

1
2 IN THE CIRCUIT COURT OF THE CITY OF ST. LOUIS
3 STATE OF MISSOURI
4
5 RANDALL PARKER AUBUCHON,)
6 a minor by and through his)
7 mother and next friend, Amanda)
8 Aubuchon, et al)
9 Plaintiffs,)
10 vs.) Cause No. 002-07578
11 WASHINGTON UNIVERSITY, et al)
12 Defendants)
13)
14 ORAL DEPOSITION OF ARMANDO G. CORREA, M.D.,
15 produced as a witness at the instance of the
16 defendant, and first duly sworn, was taken in the
17 above-styled and numbered cause on the 26th day of
18 August, 2002, at 11:05 a.m. before Bobbie Ames, CSR
19 205, in and for the State of Texas, reported by
20 machine shorthand, at the Marriott Medical Center,
21 Board Room II, Houston, Texas 77030, pursuant to the
22 Missouri Rules.
23
24
25

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CERTIFIED QUESTIONS

(None)

(Marked for identification as Correa Exhibit No. 1)

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Q. And did you live, as a child, though, in Mexico?

A. Yes, ma'am, I did.

Q. Okay. And was that your entire childhood or how did that work?

A. My family -- my parents' family lived in El Paso. I went back and forth between northern Mexico and El Paso. The majority of the time was spent in Mexico throughout my childhood.

Q. Is that where you attended school?

A. Yes, ma'am.

Q. Do you have dual citizenship?

A. Yes, I do.

Q. I am going to hand to you what has been marked as Exhibit No. 1.

Is that a copy of your current and up-to-date CV? (Handed).

A. Yes, ma'am, it is.

Q. And do you know if this CV, which I provided today, is any different than the CV that was provided to us through discovery?

A. I would assume it's different in the sense that several things have been added since the time I recall submitting my CV to Mr. Fahrenkrog.

Q. Okay. Can you tell me, off the top of your

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ARMANDO G. CORREA, M.D.,
having been first duly sworn, testified as follows:

EXAMINATION

Q. (BY MS. BARTOSIAK) Would you state your name, please.

A. Armando, A-r-m-a-n-d-o, middle initial "G," last name Correa, C-o-r-r-e-a.

Q. How old are you?

A. I am 40 years of age.

Q. Forty years old.

My name is Teresa Bartosiak, and I represent St. Louis Childrens Hospital in a lawsuit filed by the Parker Aubuchon family, and I am going to ask you some questions today.

If, at any time you don't understand a question I am asking, please feel free and stop me and I will try and rephrase my question.

Or, if at any time you need a break, just let me know, okay?

A. I certainly will.

Q. Where do you currently reside?

A. I live in Pearland, Texas. It's a suburb of Houston.

Q. And where were you born, sir?

A. I was born in El Paso, Texas.

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head -- and if you can't that's okay -- what has been added to this CV; do you know?

A. Unfortunately, I don't remember when that CV was submitted.

If you happen to have a copy, I will be glad to go over the differences.

Q. Is there anywhere on the CV where it's dated as to when it is updated?

A. No, ma'am, unfortunately, it's not.

Q. Okay. Here is the CV that was provided to us through discovery.

Can you tell me what additions there are to the CV marked as Exhibit No. 1.

A. Yes, ma'am.

This CV reflects what was up-to-date until around October of '99. So, there had been some several additions.

Q. Can you tell me what numbers have been added under what areas?

A. Certainly. Be glad to do that.

In "Other Experience," I have been asked to be the Co-chair of the Committee on Infectious Diseases and Immunizations of the Texas Pediatric Society.

I have also been asked to be a consultant on the Committee for Antibody Usage for Latin America. And

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9

1 this was through the WHO, World Health Organization.

2 Q. Okay.

3 A. And then, finally, I also became a member of

4 the International Activity Committee at Baylor College

5 of Medicine.

6 Also, since the time you received this CV, I

7 was awarded a prize for excellence in teaching as far as

8 the general pediatric attendant service at Ben Taub

9 Hospital and Baylor College of Medicine.

10 And I have been added to the listing of the

11 Best Doctors in America on two other occasions besides

12 the one in the present CV.

13 Q. What years were the two other occasions?

14 A. One is for the fourth listing in the 1998, and

15 the other is the year 2002 and 2003.

16 Q. Okay.

17 A. There are, in addition, four journal articles.

18 Q. Can you tell me what numbers those journal

19 articles are on the new CV?

20 A. Yes, ma'am.

21 They are 17 through 20.

22 Q. Do any of those journal articles have anything

23 to do with meningitis?

24 A. Not specifically, ma'am.

25 Q. What do you mean by "not specifically?"

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1 A. Well, they all have to do with infectious

2 diseases. So being meningitis, an infectious process,

3 they will have something to do.

4 If they address the area of meningitis?

5 Specifically, I don't believe any of those four do.

6 Q. Okay.

7 A. In Book Chapters, there is six additions and

8 these are numbered 6 through 11.

9 Q. Do any of those book chapters have anything to

10 do with the diagnosis and treatment of meningitis?

11 A. Yes, they do.

12 Q. Which book chapters?

13 A. The additional ones you are asking me

14 specifically?

15 Q. Right, yes. 6 through 11.

16 A. No. 7, No. 8, No. 10 and No. 11 all have

17 something to do with meningitis.

18 I am not sure if No. 9 does too, or at least

19 there may be some reference to it.

20 Q. Okay. And of those 7, 8, 10 and 11 that have

21 something to do with meningitis, are these, again, like

22 the articles where it's merely meningitis referenced

23 because it is part of an infectious disease you are

24 discussing, or is it more specific than that?

25 A. It's somewhat more specific than that.

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11

1 Q. Okay. Since I don't have a copy of the CV,

2 what is No. 7? What is that chapter entitled?

3 A. Well, this is a chapter that is actually

4 written in Spanish for a textbook in Spanish.

5 Q. Can you translate it for me.

6 A. Sure.

7 It's Coadyuante Treatment of Neonatal Sepsis.

8 Q. Okay. And are you the author of that chapter?

9 A. Yes, ma'am.

10 Q. And what book is that from?

11 A. It's a neonatal infectious disease textbook

12 that is published in Mexico.

13 Q. Is there anything in that book chapter specific

14 to infected Cephalhematomas in the development of

15 meningitis?

16 A. No, ma'am.

17 Q. Okay. What is book chapter No. 8?

18 A. It's a chapter entitled Acinetobacter

19 Infections.

20 Let me spell that word for you. It's

21 a-c-i-n-e-t-o-b-a-c-t-e-r.

22 Q. All right. And what does that mean, that word

23 mean?

24 A. It's the name of a bacteria.

25 Q. What type of bacteria?

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1 A. It is a gram negative bacteria.

2 Q. And what reference is there in that book

3 chapter to the treatment of meningitis?

4 A. In that chapter, I discuss the presentation of

5 meningitis due to this bacteria in children and what the

6 treatment for it is.

7 Q. You don't believe that Randall Parker had that

8 specific bacteria?

9 A. That is correct.

10 Q. Okay. Does it have any discussion about

11 infected cephalhematomas in that chapter No. 8?

12 A. Not that I recall.

13 Q. Okay. How about No. 9, you said it was

14 questionable.

15 What is the name of that chapter?

16 A. The name is Coagulse-Positive Staphylococcal

17 Infections.

18 Q. And when you say it's possible it has some

19 reference to meningitis, can you give me, in more

20 detail, what the possibility is.

21 A. Staphylococcal infection is one of the most

22 common infections in children.

23 Those infections can be anywhere from the skin

24 all the way to the meninges or other organs.

25 I believe that, in this chapter, we discuss the

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1 possibility of brain abscess and meningitis due to this
2 bacteria in a small portion of the chapter.

3 Q. Is there any discussion in that chapter on
4 infected Cephalhematomas?

5 A. Not that I recall.

6 Q. Do you believe that Randall Parker had this
7 type of staph infection?

8 A. No, ma'am.

9 Q. Okay. How about No. 10?

10 A. No. 10 is entitled Clostridil,
11 c-l-o-s-t-r-i-d-i-l, Intoxication and Infection.

12 Q. Can you tell me what that is.

13 A. Yes.

14 This is a bacteria that causes botulism and
15 tetanus. It's another type of bacteria.

16 Q. Is there any discussion on infective
17 cephalhematomas in that chapter?

18 A. I believe there is a reference to infective
19 cephalhematomas in that chapter.

20 Q. What was that reference to?

21 A. I mentioned that there has been a description
22 of this bacteria causing infection in a cephalhematoma.

23 Q. Did you actually cite a source for that?

24 A. I may have.

25 Q. So, if I get that chapter I should be able to

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1 A. This chapter discusses the treatment of
2 meningitis due to fungi, due to yeast.

3 Q. And I assume that you don't believe that
4 Randall Parker had meningitis due to this type of
5 fungus?

6 A. That is correct.

7 Q. Is there any discussion in that chapter on
8 treatment of infected cephalhematomas?

9 A. No, ma'am.

10 Q. Is there anything else added to the CV?

11 A. There is two additions to the abstracts, No. 6
12 and No. 7, and neither one of them are in reference to
13 meningitis.

14 Q. Okay. And are there any other additions to the
15 CV?

16 A. And finally, on the Invited Lectures, there is
17 35 additional lectures, and they are 45 through 79.

18 Q. Were any of those lectures on meningitis
19 treatment and diagnosis?

20 A. Yes, ma'am.

21 Q. Okay. Which numbers?

22 A. It would be No. 46.

23 Q. Well, while we are there, why don't --

24 A. No. 53.

25 Q. Okay. Never mind.

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1 find a reference that will show me that the
2 cephalhematoma in some child was infected due to this
3 type of intoxication?

4 A. That may be the case.

5 Like I said, I don't remember it exactly if it
6 is included as a reference but that's my understanding.

7 Q. Okay. But, if it wasn't included as a
8 reference, is that something based on your personal
9 experience?

10 A. No.

11 It's just, you know, based on my review of the
12 literature.

13 Q. Okay. You didn't treat a child who had an
14 infected cephalhematoma due to that type of
15 intoxication?

16 A. That is correct.

17 Q. Okay. And you don't believe that Randall
18 Parker had that type of intoxication, I assume, is that
19 right?

20 A. That is correct.

21 Q. And what about No. 11?

22 A. Well, this is a chapter entitled Antifungal
23 Agents.

24 Q. And what is the reference to meningitis in that
25 chapter?

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1 A. Those would be the two.

2 Q. What was 46 entitled?

3 A. Forty-six was entitled Maternal Infections in
4 Pregnancy.

5 Q. And can you give me a general description of
6 what you lectured on with respect to meningitis.

7 A. Yes.

8 This was a lecture that I gave on infections in
9 the newborn. And basically, I talked about the
10 mechanism, the diagnosis and the treatment of meningitis
11 in the newborn.

