilities?

12 A Well, you know, I think that the
13 decreased placental perfusion is definitely at
14 least 24 hours old. I think that there was, to a
15 reasonable degree of medical probability, some
16 hypoxia for at least 24 hours.

17 The thing is, is as I told you, it
18 takes a longer time for a higher level of
19 nucleated red blood cells to appear. So, you
20 know, that's why since there is such a high level,
21 it probably had to actually start becoming
22 elevated further back. So that's what the 24
23 hours refers to.

24 It doesn't indicate that the maximum
25 level of nucleated red blood cell count and, thus,

1 Baergen

2 hypoxia was 24 hours prior.

3 Q Okay. The maximum level of hypoxia
4 nucleated red blood cells could have been eight
5 hours prior to birth?

6 MR. MOSS: Objection.

7 MS. PETRELLO: Objection.

8 MR. MOSS: You can answer,
9 Doctor.

10 A Well, as I said, I can't really say.

11 Q Okay. Of the abnormalities we
12 talked about, Doctor, are most of them
13 attributable to gestational diabetes?

14 A Some are, and some aren't.

15 Q Would you tell me which ones are
16 not?

17 A The evidence of decreased placental
18 perfusion, the changes in the decidual vessels;
19 and I'll say that the changes in the decidual
20 vessels, which is the decidual vasculopathy, is
21 really what caused the ischemic changes in the
22 chorionic villi, which were seen as the
23 microinfarcts and the agglutination. So, that's
24 all really one process. And those things aren't
25 specifically related to diabetes.

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2 The nucleated red blood cell count,
3 that's a little more problematic because a slight
4 elevation in nucleated red blood cells can
5 sometimes be seen in diabetes, and it's
6 questionable whether that indicates that infants
7 of diabetic mothers have a low level of hypoxia
8 all the time or not. And I can't answer that
9 question.

10 The other thing is the -- let's
11 see -- the hypervascularity and hypercellularity
12 is also a change seen in placentas where the
13 mother is diabetic.

14 Q Doctor, speaking generally about
15 gestational diabetes, is it true that that process
16 taxes the placenta as you proceed towards term?

17 A I don't know what you mean by
18 "taxes."

19 MR. MOSS: Objection.

20 Q That it challenges the placenta and
21 potentially compromises the placenta as the baby
22 gets towards term.

23 MR. MOSS: Object to the form.

24 Go ahead, Doctor, if you can
25 answer it.

1 Baergen

2 A I really don't -- I don't -- the
3 terms that you used don't really make a lot of
4 sense to me; so, I don't think I can answer.

5 Q Okay. Let's assume we're just
6 having a general conversation about gestational
7 diabetes and the placenta, the impact of that.

8 Are there any negative impacts of
9 gestational diabetes?

10 A Yes, there are.

11 MR. MOSS: Objection.

12 Go ahead.

13 Q And is the timing -- well, let's
14 just answer the first question. What are the
15 negative potential problems to the placenta from
16 gestational diabetes, some of which you already
17 covered, I suspect? Go ahead.

18 A Just to the placenta or to the baby,
19 as well?

20 Q Well, I'm assuming that if it's
21 going to impact the placenta, it has certainly a
22 direct impact to the baby.

23 A Yes, but there's also a lot of
24 things that have an impact to the baby that don't
25 necessarily cause abnormalities or changes in the

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placenta.

Q From gestational diabetes?

A That's what we're talking about, isn't it?

Q Right. Give me some examples of those, that just impact the baby and not the placenta.

A Well, sometimes you get intrauterine fetal demise and there isn't anything specific in the placenta.

Sometimes you get anomalies of the baby associated with the reported increase in diabetes that you don't necessarily see anything different in the placenta of those diabetics.

Renal vein thrombosis without necessarily seeing thrombosis in the placenta.

You know, certainly hypoglycemia of the neonate which, of course, is not something you are going to ever see on a microscopic section, but that would be something else.

I'm sure there are others that I can't think of off the top of my head.