12 Q. Where did you give this lecture?

13 A. It was in San Juan, Puerto Rico.

14 Q. To who?

15 A. It was to the Association of Trial Lawyers of
16 America MidWinter Conference.

17 Q. How did you get involved with the Association
18 of Trial Lawyers of America?

19 A. I was asked to go give this conference.

20 Q. Asked by who?

21 A. I believe his name is Dov Apfel.

22 Q. Can you spell that last name for me.

23 A. A-p-f-e-l.

24 Q. Do you know how Doug got your name?

25 MR. FAHRENKROG: It's Dov, D-o-v.

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1 MS. BARTOSIAK: Oh! I am sorry. I
2 apologize.
3 Q. (BY MS. BARTOSIAK) Do you know how -- and was
4 that a man or a woman?
5 A. It's a man.
6 Q. Do you know how he got your name?
7 A. No, I don't know.
8 Q. Do you know how the Trial Lawyers of America
9 makes that up, whether they are plaintiffs or defense
10 lawyers?
11 A. To be honest with you, at that time, I did not.
12 I was just ...
13 Q. Do you know now?
14 A. Yes, ma'am, I do.
15 Q. Well, what is it?
16 A. Well, my understanding is that the majority of
17 them are plaintiffs lawyers.
18 Q. And what were you told when you were asked to
19 give this lecture as far as what your purpose would be?
20 A. My understanding was that this was a group of
21 lawyers who wanted to know more about perinatal injuries
22 and their mechanism.
23 And they wanted the medical standpoint
24 regarding neonatal infections and infections in a
25 mother.

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1 Q. Were you told to provide them with information
2 that would assist them in analyzing medical charts when
3 they were considering taking medical malpractice cases?
4 A. I was not specifically told that.
5 I was told they wanted the medical perspective
6 on infections in the newborn.
7 Q. Did you offer any advice, during your lecture
8 to these attorneys, as far as what to look for when they
9 are reviewing a case involving these issues?
10 A. No, ma'am.
11 Because I do not have a law background, I
12 really focus exclusively on the medical standpoint.
13 Q. Well, when you gave this lecture, I assume you
14 give lectures to groups of physicians commonly, is that
15 right?
16 A. Yes, ma'am.
17 Q. Did you give this lecture any differently to
18 this group of attorneys than you would to a group of
19 physicians?
20 A. Yes, I did.
21 Because I knew that their background may not be
22 very strong in medical science, and I made sure I
23 included a lot of basic information in giving that
24 lecture, simple things as defining what a cytokine is or
25 defining what the inflammatory response is.

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1 You approach it differently when you are in a
2 group of your peers as in a group of lawyers or any
3 other profession.
4 MR. FAHRENKROG: He tried to limit his
5 words to two syllables for the lawyers' sake.
6 Q. (BY MS. BARTOSIAK) Did you have any handouts
7 that you provided or an outline?
8 A. Yes, ma'am.
9 Q. And do you still have copies of that?
10 A. I probably do.
11 Q. So, if I ask Mr. Fahrenkrog to provide me with
12 copies, then, it wouldn't be that difficult for you to
13 locate?
14 A. Yes, ma'am, that's correct.
15 Q. Were you compensated for that lecture?
16 A. I believe that I only received reimbursement
17 for part of my travel expense.
18 Q. Just part of your travel expenses?
19 They expected you to come all the way to Puerto
20 Rico and they only paid part of them?
21 A. They are lawyers.
22 Q. You didn't receive any type of compensation for
23 the time it took you to put this lecture together, and
24 then, your actual time in giving the lecture?
25 A. I take that back.

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1 I remember there may have been a stipend given
2 in addition to part of the travel expenses.
3 But, I used that to offset the rest of the
4 traffic expenses.
5 Q. Do you have any idea how much the stipend was
6 for?
7 A. If I remember correctly, \$500.00.
8 Q. All right. Had you ever given any prior
9 lectures to members of the Association of Trial Lawyers
10 of America?
11 A. No, ma'am.
12 Q. And would you do it again since they were so
13 cheap?
14 A. I will make sure that we make prior
15 arrangements before doing so.
16 Q. Okay. Well, tell me about No. 53.
17 A. Yes, ma'am.
18 This was a lecture on Neonatal Sepsis and
19 Adjunctive Therapy as well as Nosocomial Infections in
20 the Newborn.
21 And this was given in an International
22 Neonatology Conference in Puebla, Mexico.
23 Q. And can you tell me, in general, what you
24 lectured on with respect to the diagnosis and treatment
25 of meningitis.

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1 A. Basically what the most common organisms were,
2 what the most common presentation was, and what the way
3 of diagnosing and treating is.

4 Not only treating with antibiotics, but,
5 adjunctive therapies, and some of the options that have
6 been offered for the treatment of these infections.

7 Q. Is e-coli bacteria one of the most common
8 organisms?

9 A. In fact, in Latin America, it is the most
10 common organism.

11 Q. All right.

12 A. As a cause of neonatal meningitis.

13 Q. Okay. And as far as presentation as you sit
14 here today, can you tell me what you told the members
15 who were attending your lecture about the presentation?

16 A. Well, I don't recall exactly, but it basically
17 had to do with what the clinical symptoms of meningitis
18 are.

19 And that includes irritability, alterations in
20 temperature, poor feeding, neck stiffness, vomiting.
21 Apnea. Alterations in blood pressure, tachycardia,
22 lethargy. Those would be the most common ones.

23 Q. Did you give any discussion, in your lecture,
24 regarding treatment of infected cephalhematomas?

25 A. No, ma'am.

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1 Q. Do you have any handouts or an outline from
2 that presentation?

3 A. No, ma'am, I do not.

4 Q. Going back to the Association of Trial Lawyers
5 of America lecture that you gave, after that lecture,
6 did you get any work out of it as a consulting expert?

7 And did anybody that attended the lecture call
8 you?

9 A. I don't recall specifically somebody saying
10 "Well, because I saw you, I am calling you."

11 Q. Okay.

12 A. It is quite possible that that may have been
13 the case since many of these conferences, they publish
14 the name or address of the presenters.

15 Q. When was that lecture in Puerto Rico?

16 A. That was January 23rd of 2000.

17 Q. Well, do you think that your business has gone
18 up in doing expert consulting work since January 23rd of
19 2000?

20 A. I think, overall, it has been very similar or
21 slightly higher than it was before then.

22 Q. When you gave the lecture to the trial lawyers,
23 did you discuss infected cephalhematomas at all?

24 A. No, ma'am.

25 Q. I guess since we are already on this topic, can

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1 you go through and tell me if any of your other articles
2 that we haven't discussed, in your opinion, involve
3 treatment and diagnosis of meningitis.

4 A. Yes, ma'am.

5 Q. Which numbers?

6 A. I will give you back your copy. (Handed).

7 Q. Okay. Thank you.

8 A. No. 1 is entitled Invasive Aspergillosis,
9 a-s-p-e-r-g-i-l-l-o-s-i-s.

10 Q. Okay. Well, let's just take these one at a time
11 while we are on it.

12 Can you tell me, in general, what your
13 discussion is with respect to the treatment and
14 diagnosis of meningitis in No 1.

15 A. This article reports at least one patient who
16 had meningitis due to this organism.

17 And we discussed the treatment.

18 Q. And I assume that you do not believe that
19 Randall Parker had this organism?

20 A. That is correct.

21 Q. Did you discuss anything with respect to
22 treatment of infected cephalhematomas?

23 A. No, ma'am.

24 Q. Okay. Can you tell me the next one.

25 A. No. 7 may have a reference to neonatal

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1 meningitis due to syphilis.

2 Q. And in that article, is there any discussion of
3 treatment of infected cephalhematomas?

4 A. No, ma'am.

5 Q. And am I correct that you do not believe that
6 Randall Parker had any type of congenital syphilis?

7 A. That is correct.

8 Q. Okay.

9 A. No. 10 discusses the Management of Meningitis
10 Due to Tuberculosis.

11 Q. Okay. And in that article, did you discuss
12 anything with respect to infected cephalhematomas?

13 A. No, ma'am.

14 Q. And do you believe that Randall Parker had a
15 macrobacterial infection?

16 A. No, ma'am.

17 Q. Okay. The next number.

18 A. I guess the next number is No. 13.

19 It is a similar article that discusses
20 meningitis due to tuberculosis, and there is no
21 reference to infected cephalhematomas.

22 Q. And am I correct that you do not believe that
23 Randall Parker had tuberculosis?

24 A. Yes, ma'am.

25 Q. Okay.

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25

1 A. And the book chapters.

2 Q. Yes. The same question.

3 A. No. 1 is the previous version of the same

4 article we had already discussed, the Acinetobacter

5 chapter.

6 Q. Okay.

7 A. Chapter No. 2 is also similar to the one we had

8 discussed previously.

9 Q. Okay.

10 A. The earlier version of No. 7.

11 Q. Okay.

12 A. Article No. 4 is on Tuberculosis.

13 And again, it's a similar discussion related to

14 tuberculosis, meningitis. And it does not include any

15 reference to infected cephalhematomas.

16 Q. Okay.

17 A. Then, finally, on the abstract portion there is

18 no specific one that will involve the issue of

19 meningitis.

20 Q. Okay. And what about any other invited

21 Lectures?

22 A. Yes, ma'am. Lectures No. 1 and No. 3 both have

23 to do with neonatal sepsis in meningitis.

24 Q. In No. 1 and No. 3, did you have any discussion

25 regarding infected cephalhematomas?

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1 A. No, ma'am.

2 Q. Would you still have any of the handouts, or

3 were there any handouts or an outline from No. 1 and No.

4 3?

5 A. No, ma'am.

6 Q. Okay. Then, No. 19 there is a couple of

7 presentations.

8 One was on Immunoglobulin Treatment of Newborn

9 Sepsis as well as Use of Immunomodulators in Neonatal

10 Sepsis.

11 Q. And in that lecture, did you have any

12 discussion about treatment of infected cephalhematomas

13 associated with meningitis?

14 A. No, ma'am.

15 Q. Did you have any outline or notes or handouts

16 from that lecture?

17 A. No, ma'am.

18 Q. Okay.

19 A. No. 31, which talks about -- Well, there is two

20 talks.

21 Update in the Management of Neonatal Sepsis.

22 And there is another one called Meningitis and

23 Verticillitis.

24 And this was given in the Philippine Pediatric

25 Infectious Disease Society.

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1 Q. During that lecture, did you discuss treatment

2 or diagnosis of infected cephalhematomas?

3 A. Not that I remember.

4 Q. Okay. Were there any -- Was there any

5 outlines, handouts, notes or anything from that lecture

6 that you would still have?

7 A. No, ma'am.

8 Q. Okay.

9 A. And I believe the other ones we have already

10 discussed.

11 Q. Okay. How long have you been doing expert

12 consulting work?

13 A. Probably six or seven years.

14 Q. And in those six or seven years, on average,

15 how many cases do you review a year?

16 A. It really has changed over the last three years

17 or so.

18 Initially, it was only one or two cases per

19 year. I would say now it's more in the neighborhood of

20 fifteen to twenty.

21 Q. Since you gave that lecture in Puerto Rico?

22 A. No.

23 Before.

24 Q. Okay. And the cases that you review, are they

25 all on behalf of the plaintiff?

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1 A. No, ma'am.

2 Q. Can you give me a breakdown of percentage,

3 plaintiff versus defendant.

4 A. Sure.

5 Overall, it is probably close to fifty-fifty.

6 Q. When did that change that it wasn't the

7 majority on behalf of the plaintiff, if at all?

8 A. I don't know. I don't think it has ever been

9 the majority towards the plaintiff.

10 Obviously, when I first reviewed a couple of

11 these cases, probably the first one or two may have been

12 from plaintiffs.

13 But, I think all along it has been close to

14 that proportion.

15 Q. So, you believe that all along, in the last six

16 to seven years while you have been doing expert work,

17 you would estimate, on average, it would be 50% on

18 behalf of the plaintiff and 50% on behalf of the

19 defendant?

20 A. Yes, ma'am.

21 Q. What states have you reviewed cases like for

22 litigation or even before when they are considering

23 filing a cases from what states?

24 A. Obviously, because of geographic reasons, the

25 majority have been here in Texas.

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1 I have reviewed cases in Missouri, Illinois,
2 Georgia, Florida. I believe I have reviewed a case in
3 Louisiana. Utah.

4 And I have reviewed cases for a lawyer in
5 Minnesota, but, I believe the cases took place in Puerto
6 Rico. And Virginia.

7 I believe that's my fair recollection at this
8 time.

9 Q. Okay. And on average, or I guess maybe in the
10 last three years might be a better question, how many
11 depositions would you say that you give in a year?

12 A. Well, I honestly don't know how many I have
13 given.

14 Probably the last three years, fourteen or
15 fifteen.

16 Q. And would that be per year?

17 A. No.

18 Q. Okay.

19 A. Total.

20 Q. Total, okay.

21 How about testified at trial in the past three
22 years?

23 A. Well, if my memory serves me right, two times.

24 Q. Okay. And when were those trials, do you
25 remember?

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1 A. No, ma'am.

2 I can tell you the city, but I certainly don't
3 remember the dates.

4 Q. Okay. What cities were they?

5 A. One was in Chicago, Illinois. And I hope I
6 included Illinois in the previous discussion.

7 Q. You did.

8 A. And the other one was in Waco, Texas.

9 Q. Did either of those cases involve the diagnosis
10 or treatment of meningitis?

11 A. Yes, ma'am. The one in Chicago did.

12 Q. Do you remember the name of that case?

13 A. No, ma'am, I do not.

14 Q. Could it have been -- I am going to "butcher"
15 this -- Nicomic versus the Northwest Community
16 Hospital?

17 A. No, ma'am.

18 That is a case that I have not testified in
19 court. I have given a deposition in that case.

20 Q. Okay. How about could it have been Destiny
21 Phillips versus Edgewater Hospital?

22 A. That's the one in Waco.

23 Q. That case is in Waco?

24 A. Yes, ma'am.

25 Q. All right.

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1 A. That's where the trial was.

2 Q. Do you remember who hired you in the case in
3 Chicago?

4 A. It was the law firm of Corboy & Demitrio.

5 Q. Do you know how to spell that?

6 A. C-o-r-b-o-y. I believe the other name is
7 D-e-m-i-t-r-i-o.

8 And it may have been more than three years
9 since that trial took place.

10 Q. Okay. And do you remember who the defendants
11 were, like the name of a hospital or any of the
12 physicians?

13 A. Yes.

14 I remember specifically it was Children's
15 Hospital in Chicago.

16 Q. You don't remember the plaintiff's name,
17 though, in that case?

18 A. No, ma'am.

19 I believe the last name was Mendoza.

20 Q. Do you remember the names of any of the
21 attorneys for the defendants?

22 A. No, ma'am.

23 Q. Do you have an approximation of what year you
24 testified in that trial?

25 A. Yes.

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1 It must have been around '98 or '99.

2 Q. Do you know what happened as far as the trial
3 goes?

4 A. Yes.

5 That case was settled for some of the
6 defendants, actually settled with the Children's
7 Hospital.

8 And for the other defendants, it was found in
9 their favor.

10 Q. A defense verdict?

11 A. Yes, ma'am.

12 Q. Okay.

13 A. And just to clarify, at the time of trial,
14 Children's was no longer a part of the suit.

15 Q. Okay. And do you remember the names of any of
16 the other defendants who were still in the case at the
17 time of trial?

18 A. No, ma'am.

19 Q. Okay. And you said that case involved
20 meningitis.

21 Can you give me a little bit more information.

22 A. Yes, ma'am.

23 This was a young child who developed meningitis
24 due to tuberculosis, and developed a significant injury
25 as a result of that infection.

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1 Q. How young a child?

2 A. At the time of his diagnosis, he was a year of

3 age.

4 And I believe he is now about fourteen.

5 Q. Of the fourteen to fifteen depositions that you

6 believe you have given in the past three years, are

7 those 50% for the defense and 50% for the plaintiff or

8 do those tend to go one way or the other?

9 A. No, ma'am.

10 Those have been, for the majority, generally

11 for the plaintiffs.

12 Q. Can you give me any kind of percentage for the

13 breakdown or estimate?

14 A. I can give you a rough estimate. I honestly

15 haven't -- I don't have a list. And I am just pulling

16 it out of my memory.

17 Q. Sure.

18 A. But, maybe 75/25.

19 Q. 75% for the plaintiff?

20 A. Yes, ma'am.

21 Q. Do you keep a list of all of the cases where

22 you are retained as an expert witness?

23 A. No, ma'am, I do not.

24 Q. Have you ever kept such a list?

25 A. No, ma'am.

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1 Q. Have you ever kept a list of the cases in which

2 you have given depositions?

3 A. No, ma'am, I have not.

4 I was asked, I believe in a Federal case, to

5 provide a list of the depositions for the last, you

6 know, one or two years. I don't remember the time

7 period.

8 And that's the only time I have had a list.

9 Q. Do you still have the list that you provided in

10 the one Federal case?

11 A. No, ma'am.

12 Q. Do you remember the name of that case?

13 A. No, ma'am.

14 Q. And do you remember, even, where it was

15 pending?

16 A. It was here in the state of Texas. And I

17 believe it was in the Wichita Falls area.

18 Q. Do you advertise your services as an expert

19 consultant in any fashion at all?

20 A. No, ma'am.

21 Q. Do you know how all of these attorneys get your

22 name?

23 Do they ever tell you is it just by

24 word-of-mouth, or, do they ever tell you where they get

25 your name?

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1 A. That is my impression, that it has been mostly

2 word-of-mouth.

3 And I have heard from a couple of the attorneys

4 that they have gone by their research of the literature,

5 they find my name associated with a specific condition.

6 Q. Okay. And the cases that you have reviewed in

7 Missouri, have those been in the St. Louis area?

8 A. To be honest, I am not familiar with the

9 geographic locations of the cities, but I believe they

10 have been close to St. Louis.

11 Q. Okay. How many cases do you think you have

12 reviewed involving the State of Missouri?

13 A. That I have reviewed at different stages?

14 Q. Right.

15 A. I believe four.

16 Q. Have you, other than this case, ever been

17 retained to review a case by the Waitther/Glenn Law Firm?

18 A. Yes, I have.

19 Q. How many other times?

20 A. One time.

21 Q. Is that case still going on or is it resolved,

22 do you know?

23 A. My understanding is that it is resolved.

24 Q. And did you have to give a deposition in that

25 case?

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1 A. Yes, I did.

2 Q. Do you remember the name of that case?

3 A. No, ma'am, I do not.

4 Q. Do you remember any of the defendants' names in

5 that case?

6 A. No, ma'am.

7 Q. You don't remember the hospital, the doctors,

8 anything?

9 A. No, ma'am, not specifically. I am sorry.

10 Q. And the plaintiff, do you remember his or her

11 name?

12 A. No, ma'am.

13 Q. How long ago was it?

14 A. It was probably about three years ago.

15 Q. I assume you didn't have to testify at trial,

16 is that right?

17 A. That's correct.

18 Q. Were you working directly with Mr. Fahrenkrog

19 or someone else with his firm?

20 A. No.

21 I was working with one of his partners.

22 Q. Who was that?

23 A. Mr. Larry Glenn.

24 Q. Do you remember what the case involved as far

25 as the allegations?

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1 A. If I remember correctly, it was a case of
 2 newborn infection with -- It may have been meningitis.
 3 And the allegation was that of delay of
 4 diagnosis and treatment.
 5 Q. And I know I have asked you this but, you have
 6 no idea what hospital it involved at all?
 7 A. I am sorry, but I do not.
 8 Q. Okay. All right. The three other cases that
 9 you have had in Missouri, are you counting this case as
 10 one of those?
 11 A. Yes, ma'am.
 12 Q. And what about the two other cases, are they
 13 ongoing?
 14 A. In those two cases that I reviewed, I found no
 15 evidence, in my opinion, of deviation in the standard of
 16 care or abnormalities.
 17 Q. And do you know what law firms retained you on
 18 the two other cases?
 19 A. I guess I wouldn't use the word "retained"
 20 because...
 21 Q. Or asked you to review them?
 22 A. Or asked to review the case.
 23 Yes, it was Mr. Fahrenkrog.
 24 Q. Okay. I guess I am confused. I apologize.
 25 Have all four of your cases in Missouri been
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1 through Mr. Fahrenkrog's firm?
 2 A. That is correct.
 3 Q. Okay. So, we have the two cases where you
 4 didn't find any evidence of any negligence, one case
 5 with Larry Glenn, and then, this case, is that right?
 6 A. That is correct.
 7 And those two cases were also referred to me by
 8 Mr. Glenn.
 9 Q. Okay. Do you know how Mr. Glenn or Mr.
 0 Fahrenkrog got your name?
 1 A. No, I do not.
 2 Q. Do you know if Mr. Glenn or Mr. Fahrenkrog were
 3 in Puerto Rico at the seminar?
 4 MR. FAHRENKROG: I knew that was coming.
 5 THE WITNESS: I do not know if Mr.
 6 Fahrenkrog was in Puerto Rico.
 7 Q. (BY MS. BARTOSIAK) What about Mr. Glenn?
 8 A. I remember him being in Puerto Rico, because he
 9 asked me a question about my presentation.
 0 MR. FAHRENKROG: But, you had the
 1 relationship with Mr. Glenn before Puerto Rico, as I
 2 understand it.
 3 THE WITNESS: That is correct.
 4 Q. (BY MS. BARTOSIAK) How long does it go back,
 5 your relationship with Mr. Glenn?
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1 A. I would say probably three years.
 2 Q. Did you have a case where you had reviewed for
 3 Mr. Glenn before the seminar in Puerto Rico?
 4 A. It is possible that that case that I had
 5 mentioned, where I testified, I had reviewed it before I
 6 testified in Puerto Rico.
 7 Q. Well, when Mr. Fahrenkrog asked you the
 8 question of you had the relationship with Mr. Glenn
 9 before Puerto Rico, and you answered yes, you had a
 10 prior relationship, what did you base that on?
 11 A. Based on remembering having talked to him.
 12 In fact, I had talked to him on the phone, and
 13 that's when in the meeting in Puerto Rico, I was able to
 14 put a face to a voice.
 15 Q. Okay. So, you had talked to Mr. Glenn before
 16 the seminar in Puerto Rico about reviewing a case?
 17 A. That is correct.
 18 Q. Okay. Are you and Mr. Glenn what you would
 19 consider friends?
 20 A. No, ma'am.
 21 All of our association has been business
 22 related.
 23 Q. Okay. Did you guys go out and party together
 24 in Puerto Rico?
 25 A. (Shook head).
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1 Q. I am just kidding.
 2 MR. FAHRENKROG: She's insatiable.
 3 Q. (BY MS. BARTOSIAK) And you don't know if Mr.
 4 Fahrenkrog was in Puerto Rico or not?
 5 A. I do not know.
 6 Q. Okay. Have you reviewed any other cases for
 7 anyone in Missouri?
 8 A. No, ma'am.
 9 Q. Okay. Your Illinois cases, are those also with
 10 the Walther Glenn Law Firm?
 11 A. No, ma'am.
 12 Q. Are any of your Illinois cases with Walther
 13 Glenn?
 14 A. No, ma'am.
 15 Q. Okay. Do you know enough about the Illinois
 16 cases to tell me if they involve the north part of the
 17 state, like Chicago or if any involve southern Illinois?
 18 A. If I understand correctly, they involved the
 19 north part, the Chicago area.
 20 Q. All right.
 21 A. Or close by.
 22 Q. Okay. In the cases where you have actually
 23 given deposition testimony, other than the one in
 24 Chicago, have any of the other cases involved the
 25 diagnosis or treatment of meningitis?
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1 A. (No answer).