Q All right. When a placenta ages and it becomes mature, doesn't it somehow lose its

1 Baergen

2 ability, start to lose its ability to perfuse the
3 fetus?

4 A Well --

5 MR. MOSS: Objection.

6 Go ahead.

7 A First of all, I object to the use of
8 the term "ages," because a placenta, it does
9 mature but it doesn't age and it doesn't become
10 senescent, like some people believe; it doesn't
11 get old and worn out and, in fact, could probably
12 go on forever.

13 So, no, it does not, does not wear
14 out.

15 (Telephone interruption due to
16 static.)

17 Q Doctor, I was under the impression
18 that one of the dangers and why you have to
19 closely monitor -- this might be a maternal field
20 question -- but one of the dangers of gestational
21 diabetes is it has a negative impact on the
22 perfusion of the placenta, perfusion ability of
23 the placenta?

24 A Well, I don't know what you mean by
25 that.

1 Baergen

2 MR. MOSS: That's not a
3 question. Go ahead. Make a question
4 out of that, Mike.

5 Q Well, do you agree or disagree with
6 that proposition?

7 And you've indicated that you don't
8 understand what I'm saying.

9 A Well, I don't understand what you
10 mean, which is a slightly different thing.

11 I don't know if you are saying
12 that -- let me ask you this: Are you saying that
13 diabetes is associated with altered uteroplacental
14 perfusion?

15 Q Yes. Is it?

16 MR. MOSS: Objection.

17 Go ahead, Doctor.

18 A Well, first of all, I mean, I
19 already told you that there was abnormalities in
20 uteroplacental perfusion.

21 Q I'm speaking generally, Doctor, and
22 please don't argue with me.

23 Is it associated with impacting
24 perfusion? The answer is yes/no.

25 A No, the answer is not. I can

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1 Baergen

2 either -- you know, I can try to answer your
3 question the way I am able to answer the question.

4 MR. MOSS: Do that, Doctor.

5 A If you don't want to let me do that,
6 then I won't be able to answer the question.

7 Q Go ahead.

8 A As I told you, in this case there is
9 altered uteroplacental perfusion with decidual
10 vasculopathy, et cetera. And I told you that that
11 was not specifically associated with diabetes. So
12 those specific issues are not specifically
13 associated with diabetes. That doesn't mean that
14 they cannot be associated in particular cases.
15 But they are not something that you typically see
16 in association with diabetes.

17 But that's not all of the
18 abnormalities of perfusion you could probably
19 have; so, I don't know if that is what you are
20 referring to or not.

21 Q Well, you're telling us that
22 gestational diabetes can result in altered
23 placental perfusion but not always?

24 A No, that's not what I said.

25 I said in some cases you can have

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1 Baergen
2 gestational diabetes where you have altered
3 uteroplacental perfusion, but that doesn't mean
4 it's because of the diabetes; it just happens to
5 be in the same case.

6 Q Okay. I mean, is it recognized in
7 medicine, an association between uncontrolled
8 gestational diabetes and altered placental
9 perfusion?

10 MR. MOSS: Objection.

11 Go ahead, if you can answer,
12 Doctor.

13 A Well, again, if you are talking
14 specifically about, quote, maternal
15 underperfusion, unquote, or decreased
16 uteroplacental perfusion, the answer is no, that's
17 not specifically associated with diabetes.

18 Now, some obstetricians use
19 uteroplacental insufficiency or altered placental
20 perfusion and other terms, and I don't know what
21 they mean by that. I'm being very specific about
22 the definitions of what I'm saying; and in that
23 context, you know, I have answered that question.

24 (Telephone interruption due to
25 static.)

1 Baergen

2 Q Well, do you have a belief that
3 gestational diabetes can result indirectly in
4 altered placental perfusion?

5 MR. MOSS: Objection. I think
6 this has been asked and answered.

7 Doctor, if you have anything
8 else to add, go ahead.

9 A I don't. That's the same question
10 basically that you asked me before, and my answer
11 has been the same, and I've said it several times.
12 I don't have anything to add.