2 Q. Just the ones where you have had to give a

3 deposition.

4 A. In Chicago?

5 Q. No, no.

6 A. In general.

7 Q. I am talking about any of them. Any of them,

8 if you remember.

9 A. It is probably, yes. The answer is probably,

10 yes.

11 Q. Okay. As you sit here today, can you tell me

12 do you have a memory of any of the cases where you have

13 given a deposition where it involved the treatment or

14 diagnosis of meningitis other than in the Chicago case?

15 A. Yes. There is another case in Chicago.

16 It is -- I have given a deposition in that

17 case, and I believe the name of the lawyer, the

18 plaintiff lawyer, is Phillip Mahar, M-a-h-a-r.

19 MR. FAHRENKROG: "E-r."

20 THE WITNESS: "E-r."

21 Q. (BY MS. BARTOSIAK) And do you remember the

22 name of that case?

23 A. No, ma'am.

24 Q. Or, do you remember the name of the plaintiff?

25 A. Tomzk.

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1 Q. How do you spell that?

2 A. T-o-m-z-k.

3 Q. And do you remember the names of any of the

4 defendants, like the hospitals or the physicians?

5 A. No, ma'am.

6 Q. Is that case still pending?

7 A. I have not heard from their law firm in a long

8 time, but my understanding is that it is still.

9 Q. How long ago did you give the deposition?

10 A. Well, three years ago.

11 Q. All right. And what were the allegations in

12 that case?

13 A. I do not recall the details.

14 Q. Okay. You just know that it involved

15 meningitis?

16 A. Yes, ma'am.

17 Q. Okay. Did it involve anything to do with an

18 infected cephalhematomas?

19 A. No, ma'am.

20 Q. Have you ever had a case that you have

21 reviewed, whether you have given a deposition or not,

22 involving an infected cephalhematoma other than this

23 case?

24 A. No, ma'am.

25 Q. Where did you go to medical school?

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1 A. I went to school at Monterrey Institute of

2 Technology.

3 Q. And where is that located?

4 A. It's located in northern Mexico, in the City of

5 Monterrey, Mexico.

6 Q. And how long a program is that?

7 A. That is a seven-year program.

8 Q. All right. And you graduated in 1987, is that

9 right?

10 A. Yes, ma'am.

11 Q. All right. And then, were you licensed in

12 Mexico in 1987?

13 A. Yes, ma'am.

14 It was part of a -- It is somewhat of a

15 different process, but just from finishing medical

16 school, you get a professional license.

17 Q. Okay. And then, did you come to the United

18 States for an internship?

19 A. Yes, ma'am.

20 Q. And did you have to become licensed in the

21 United States?

22 A. Yes, ma'am.

23 I had to pass tests in order to be licensed in

24 the United States and be able to go into residency.

25 Q. Okay. And where did you do your internship?

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1 A. Both my internship and residency was at the

2 Children's Hospital of Austin at Breckenridge in Austin,

3 Texas.

4 Q. And you completed your residency in 1991, is

5 that right?

6 A. Yes, ma'am.

7 Q. Okay. And then, you went on to do a

8 Fellowship?

9 A. That is correct.

10 Q. And was the fellowship in pediatric and

11 infectious diseases?

12 A. Yes.

13 That was here at the Baylor College of

14 Medicine.

15 Q. Okay. And you completed that in 1993?

16 A. Yes, ma'am.

17 Q. And then, what did you do after you completed

18 your fellowship?

19 A. Since that time, I became a member of the

20 faculty and am currently an Assistant Professor in the

21 Department of Pediatrics here at the Baylor College of

22 Medicine.

23 For one more week.

24 Q. And what does that mean?

25 A. I am in the process of relocating up the river

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1 from you guys to Minnesota.
 2 Q. That's way "up the river."
 3 A. (Nodded head).
 4 Q. Okay. And where are you going to be going in
 5 Minnesota?
 6 A. I will be part of the faculty at the Mayo
 7 Clinic in Rochester, Minnesota.
 8 Q. And what will your position be at the Mayo
 9 Clinic?
 10 A. It will be Senior Associate Consultant for the
 11 Mayo Clinic and Associate Professor of Pediatrics for
 12 the Medical School.
 13 Q. As Senior Associate Consultant, what does that
 14 mean?
 15 A. It basically means that I am coming in to be
 16 part of their senior faculty, and provide patient care
 17 and expertise in pediatric infectious diseases.
 18 Q. And you are going to be going there in one
 19 week?
 20 A. I will complete my job here in one week, and I
 21 will be starting at the Mayo Clinic in October of this
 22 year.
 23 Q. And as an Associate Professor of Pediatrics for
 24 the Medical School, will you be responsible for teaching
 25 residents and interns?
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1 A. Yes, ma'am.
 2 Q. Okay. And why are you relocating to the Mayo
 3 Clinic?
 4 A. There is a number of reasons, but it's mostly a
 5 great opportunity to go work at one of the finest
 6 institutions in the country.
 7 I was recruited by them because of my expertise
 8 in pediatric infectious diseases, and my advantage of
 9 connections in Latin America and other Spanish speaking
 10 countries to go and foster a relationships with them.
 11 And then, finally, there is some family
 12 reasons. It is a beautiful and small community that
 13 offers many advantages.
 14 Q. Okay. Who recruited you?
 15 A. Mayo Clinic.
 16 Q. Who, at Mayo Clinic, in the Infectious Diseases
 17 Department?
 18 A. Her name is Nancy Henry.
 19 Q. Is she a physician?
 20 A. Yes, ma'am.
 21 Q. Does she specialize in pediatrics and
 22 infectious diseases?
 23 A. Yes, ma'am.
 24 Q. Was anyone else part of the recruiting team
 25 from Mayo?
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1 A. Yes, ma'am.
 2 Q. In infectious disease?
 3 A. Yes, ma'am.
 4 In fact, the head of the recruiting team was a
 5 Dr. Phillip Fisher.
 6 Q. And is he a pediatric infectious disease
 7 physician?
 8 A. I believe he -- He doesn't have an infectious
 9 disease; he has a travel medicine specialty.
 10 Q. Were there any other physicians who specialize
 11 in pediatric infectious diseases that were part of
 12 recruiting you?
 13 A. Yes, ma'am.
 14 There were two more physicians. Charles Huskin,
 15 and Tom -- and I apologize. I am blanking on his name.
 16 MR. FAHRENKROG: You can recall it if you
 17 think of it.
 18 THE WITNESS: I will.
 19 Q. (BY MS. BARTOSIAK) He is in the Pediatric and
 20 Infectious Disease Department at Mayo?
 21 A. Yes, ma'am.
 22 Q. Anyone else?
 23 A. There is Tom Boyle.
 24 Q. Thank you.
 25 Are you aware of Mayo's policy on its physician
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1 doing any type of expert consulting?
 2 A. Yes, ma'am, I am.
 3 Q. What have you been told that policy is?
 4 A. The policy is that typically, they are not
 5 allowed to do it on their own unless they are asked
 6 specifically by the Mayo Legal Department.
 7 Q. Have you advised them that you have many
 8 pending open cases where you are acting as an expert?
 9 A. Yes, ma'am, I have.
 10 And they were -- They did understand that was
 11 one of the, I guess, conditions of me accepting this
 12 job, that I would have to complete the cases that were
 13 already pending.
 14 Q. Okay. Will your practice, in any way, have any
 15 significant change with respect to your specialty or
 16 what you do between what you do here in Texas and what
 17 you will be doing at Mayo?
 18 A. My understanding is no.
 19 Q. Okay. And tell me what does your practice
 20 consist of here in Texas?
 21 A. My practice consists of, first of all,
 22 providing patient care. The diagnosis, treatment and
 23 management of infectious or potentially infectious
 24 processes in children.
 25 It consists of the development and application
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1 of preventative measures for infectious processes in
 2 children.

3 It also includes teaching the medical students,
 4 residents, fellows and other members of the house staff.

5 It involves doing a small amount of
 6 administrative and research work.

7 Q. What percentage of your time would you say is
 8 spent on patient care?

9 A. As you may be aware, patient care and education
 10 many times, go together.

11 But, I would say patient care represents 75 to
 12 80% of my time.

13 Q. And of that 75 to 80%, what percentage would
 14 you say involved treatment of neonates?

15 A. A significant part of that. At least half of
 16 it.

17 Q. Of your practice here in Texas, can you give me
 18 any type of estimate as to the number of neonates that
 19 you diagnose and treat meningitis?

20 A. Yes.

21 And I had a few seconds to think about the
 22 previous question.

23 Q. Okay.

24 A. I did say it was a significant part. It's
 25 probably not as high as 50%. It may be more in the
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1 neighborhood of 40%.

2 Q. Okay. That's fine.

3 A. I apologize for that.

4 We are the largest newborn nursery in the
 5 country. And unfortunately, we have a high incidence of
 6 meningitis just because of the number of patients that
 7 we have.

8 So, in any given month, I see anywhere from two
 9 to ten cases of meningitis anymore.

10 Q. Have you ever treated an infant for meningitis
 11 which you believe resulted from an infected
 12 cephalhematoma?

13 A. (No answer).

14 Q. I am talking about your entire career.

15 A. I may have in one or two occasions.

16 But, I don't recall any specific times doing
 17 so.

18 Q. Okay. Well, do you agree with me that
 19 infections of cephalhematomas resulting in meningitis
 20 would be extremely rare?

21 A. I would agree with you that they are rare.

22 Q. In fact, are you familiar with any of the
 23 literature as to the percentage of infected
 24 cephalhematomas that were thought to have led to
 25 meningitis as to any of the percentages?
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1 A. I am not aware of any literature of giving that
 2 specific citation.

3 I am aware of a recent article that reviewed
 4 the subject.

5 Q. What article is that?

6 A. Well, it's an article that appeared in the year
 7 2000. And I believe the last name of the author is
 8 Hawkins.

9 Q. What do you remember with that article
 10 regarding infected cephalhematomas in meningitis?

11 A. That it basically talks about their experience
 12 with one patient.

13 And they review the number of cases that have
 14 been reported in recent years.

15 Q. And in the review of the number of cases, do
 16 you remember the percentages as to the number of cases
 17 that they found involving infected cephalhematomas in
 18 meningitis?

19 A. No.

20 Q. Okay. In that article, was there a discussion
 21 of treatment for infected cephalhematomas?

22 A. Yes, there is.

23 Q. And in that article, did it state that, in
 24 fact, treatment of infected cephalhematomas through
 25 aspiration is discouraged?
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1 A. Well, I do not recall the specifics of that
 2 article.

3 Q. Okay. Well, do you remember what the article
 4 said at all with respect to treatment?

5 A. Not specifically.

6 Q. So, as you sit here today, you do not remember
 7 ever treating a neonate who had an infected
 8 cephalhematoma, which you believe eventually led to
 9 meningitis; is that true?

10 A. That's correct.

11 Q. Can you tell me what you believe the percentage
 12 of neonates who end up with a cephalhematoma is?

13 A. No, ma'am.

14 I do not know that number.

15 Q. Do you have any idea what percentage of
 16 newborns end up with a cephalhematomas?

17 A. I would say a relatively small percentage. I
 18 would "guesstimate" maybe 3 to 5%.

19 Q. Would you be surprised if there is literature
 20 out there indicating that, in fact, the percentage is
 21 lower, 1 to 2%?

22 A. No, I would not be surprised.

23 MR. FAHRENKROG: Can I clarify.

24 Is that 1 to 2% of all the neonates or just
 25 those who had vacuum extraction?
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MS. BARTOSIAK: All neonates.

MR. FAHRENKROG: Okay.

Q. (BY MS. BARTOSIAK) Can you, for the record, tell us what you were provided with as far as depositions and medical records.

A. I will be glad to.

I was provided with records from Dr. John Grechus.

Q. "Grechus."

A. "Grechus?"

Q. Yes.

A. I was provided with records from Parkland Hills Hospital.

Q. "Parkland?"

A. Parkland, yes.

Q. Okay.

A. And I was provided with records from Dr. Jay Hof, H-o-f. I was provided the records from St. Louis Children's Hospital.

Q. Both admissions or...

A. Yes, ma'am, both admissions.

Q. All right.

A. I was provided with the deposition and index for Dr. Jonathan Gitlin, Dr. Connick and Dr. McGann.

And I was provided with a copy of the Third

has handwritten notes.

A. Yes.

These are notes that were part of the records that were sent. (Indicating).

Q. Okay. So, those are not notes on Exhibit No. 3 that you made per se?

A. That is correct. That's right.

Q. Okay. Do you know who made those notes?

A. No, ma'am.

Q. All right. Do you have any notes on any of the medical records, depositions or anything else that you have been provided?

A. No, ma'am.

Q. Okay. Do you have any handwritten notes anywhere on this case?

A. No, ma'am.

Q. Did you ever ask Mr. Fahrenkrog or anyone from his office who made these notes on the deposition indexes?

A. No, I did not.

MR. FAHRENKROG: If you can't read it, it's probably my signature.

MS. BARTOSIAK: Okay.

Q. (BY MS. BARTOSIAK) These notes seem to reference, potentially, some depositions, but I am not

Amended Petition.

Q. Okay. Were you provided with any other depositions other than the three that you have told me?

A. No, ma'am.

(Marked for identification as Correa Exhibit No. 3).

Q. (BY MS. BARTOSIAK) Okay. And I am going to hand you to you what has been marked as Exhibit No. 3. And can you tell me what those are.

A. Yes, ma'am.

This is the deposition index for the three depositions previously mentioned.

Q. Check that. I think there may be only two.

A. There is just the two of them.

Q. Which ones?

A. Dr. McGann and Dr. Gitlin.

Q. Okay. And I think there is another index in there, but I pulled those out because you had notes on them. That's why.

A. Okay.

Q. Okay. Do you have notes on those deposition indexes?

A. No, ma'am.

Q. All right. Can you take a look, because I think that's why I marked it, that you had or somebody

sure.

Can you tell what they are referencing?

A. They appear to be referencing to the medical records specifically.

Q. Okay.

A. But...

Q. So, the numbers on there reference the paginated set of the medical records, is that right, Doctor?

A. Well, I mean, to be honest, I am stretching it a little bit.

Q. Okay.

A. When I reviewed these documents, I really actually reviewed the depositions, and did not rely on this part. (Indicating).

Q. All right. You did not --

A. So, I don't know what it really means.

Q. Okay.

A. I prefer not to give an opinion.

Q. Okay. So, you didn't go and -- Where it has handwritten notes, and then, says "page whatever" of the medical records, you didn't go back to the medical records and look at that page to see if, in fact, it says what is contained in those notes, is that right?

A. That is correct.

1 57
 1 Q. Okay. Can you hand me that. (Indicating).
 2 A. (Handed).
 3 (Marked for identification as Correa
 4 Exhibit No. 2).
 5 Q. (BY MS. BARTOSIAK) I am handing you what has
 6 been marked as Exhibit No. 2.
 7 Can you identify that for me?
 8 A. Yes, ma'am.
 9 These are a number of letters that I have
 10 received from the firm where Mr. Fahrenkrog is employed.
 11 Q. Okay. Is that an exhibit to all of the
 12 correspondence which you have received from the
 13 Walther/Glenn Law Firm?
 14 A. Yes, ma'am, it is.
 15 Q. Okay. Do you have any invoices for your work
 16 that has been done in this case?
 17 A. If I remember correctly, the only amount of
 18 money that I have received was the initial retainer
 19 charge.
 20 Q. And how much was that for, sir?
 21 A. That was a thousand dollars.
 22 Q. And have you already gone through -- What does
 23 that get you, for a thousand dollars?
 24 A. About three-and-a-half hours.
 25 My regular fee is three hundred dollars for a
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1 58
 1 review of the records.
 2 Q. Okay. And have you spent time beyond the
 3 three-and-a-half hours?
 4 A. Yes, I have.
 5 Q. Okay. And have you kept track of that time
 6 somewhere?
 7 A. No, ma'am.
 8 Q. So, how do you know how much additional time
 9 you have spent?
 10 A. Well, I know in my mind.
 11 Q. Okay. And how much additional time have you
 12 spent?
 13 A. Before the deposition, an additional three
 14 hours.
 15 Q. Okay. So six and-a-half hours on this case is
 16 the time that you have spent?
 17 A. Yes, ma'am.
 18 Q. And that includes reviewing all of these
 19 medical records and all of the depositions?
 20 A. Yes, that's correct.
 21 Q. Okay. And you have not submitted a bill to Mr.
 22 Fahrenkrog for those fees?
 23 A. That is correct.
 24 Q. Do you plan to?
 25 A. Yes, ma'am.
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1 59
 1 Q. All right. And how much do you charge for a
 2 deposition?
 3 A. \$500.00 an hour. That's our standard Baylor
 4 fee.
 5 Q. And does that money -- The \$500.00 an hour you
 6 said is the standard Baylor fee, does that money go
 7 directly to you personally?
 8 A. Yes, ma'am.
 9 Q. And how about trial testimony, how much do you
 10 charge?
 11 A. The more recent schedule in cases is \$600.00 an
 12 hour.
 13 Q. And do you expect to be reimbursed fully for
 14 your travel expenses?
 15 A. Yes, ma'am.
 16 Q. And you might want to require a retainer on
 17 that.
 18 Okay. Can you tell me what opinions you have
 19 with respect to causation in this case?
 20 A. Yes, ma'am.
 21 It is my opinion that this case involves a
 22 series of events that led to the ultimate tragic outcome
 23 of deafness and neurologic compromise.
 24 In my opinion, these events began with the
 25 introduction of a bacteria called e-coli which was
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1 60
 1 introduced at the time of birth, close to the time of
 2 birth during the perinatal period, through a scalp
 3 electrode.
 4 This bacteria then gained access to the
 5 cephalhematoma. And at that time, is when it first gave
 6 clinical manifestations.
 7 After setting up in the cephalhematoma, the
 8 bacteria was partially treated by the administration of
 9 antibiotics for a period of four to five days.
 10 And after the discontinuation of the
 11 antibiotics, it returned then leading or progressing to
 12 meningitis and the infection and inflammation of the
 13 membranes that cover the brain.
 14 And this inflammation is what led to his
 15 deafness.
 16 Q. All right.
 17 A. And other neurologic involvement.
 18 Q. Okay.
 19 A. That, in a nutshell, is my opinion.
 20 I guess if we are speaking as to causation, it
 21 is also my opinion that had appropriate antibiotics in
 22 management of this infection occurred before February
 23 11, it is more likely than not that his neurologic
 24 outcome would have been completely normal.
 25 Q. All right.
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1 A. Not only appropriate antibiotic in management
2 but, any situation that would have broken this chain of
3 events.

4 But, by that, I mean if the cephalhematoma had
5 not formed, or if the scalp had not been pierced, that
6 would have, more likely than not, disrupted this chain
7 of events.

8 Q. All right.

9 A. Similarly, timely and appropriate treatment of
10 this infection at the time of the first admission on
11 January 31st, would, more likely than not, have
12 interrupted the progression of an infected
13 cephalhematoma to a full blown meningitis.

14 Q. Okay. Is that your opinions, in general? And
15 I will go back and ask you specific questions. But
16 would that be in general?

17 A. Yes, ma'am.

18 Q. Okay.

19 MR. FAHRENKROG: Let me say, for the
20 record, that I think we also said in disclosure of
21 expert memorandum that he had some opinions on standard
22 of care and departure, but he does only with respect to
23 subjective standard of care and departure.

24 He will not be testifying at trial regarding
25 any objective standard of care departure. That is, he

1 will not be testifying that he feels that Defendant "X"
2 departed from standard of care by doing A, B and C.

3 If asked, he does have opinions of what he
4 would have done in that particular scenario, which I
5 would label as a subjective standard of care.

6 I hope that clarifies the issue.

7 MS. BARTOSIAK: Clearly. Okay.

8 MR. FAHRENKROG: Just it is not in the
9 disclosure.

10 MS. BARTOSIAK: In fact, it is anticipated
11 the Doctor will render opinions as to causation and
12 damages as to all defendants.

13 MR. FAHRENKROG: Well, let me say this,
14 then.

15 If you wish to inquire of him in that manner,
16 you are welcome to do so.

17 And I will stipulate that that will not, in any
18 way, waive any objections that you would have as to his
19 testifying as to the subjective standard of care at the
20 time of trial, and that that would be preserved for you
21 to bring up at an appropriate time to prevent him from
22 doing that.

23 MS. BARTOSIAK: Okay. Can we take a
24 two-minute break real quick.

25 MR. FAHRENKROG: Sure.

1 (Break had).