13 Q Now, just in this deposition,
14 Doctor, what will you be saying at trial is
15 totally contained within your October 25, 2000
16 report?

17 MR. MOSS: Objection. I don't
18 think that she's represented that at
19 all.

20 A Well, you know, I think what I'm
21 going to actually say, if I were to testify, if I
22 were asked to testify at trial and I did testify,
23 what I actually would say, the specific words that
24 I would say would really be somewhat dependent on
25 the questions I would be asked.

1 Baergen

2 However, I have gone over with you
3 all of the abnormalities I thought were present in
4 the placenta and explained to you what I thought
5 they meant. And, you know, we discussed the
6 timing of all those findings, and I don't have any
7 other abnormalities about -- in this placenta.
8 There is no other abnormalities that I saw that we
9 have not discussed.

10 Q You recognize, Doctor, that hypoxia
11 doesn't necessarily equate with asphyxia?

12

13 (Telephone interruption due to
14 static.)

15 A Hypoxia is basically decreased
16 oxygen in the bloodstream; where asphyxia, people
17 generally use that to mean lack of oxygen. So,
18 they are very similar terms but they are not
19 exactly equivalent. And, in fact, people often
20 use them slightly differently. So, there's some
21 variability in their use, as well, that they are
22 not the exact same terms.

23 (Telephone interruption due to
24 static.)

25 Q Are you familiar with any literature

1 Baergen

2 in placental pathology that speaks about women who
3 live in high altitudes, what their placentas look
4 like and whether or not nucleated red blood cells
5 are often found therein?

6 A Yes.

7 Q And do you agree with that
8 proposition that is set forth in those articles?

9 MR. MOSS: Objection. I think
10 that question is awfully broad.

11 A Yeah.

12 I mean, what I can tell you is that
13 women who live at high altitudes who presumably
14 have a low level hypoxia all the time, they do
15 show changes in their placenta of hypoxia, which
16 is several things; most commonly what has been
17 described as chorangiosis, which is a specific
18 definition for an increased number of blood
19 vessels in the chorionic villi. And I believe
20 there is some literature indicating that nucleated
21 red blood cells are increased, as well.

22 Q All right. Just to recap, Doctor,
23 as to when the decrease in placental perfusion and
24 the fetal hypoxia became its worst; you don't have
25 an opinion?

1 Baergen

2 MR. MOSS: Objection. It's
3 been asked and answered repeatedly.

4 Go ahead.

5 A Well, I think I've already discussed
6 with you the timing of the events to the extent
7 and the specificity that I could.

8 Q But my question, I just want the
9 recap, and I think you indicated this earlier, and
10 that is whether or not, at what point, whether it
11 was six hours or eight hours before birth when the
12 perfusion and hypoxia were at its worst. You
13 don't have an opinion as to when it was at its
14 worst?

15 MR. MOSS: Objection.

16 MS. PETRELLO: Objection.

17 MR. MOSS: Doctor, you can
18 answer.

19 A Well --

20 (Telephone interruption due to
21 static.)

22 A What you, I think, were referring to
23 is when I was discussing nucleated red blood cells
24 specifically. And I said that I could not say
25 when the maximum number of nucleated red blood

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1 Baergen

2 cells were present.

3 (Telephone interruption due to
4 static.)

5 THE WITNESS: Hello?

6 Q Did you hear my question, Doctor?

7 MS. PETRELLO: I didn't.

8 A I don't know which question -- you
9 asked a question and I answered it. I don't know
10 if you asked another one after that. I didn't
11 hear another question.

12 MR. MOSS: Your answer got cut
13 off, Doctor.

14 A Okay.

15 Basically what I thought you were
16 referring to -- what I think you are talking about
17 is when I was discussing the number of nucleated
18 red blood cells. And I said I couldn't say when
19 they were at a maximum. That's what I think you
20 are referring to.