2 Q. (BY MS. BARTOSIAK) Can you tell me where you
3 believe the e-coli came from that led to this baby's
4 meningitis?

5 A. Yes, ma'am.

6 It's very likely that it came from the maternal
7 flora. This mom was heavily colonized with e-coli.
8 Not only did she have it in her urine, but she probably
9 had it in her genital tract also.

10 Q. And what do you believe was the route of
11 transmission of the e-coli from the mother to the baby?

12 A. It was probably through the break in the skin
13 that occurred when the electrode was placed.

14 Q. Are there any other possibilities for how the
15 e-coli could have been transmitted to the infant from
16 the mother?

17 A. Certainly.

18 We know that transmission can also occur at the
19 time of the passage through the birth canal. And that
20 involves colonization of the GI tract or the umbilical
21 cord site.

22 Q. Any other possibilities in your mind?

23 A. A more remote possibility is that the bacteria
24 was present in the mother's bloodstream, and that in one
25 way or another it was able to reach the fetal

1 bloodstream and lead to bacteremia in the newborn.

2 Q. Are you willing to testify, to a reasonable
3 degree of medical certainty, that you believe the e-coli
4 was transmitted from the mother to the infant through
5 the breakdown in skin in the scalp electrode?

6 A. Yes, ma'am.

7 I will testify that it is more likely than not
8 that it was transmitted from the mother, and that the
9 transmission occurred at the site of the fetal electrode
10 placement.

11 Q. And what basis do you have for determining that
12 in your opinion, it came from a scalp electrode versus
13 the other two ways that you have described?

14 A. First of all, it's the susceptibility of the
15 e-coli.

16 It has the exact same pattern of susceptibility
17 in the mother than in the baby. That indicates that it
18 is the same e-coli.

19 Second, is the fact that this baby developed a
20 localized infection at the site of this hematoma at the
21 site where the scalp electrode had been placed, and that
22 there was no evidence of bacteremia by blood cultures in
23 the baby.

24 Q. When you say that the baby had a localized
25 infection at the site of the hematoma, what are you

65

1 referring to there?

2 A. I am referring to the subgaleal abscess that

3 was eventually drained at the St. Louis Children's

4 Hospital.

5 Q. At the scalp electrode site, when the baby went

6 to Children's Hospital, did you review a description of

7 what the scalp electrode site looked like?

8 A. I don't recall specifically at St. Louis

9 Children's.

10 I know there is a description of a scalp

11 lesion, but, I do not recall the specifics of what their

12 description was.

13 Q. Okay. Were there any signs of infection at the

14 scalp electrode lesion?

15 A. No, there were not.

16 Q. Was there any type of hematoma at the site of

17 the scalp electrode lesion?

18 A. If you allow me for a second. (Indicating).

19 Q. Sure.

20 A. And if you would be kind enough to clarify what

21 time you are asking.

22 Q. Well, I am talking about when the baby entered

23 the St. Louis Children's Hospital on the first

24 admission.

25 A. It is just described as a positive abrasion at

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1 the occiput questionable scalp electrode site.

2 Q. So, was there any hematoma at the site of the

3 scalp electrode where the lesion was during the first

4 admission at Children's Hospital?

5 A. Well, there was a presence of an

6 cephalhematoma.

7 Unfortunately, I don't have a drawing that will

8 tell me if it was, indeed, over this site or not.

9 Q. Okay. So, as you sit here today, do you know

10 whether the cephalhematoma, in fact, encompassed the

11 area where the scalp electrode lesion was?

12 A. I do not know that at this time.

13 Q. Where was the cephalhematoma during the first

14 admission at Children's Hospital?

15 A. The records only mention a positive

16 cephalhematoma, but they don't give a specific location

17 as to where it was.

18 Q. Okay. So, as you sit here today, based on your

19 review of the medical records and the deposition

20 testimony, do you have an understanding of where the

21 cephalhematoma was located?

22 A. Yes, I do.

23 Q. And where was it located?

24 A. It is my understanding that it was located on

25 the right side.

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1 Q. All right. On the right side of what?

2 A. Allow me to get this for a second.

3 (Indicating).

4 Q. Okay.

5 A. I can't locate that.

6 MR. FAHRENKROG: (Indicating). (Discussion

7 en soto).

8 Q. (BY MS. BARTOSIAK) So, has Mr. Fahrenkrog

9 assisted you in pointing to a specific place in the

10 medical records?

11 A. Yes, ma'am.

12 MR. FAHRENKROG: Page 38.

13 MS. BARTOSIAK: Page 38.

14 THE WITNESS: Which one?

15 MR. FAHRENKROG: (Indicating).

16 THE WITNESS: Okay. It says:

17 "Bilateral occipital parietal area."

18 Q. (BY MS. BARTOSIAK) Okay. And where is that

19 area? Describe it for me.

20 A. That is the area superior and posterior to the

21 ear.

22 Q. Okay. Can you show me, on your head, where

23 that area would be?

24 A. Okay. I will be glad to. It is this area.

25 (Indicating).

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1 Q. Okay. So, you are pointing above your ear?

2 A. Superior and posterior.

3 Q. Okay. Towards the back of the head?

4 A. Yes.

5 Q. Do you have any idea how large the

6 cephalhematoma was?

7 A. No, ma'am.

8 It's just reported as a large soft tissue

9 accumulation.

10 Q. Okay. So, when you testified earlier that you

11 believe the e-coli came from what was transmitted from

12 the mother to the baby through the scalp electrode, and

13 I asked you why you said localized infection at the site

14 of the hematoma at the site where the scalp electrode

15 was, what did you mean by that since you don't know

16 whether the hematoma encompassed the scalp electrode

17 area?

18 A. Yes. Thank you for allowing me to clarify

19 that.

20 A localized infection at the site where the

21 hematoma is what my -- what indicates to me that that

22 was the route of the transmission.

23 You are, indeed, correct. There is no

24 indication that there was a specific infection right at

25 the site where this electrode was placed.

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1 Q. Okay. Thank you for trying to clarify that for
 2 me, but I apologize. You lost me.
 3 So, you agree that there was no sign of
 4 infection at the scalp electrode site, itself, during
 5 the first admission, is that right?
 6 A. That is correct.
 7 Q. Okay. So, what basis do you have for
 8 testifying that the transmission went from the scalp --
 9 through the scalp electrode site from the e-coli from
 10 the mother to the baby?
 11 A. And what I would -- What would indicate to me
 12 that that was a macunus transmission was the fact that
 13 this child developed a localized infection at the site
 14 of the cephalhematoma with a bacteria with the same
 15 susceptibility pattern as the mother and without
 16 evidence of systemic involvement which discounts the
 17 possibility that this was a hematogenous transmission.
 18 Q. So, in your opinion, the e-coli could not have
 19 been transferred from the mother to the baby through the
 20 bloodstream or birth canal without evidence of systemic
 21 involvement?
 22 A. (No answer).
 23 MR. FAHRENKROG: Objection to the form.
 24 It's compound.
 25 THE WITNESS: I don't think I have said
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1 that it's not possible.
 2 I think that it is significantly less likely
 3 that that was the route of transmission.
 4 Q. (BY MS. BARTOSIAK) Okay. And what, in your
 5 opinion, makes it more likely through the scalp
 6 electrode was the route of transmission?
 7 A. Again, the fact this was a localized infection
 8 to the skull or the area around the skull, and the fact
 9 that there was no evidence of systemic involvement.
 10 If this bacteria had been transmitted by the
 11 bloodstream or by colonization of the umbilical stump,
 12 then, I would have expected that the bacteria would have
 13 to travel in the bloodstream in order to get to that
 14 cephalhematoma in order to eventually cause meningitis.
 15 And we have no evidence that that was the case.
 16 In fact, the blood cultures, on both occasions,
 17 were negative.
 18 Q. Okay. And what about through the birth canal;
 19 would that same analysis apply?
 20 A. Oh, yes.
 21 The birth canal -- The transmission from the
 22 blood canal is similar to what you have when you have
 23 colonization of the umbilical stump or colonization of
 24 GI tract, that it is just -- that is the mechanism.
 25 The baby first gets colonized somewhere in his
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1 respiratory tract, or his GI I tract or in the skin, and
 2 then, the bacteria gains access to the bloodstream and
 3 goes to the site where the infection will eventually
 4 manifest.
 5 That is the most common route in which we see
 6 children develop meningitis.
 7 Q. Okay. So, if this baby had been transmitted
 8 the e-coli from the mother through the birth canal, you
 9 would have expected the blood work to have been
 10 positive, is that correct, during the first submission?
 11 A. That is correct.
 12 The blood culture.
 13 Q. Okay. And the same would be true; you would
 14 expect the blood cultures to be positive during the
 15 first admission if the transmission route was through
 16 the mother's bloodstream to the infant, is that right?
 17 A. Yes, ma'am, that's correct.
 18 Q. Are you, in any way, critical of the decision
 19 to use a scalp electrode?
 20 A. I do not have an opinion.
 21 Q. How do you believe that this baby ended up with
 22 a cephalhematoma?
 23 A. It is my opinion that most likely the
 24 cephalhematoma was related to the use of a vacuum
 25 extractor and complicated by a difficult delivery.
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1 Q. And what was it about the use of the vacuum
 2 extractor that makes you believe that was the most
 3 likely cause of the cephalhematoma?
 4 A. It is a well recognized association of the use
 5 of vacuum extractors and the development of
 6 cephalhematomas and/or CAPUT.
 7 Q. Okay. And when you say "complicated by a
 8 difficult delivery," what were you referring to?
 9 A. Oh, I was referring to the fact that this was a
 10 delivery that took a longer-than-expected time for
 11 delivery.
 12 What I am trying to refer to is the reason why
 13 the vacuum extractor was used.
 14 Q. Okay. So, you believe that the vacuum
 15 extractor was used because the delivery was taking
 16 longer than expected?
 17 A. Well, no, no.
 18 I guess that would not really fall into what my
 19 testimony is.
 20 What I am trying to say is there was some
 21 complications of the delivery that made the delivering
 22 obstetrician make a decision to use a vacuum extractor.
 23 Q. Okay. And do you know, as you sit here today,
 24 what those complications were, and why he used the
 25 vacuum extractor?
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1 A. No, I do not.

2 Q. Okay. Is development of a cephalhematoma a

3 known complication of the use of a vacuum extractor?

4 A. Yes, ma'am.

5 Q. During your residency, did you do an OB

6 rotation?

7 A. Yes, I did.

8 Q. Have you ever used a vacuum extractor?

9 A. I have seen it used.

10 I don't remember personally using it.

11 Q. Okay. And what about a scalp electrode, did

12 you ever use one of those during your rotation?

13 A. Yes, ma'am.

14 Q. Do you believe that the potential for

15 transmission of infection through the site of a scalp

16 electrode is a known complication in the use of a scalp

17 electrode?

18 A. Yes, ma'am.

19 Q. Okay. And are you prepared to offer any

20 opinions with respect to the use of the vacuum extractor

21 in this case?