21 Q Okay. Can you say when the
22 decreased placental perfusion was at its worst?

23 A Well, basically, the events causing
24 the decreased perfusion, as I said, were caused by
25 the abnormal vessels, which were there for a long

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1 Baergen

2 time. The specific changes in the placenta that I
3 could see that indicated ischemia, I thought were,
4 you know, 24 to 48 hours old. I cannot say
5 specifically when they were at a maximum.

6 Q Okay. That answers that question.

7 Would you agree that whatever was
8 compromising and causing the compensatory
9 mechanism of the NRBC, as well as causing a
10 decrease in placental perfusion, it was likely an
11 evolving process?

12 A No, I wouldn't agree with that.

13 Q Okay. What's the basis of that
14 opinion?

15 A Well, there isn't any basis for the
16 opinion that you just gave, that you asked me if
17 that was my opinion. It's not that I have a
18 basis -- I'm saying that I don't think there's a
19 basis for the opinion you just gave.

20 (Telephone interruption due to
21 static.)

22 Q Let me see if I can ask that
23 question a different way.

24 Do you feel that it is likely that
25 the longer this fetus remained in the environment,

1 Baergen

2 in utero, the greater --

3 (Telephone interruption due to
4 static.)

5 Q -- the greater the degree of hypoxia
6 and placental perfusion it would likely go on to
7 sustain?

8 MS. PETRELLO: Objection.

9 MR. MOSS: Objection.

10 (Telephone interruption due to
11 static.)

12 A I don't believe I could say that.

13 (Telephone interruption due to
14 static.)

15 MR. BECKER: That's all the
16 questions I have, Doctor.

17 THE WITNESS: Okay.

18 MR. MOSS: Do you have any?

19 MS. PETRELLO: No, I have no
20 questions.

21 Thank you, Doctor.

22 THE WITNESS: You're welcome.

23 MR. MOSS: Doctor, I think
24 under the circumstances, with the
25 difficulties in transmission, we would

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1 Baergen
2 really recommend that you review this
3 transcript. I know you typically
4 don't do that.

5 THE WITNESS: Well, you
6 know --

7 MR. MOSS: I'll leave it up to
8 you. But I have some concerns just
9 based upon the quality of the
10 connection that we had.

11 THE WITNESS: Well, the thing
12 is, the court reporter is here with me
13 and she's hearing exactly, I think,
14 what I'm hearing. So, I think it's
15 more of an issue on your end.

16 MR. MOSS: I'll leave it up to
17 you, Doctor. I'm just expressing my
18 concern.

19 (Telephone interruption due to
20 static.)

21 THE WITNESS: Then I would
22 like to waive signature.

23 MR. MOSS: Okay.

24 MR. BECKER: Okay. I'll take
25 a copy, but there is no rush.

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MR. MOSS: Same here.

MR. BECKER: Thank you.

MR. MOSS: Thank you, Doctor.

THE WITNESS: You're welcome.

' MS. PETRELLO: Same here.

(Whereupon, at 2:08 o'clock
p.m., the deposition was concluded.)

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C E R T I F I C A T E


STATE OF NEW YORK)
) ss.
COUNTY OF NEW YORK)

I, KAREN ANN CARNEY, a
Certified Shorthand (Stenotype)
Reporter and Notary Public of the
State of New York, do hereby certify
that the foregoing Deposition, of the
witness, REBECCA BAERGEN, M.D., taken
at the time and place aforesaid, is a
true and correct transcription of my
shorthand notes.

I further certify that I am neither counsel for nor related to any party to said action, nor in any wise interested in the result or outcome thereof.

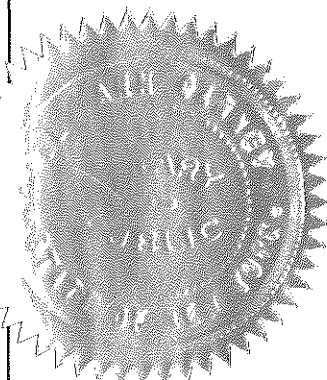
IN WITNESS WHEREOF, I have
hereunto set my hand this 11th day of
July, 2002.

uly, 2002.



KAREN ANN CARNEY, CSR, RPR, CMRS

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