22 A. No, I am not.

23 Q. When it was appropriate?

24 A. No, I am not.

25 Q. All right. Explain to me what you believe is

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1 the mechanism for the e-coli gaining access to the

2 cephalhematoma.

3 A. There is a small number of possibilities.

4 One would be actually a direct access.

5 If the scalp electrode was placed and got in

6 contact with the periosteum of the skull, then, it is

7 possible that the bacteria was directly introduced to

8 that site.

9 In addition, if the bacteria was just

10 introduced to the skin -- and by "introduced," I mean

11 either directly from the electrode, or because of the

12 opening that the electrode left, then, it could have

13 gotten there by direct extension, or by the

14 dissemination through the lymphatic channels.

15 Q. Any other possibility?

16 A. A less likely possibility is that the bacteria

17 gained access to that hematoma through the bloodstream.

18 Q. Of the three possibilities that you have given

19 as a mechanism for how the e-coli was transmitted to the

20 cephalhematoma, are you prepared to offer one of those

21 opinions as your opinion as to what happened in this

22 case to a reasonable degree of medical certainty?

23 A. I am prepared to say that more likely than not,

24 it was due to direct extension, either straight from the

25 electrode or from the surrounding tissue.

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1 Q. And what is the reason that you believe that

2 that route would be more likely than the other two

3 possibilities you have given us?

4 A. Well, I do want to clarify that.

5 That really includes two possibilities.

6 One is direct and the other is extension from a

7 close-by area.

8 But, the other two possibilities, hematogenous

9 is spread through the blood is less likely because,

10 again, we did not have evidence of systemic infection

11 and we did not have positive blood cultures.

12 And the fourth one is also less likely, because

13 the lymphatic drainage in that area would not favor that

14 explanation.

15 Q. Okay. I think our numbering is a little

16 different.

17 I had, as No. 1, if direct access as the scalp

18 electrode was placed in, you know, direct contact with

19 the skull.

20 You believe that that one was unlikely in this

21 case?

22 A. No, ma'am.

23 I think that is one of the two likely

24 possibilities.

25 Q. Okay. So, when you talked about direct from

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1 the electrode or an opening direct extension, you were

2 talking about the scalp electrode being placed in

3 contact with the skull?

4 A. Well --

5 Q. Because I had those as two separate ones.

6 A. Yes. No.

7 Well, I do have them as two separate

8 possibilities.

9 Q. Okay.

10 A. But, together being the most likely scenario.

11 So, what I am saying is:

12 One, the electrode actually carried the

13 bacteria directly into the cephalhematoma.

14 The other one is the electrode or the opening

15 that the electrode left, allowed for the bacteria to

16 multiply in an area adjacent to the cephalhematoma, and

17 eventually the bacteria was able to track into the

18 cephalhematoma.

19 Q. In your opinion, those are the two most likely

20 ways that this occurred?

21 A. Yes, ma'am.

22 Q. Okay. Do you have an opinion, to a reasonable

23 degree of medical certainty, between those two, which

24 one of them most likely occurred in this case?

25 A. No, ma'am.

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1 It is not possible to determine that.
 2 Q. Okay. And why is it not possible?
 3 A. Because there is no clinical evidence to favor
 4 of one or the other.
 5 We would have had to have an autopsy and be
 6 able to see the tract, itself, or the abscess, itself.
 7 Just based on what the clinical picture is, I
 8 can only say that one of those two was the most likely
 9 mechanism.
 10 Q. For the theory that it came through the opening
 11 or was allowed for bacteria in an area to multiply
 12 adjacent to the cephalhematoma, and eventually track
 13 into the cephalhematoma, is there any clinical evidence
 14 that you can point to to support that opinion?
 15 A. No, ma'am.
 16 I tried to clarify that there is no clinical
 17 evidence to point to one being more likely than the
 18 other.
 19 Q. Okay. But, what about is there any clinical
 20 evidence in support of either of those two theories?
 21 A. Yes.
 22 And, it's, again, what I have explained before
 23 that there was no indication of systemic involvement to
 24 account for a hematogenous route.
 25 Q. Okay. So, other than the negative blood
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1 cultures, is there any other clinical evidence?
 2 A. No, ma'am.
 3 Q. For the scalp electrode to be placed in direct
 4 contact with the skull, how far would the scalp
 5 electrode have to be pushed in?
 6 A. Well, I am not an expert on the subject, but, I
 7 understand that the distance between the bone and the
 8 skin at the area of the skull is incredibly small. We
 9 are talking about milliliters.
 10 So, I don't think it would be a significant
 11 distance that it would need to be pushed in.
 12 Q. If the scalp electrode had made direct contact
 13 with the skull, as one of your theories, would you
 14 expect to see anything on radiographically or in any
 15 other way to demonstrate that?
 16 A. No, ma'am.
 17 And I do want to clarify that my theory says
 18 that it would get to the cephalhematoma, not necessarily
 19 the skull, although the cephalhematoma in this case was
 20 part of the skull.
 21 Q. Okay.
 22 A. But, there was evidence that --
 23 Q. Okay. Wait a minute.
 24 Mr. Fahrenkrog has just recently pulled out of
 25 his copy of the records a highlighted page 9.
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1 Did that somehow assist you in responding to my
 2 question?
 3 A. Well, it has not yet.
 4 Q. Okay. What is it that you were wanting to say,
 5 to add to it?
 6 A. Well, I was going to clarify that there was
 7 radiographic evidence of a fracture or a fissure in the
 8 skull.
 9 But, that does not indicate that it was from
 10 the electrode.
 11 Q. Do you have any opinion as to what was the
 12 cause of that fissure?
 13 A. Yes.
 14 It is my opinion that that was the result of
 15 the traumatic delivery.
 16 Q. So, in fact, it's your opinion that you don't
 17 believe that that fissure was the result of the scalp
 18 electrode being pushed in?
 19 A. What I am saying is there is no -- I cannot
 20 say that that fissure was the result of a skull scalp
 21 electrode.
 22 Q. When do you think, timing wise, that the e-coli
 23 was transmitted into the cephalhematoma?
 24 A. It's impossible to point out the exact time,
 25 but I do believe it was in the perinatal period.
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1 Q. What do you mean by the "perinatal period?"
 2 A. By that, I mean the hours prior to and
 3 following the delivery.
 4 Q. When did this infant first have clinical signs
 5 that, in your opinion, demonstrated that the infant may
 6 have an e-coli infection?
 7 MR. SPATARO: Objection to lacking
 8 foundation that he said this was an infection.
 9 Q. (BY MS. BARTOSIAK) Or e-coli present.
 10 A. Would you be kind enough to repeat the question
 11 on that?
 12 Q. Sure, sure.
 13 When do you believe that this infant first had
 14 signs clinically of the e-coli being present in the
 15 cephalhematoma, or in the adjacent area that you have
 16 described?
 17 A. It is my opinion that those manifested around
 18 January 30th.
 19 I apologize. I am sorry. Well, let me
 20 double-check.
 21 Between January 30th and 31st.
 22 Q. And what were those signs?
 23 A. The main signs were irritability, fever and
 24 jaundice.
 25 Q. Could the irritability, fever or jaundice have
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1 been caused by anything other than the presence of the
2 e-coli?

3 A. It is possible, but not probable.

4 Q. Why not?

5 A. Because in this case, we have the benefit of
6 knowing what happened at a later time and we know that
7 eventually this was diagnosed as being an infected
8 hematoma.

9 I believe that all three of these symptoms
10 would be explained by the infection being present on or
11 around January 31st.

12 Q. Is it your opinion that if the cephalhematoma
13 had been drained or aspirated on January 31st, that the
14 testing of the fluid would have demonstrated e-coli?

15 A. Yes.

16 It is my opinion that if that hematoma had been
17 aspirated -- And I don't know if this would have been
18 an indication or not -- but, that if it had been
19 aspirated, that more likely than not that e-coli would
20 have been isolated.

21 Q. What is the basis of that opinion?

22 A. It's based on the clinical symptoms that the
23 baby had at that time.

24 Again, without those, the fever, the
25 irritability, the stiff neck, the increased tone in the

1 have grown if it was only on the adjacent tissue.

2 But, it is my opinion that by that time, the
3 infection was already, indeed, part of the
4 cephalhematoma.

5 Q. So, it's your opinion that by January 30, the
6 e-coli was already at a detectable level in the
7 cephalhematoma?

8 A. It's my opinion that it is likely that around
9 January 31st, that infection was or would have already
10 been detectable in the cephalhematoma.

11 Q. And is it your opinion that on January 31st,
12 the seven signs that you have described were all the
13 result of this e-coli being present in the
14 cephalhematoma?

15 A. I would say, with confidence, that at least six
16 of them would have been indicators of the presence of
17 the e-coli in the cephalhematoma.

18 I am excluding jaundice because that may have
19 been a manifestation of a cephalhematoma irrespective of
20 whether it's infected or not.

21 Q. So, Doctor, am I correct that you believe on
22 January 31st, the fever, irritability, stiff neck,
23 increased tone in the lower extremities, subtle seizures
24 and decrease in axial tone were all caused by the e-coli
25 being present in the cephalhematoma?

1 lower extremities, the subtle seizure-like activity.

2 Q. Anything else?

3 A. And I don't know if I mentioned the jaundice.

4 MR. FAHRENKROG: You did.

5 I have got six down; "irritability, fever,
6 jaundice, stiff neck and increased tone in the lower
7 extremities and subtle seizure-like activity."

8 THE WITNESS: Okay.

9 Q. (BY MS. BARTOSIAK) Are you still looking,
10 Doctor?

11 A. Yes, ma'am.

12 Q. Sure.

13 A. If you allow me for a second.

14 Q. Sure.

15 A. And the decrease in the axial tone.

16 Q. As well as what we know was the ultimate
17 outcome of this child are indicative that an aspiration
18 of the cephalhematoma at or around January 31st would
19 have yielded the e-coli bacteria?

20 Q. If the e-coli was actually in the area
21 adjacent, that you have described, would you still
22 expect if the cephalhematoma was aspirated, for the
23 e-coli to be in that fluid?

24 A. If the aspiration would have been exclusively
25 of the fluid, I would not have expected, or, it may not

1 A. I do believe that all of those signs were,
2 indeed, indicative of the e-coli being present in the
3 cephalhematoma.

4 And if I may, I have one more that I had
5 neglected to mention which is the downward gaze that
6 this baby had.

7 Q. I don't want to quibble with you over words,
8 Doctor, but, you confused me when you said "indicative."

9 Are you saying that they were caused, in your
10 opinion, by the presence of e-coli in the
11 cephalhematoma?

12 A. I am indicating that they were caused by the
13 presence of the e-coli in the cephalhematoma.

14 Q. Okay. For the fever, irritability, stiff neck,
15 increased tone, subtle seizures, decrease in axial tone
16 and downward gaze, did you consider any other potential
17 causes of those when you were reviewing these records?

18 A. Yes.

19 And I believe actually the physician caring for
20 this child considered some of those, too.

21 And before we go too far, I want to clarify
22 these were possible subtle seizures.

23 I don't think they were ever documented.

24 Q. Okay.

25 A. And in fact, the EEG, at that time, was normal.

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1 Q. Okay. So, what other potential causes did you
 2 consider?
 3 A. When one is evaluating a child with this kind
 4 of picture, one has to consider the possibility of a
 5 hemorrhage, the possibility of a cerebral vascular
 6 accident, the possibility of an encephalitis, an
 7 infection of the brain.
 8 The possibility of hypoxic ischemic injury, a
 9 possibility of a congenital abnormality of the brain.
 10 Q. All right.
 11 A. But, most of them would not be characterized
 12 with fever associated with the other symptoms with maybe
 13 the exception of encephalitis.
 14 Q. In your opinion, because of the presence of
 15 fever with those other associated symptoms, is that why
 16 you ruled out these other potential causes that you have
 17 discussed?
 18 A. Well, it's not the only reason.
 19 And in fact, the physician caring for this
 20 child did work out some of the other possibilities by
 21 doing imaging studies, by obtaining studies for the
 22 viruses that cause encephalitis, by looking for
 23 anatomical malformations.
 24 Q. Did the physicians specifically rule out all of
 25 these other potential causes?
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1 A. I don't see a note that reflects that they
 2 ruled out every single one of them.
 3 I can go back, and in my mind, see that some of
 4 them were considered.
 5 For example, specifically in the case of
 6 encephalitis, they obtained a test called a PCR for the
 7 herpes virus which, in turn, was negative.
 8 Q. Based upon your review of the record, were any
 9 of these other potential causes still considered part of
 10 the physicians' differential when, in fact, this infant
 11 was discharged?
 12 A. It is my opinion that, indeed, some of those
 13 were still considerations in their mind.
 14 Q. And which ones were still considerations based
 15 on your review of the record?
 16 MR. FAHRENKROG: This is on February 3rd,
 17 the discharge, Teresa?
 18 MS. BARTOSIAK: Correct.
 19 THE WITNESS: February 3rd?
 20 Q. (BY MS. BARTOSIAK) Yes.
 21 A. I believe the possibility of subtle seizures
 22 was still a consideration.
 23 And in the opinion of the treating neurologist,
 24 there was also a question regarding what the source of
 25 the findings was.
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1 Q. For the subtle seizures or for what?
 2 A. For the clinical picture, for the six or seven
 3 findings that we have discussed.
 4 Q. So, based upon your review of the medical, what
 5 of those other potential causes were still included in
 6 the differential?
 7 A. Well, I believe that at that time, the only
 8 consideration would have been that of an infected
 9 cephalhematoma.
 10 That's a possibility.
 11 Q. So, based upon your review of the records, you
 12 believe that the physicians at St. Louis Children's
 13 Hospital only had, in their differential as to the cause
 14 of this child's symptoms, an infected cephalhematoma?
 15 MR. FAHRENKROG: Let me just object.
 16 I think it is unclear whether you are asking
 17 him was that his understanding of what was in their
 18 minds, or is that his understanding of what should have
 19 been in their minds based upon his review of the chart.
 20 I think it's unclear.
 21 Q. (BY MS. BARTOSIAK) What I am asking you,
 22 Doctor, is based upon your review of the chart, what can
 23 you tell me, from your review of the chart, was still
 24 considered as part of the differential when this child
 25 was discharged during the first admission?
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1 A. In my opinion, a consideration should have
 2 still been the possibility of a parameningeal focus, an
 3 infection in the tissues surrounding the meninges.
 4 And in this particular case, an infected
 5 cephalhematoma.
 6 Q. Well, I understand, Doctor, that's your opinion
 7 of what you think should have been within their
 8 differential.
 9 But, I am asking you if you can tell, from
 10 reviewing the records, of the other possibilities,
 11 potential causes, that you outlined whether any of those
 12 were still included in the differential by the
 13 physicians at Childrens Hospital, if you can tell?
 14 A. Based exclusively on the review of the records,
 15 no, I cannot.
 16 Q. When do you believe -- What was the timing for
 17 the e-coli in the cephalhematoma to break through and
 18 seed in the bloodstream?
 19 MR. SPATARO: Objection as to lack of
 20 foundation, "broken and seeded in the bloodstream."
 21 THE WITNESS: There is actually no evidence
 22 that the bacteria seeded the bloodstream.
 23 Q. (BY MS. BARTOSIAK) So, Doctor, is it your
 24 opinion that the only way the physicians at St. Louis
 25 Children's Hospital would have been able to confirm that
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1 this child had e-coli in the cephalhematoma, during the
2 first admission, would be to have aspirated the
3 cephalhematoma?

4 A. Not necessarily.

5 It is possible that there could have been other
6 ways of making the diagnosis.

7 For example, the performance of an MRI or a
8 repeat CAT Scan may have given clues as to whether an
9 infection was developing or had developed at the site.

10 Q. And what would you see by an MRI in your
11 opinion?

12 A. Well, I am not a radiologist, but in my
13 experience, what you see is an area of increased
14 enhancement or an area of enhancement in the tissue
15 surrounding that infected cephalhematoma.

16 In other words, you start seeing the
17 development of what will be, later, an abscess.

18 You may also see some debris at the site of the
19 cephalhematoma from bacterial production, from bacterial
20 garbage, if that makes sense.

21 And finally, there could have been other
22 indirect ways of, at least, suspecting the diagnosis.

23 For example, repeating a lumbar puncture,
24 repeating a blood culture.

25 Those may have given clues as to whether this

1 including?

2 A. That's the only things that I am including in
3 that answer.

4 Q. Okay. But, as you sit here today, can you offer
5 an opinion, to a reasonable degree of medical certainty?

6 A. No, I can't.

7 MR. SPATARO: Let me object as lacking
8 foundation.

9 But go ahead.

10 THE WITNESS: No, I cannot.

11 Q. (BY MS. BARTOSIAK) And at what times were the
12 blood cultures performed on this infant? On what days
13 during the first admission?

14 A. What time?

15 Q. No.

16 What day?

17 A. The blood culture was actually performed at the
18 outside hospital.

19 MR. FAHRENKROG: Parkland.

20 THE WITNESS: Parkland Hospital.

21 Q. (BY MS. BARTOSIAK) And was that on January
22 31st?

23 A. Yes, ma'am.

24 Q. And what about the lumbar puncture, when was
25 that performed?

1 hematoma was infected or not.

2 But, the definite diagnosis would have been to
3 actually aspirate.

4 Q. Do you believe if an MRI would have been
5 performed or a repeat CAT Scan prior to this infant's
6 discharge during the first admission, that there would
7 have been evidence of the e-coli?

8 MR. FAHRENKROG: You haven't been clear
9 whether it's January 31st or February 3rd.

10 It may not make any difference to the Doctor
11 but, perhaps you can clarify what part of the
12 hospitalization.

13 MS. BARTOSIAK: Okay.

14 Q. (BY MS. BARTOSIAK) Do you believe that there
15 would have been evidence if an MRI or a repeat CAT Scan
16 had been done at any time during the first admission of
17 e-coli?

18 MR. SPATARO: Objection as lack of
19 foundation.

20 THE WITNESS: It's possible that there
21 would have been evidence of an infection if one of these
22 tests would have been done.

23 And I am answering exclusively as to an MRI or
24 a CAT Scan.

25 Q. (BY MS. BARTOSIAK) Okay. What else are you

1 A. The lumbar puncture was performed after his
2 admission or after his transfer to Children's Hospital.
3 And it is logged as 7:53 in the morning on the
4 31st.

5 Q. Is it your opinion that an additional blood
6 culture should have been performed in this case prior to
7 discharge?

8 A. Well, I say to clarify it, I am testifying as
9 to causation.

10 With that in mind, I would say that repeating a
11 blood culture may have been a consideration based on the
12 clinical course that this child had during his hospital
13 stay.

14 MR. FAHRENKROG: Just so it is clear,
15 Teresa, this is getting into the area of subjective
16 standard of care.

17 I don't think it has been clarified yet as to
18 whether that is a subjective standard of care.

19 But, you know, he will not testify to
20 subjective standard of care and departure.

21 MS. BARTOSIAK: Okay.

22 Q. (BY MS. BARTOSIAK) Can you offer any opinion,
23 to a reasonable degree of medical certainty, as to
24 whether a lumbar puncture done prior to discharge at St.
25 Louis Children's Hospital would have shown anything

1 different than the first lumbar puncture?

2 A. Yes.

3 It is my opinion that a repeat lumbar puncture
4 would have been normal if it had been done --

5 Q. And what do you base that on?

6 A. -- prior to discharge.

7 Q. I am sorry?

8 A. Based on the ultimate outcome and clinical
9 picture that this child had, we know that, indeed, he
10 ended up having a meningitis with a parameningeal focus.

11 And it is my opinion that a repeat lumbar
12 puncture may have added some additional information at
13 that time, and that it may have shown abnormalities that
14 were not seen in the original lumbar puncture.

15 Q. And that's your opinion to a reasonable degree
16 of medical certainty?

17 A. Yes, ma'am.

18 Q. How would the -- If the e-coli, in your
19 opinion, is -- you said you thought it was in the
20 cephalhematoma when the infant, by January 31st -- why
21 would the lumbar puncture done prior to discharge show
22 anything different than the lumbar puncture done on
23 January 31st?

24 A. Because there actually had been progression of
25 clinical symptoms.

1 If you take into account the progress that this
2 child had, he had continued to be febrile during --
3 having low grade fever during his hospital stay.

4 His neurologic exam had progressed to where he
5 had these abnormal movements that were thought to be
6 subtle seizures.

7 He had increased extensor -- increased
8 extension of the neck or extensor pressure of the neck,
9 and had developed a more significant downward gaze.

10 That, to me, indicates that there is
11 progression of the neurologic picture.

12 Q. In your opinion, would the same analysis apply
13 regarding the progress of the clinical symptoms as to
14 why you believe that a blood culture would be different
15 if performed different from January 31st if performed on
16 the day of discharge?

17 A. No.

18 In fact, I do not believe I have testified that
19 a repeat blood culture would have been different.

20 I just indicated that was one of the possible
21 tests to do.

22 But, I do not believe that a blood culture done
23 at that time prior to discharge, would have had or added
24 any significant information.

25 Q. Okay. If you had been presented with this

1 infant on January 31st, tell me what you would have
2 done.

3 MR. SPATARO: Objection to relevancy.

4 But go ahead.

5 THE WITNESS: Well, I believe that on
6 January 31st, the management, overall, was appropriate.

7 I would have requested a lumbar puncture; I
8 would have started broad spectrum antibiotics.

9 I may have considered the addition of a
10 cyclometer as it was done by the attending physician.

11 So, I believe that the initial management was
12 reasonable.

13 And now, in my personal opinion, I would have
14 repeated a blood culture prior to the initiation of my
15 antibiotic therapy.

16 And I would have requested a neurology consult
17 to help me understand why these symptoms that were
18 inconsistent with a simple cephalhematoma were
19 occurring.

20 Q. Would you have recommended aspiration of the
21 cephalhematoma?

22 A. Specifically on January 31st?

23 Q. During the first admission.

24 A. Okay. And I guess that's -- You know, your
25 question was presented to me on January 31st.

1 No.

2 If you ask me during this admission, I would
3 have further explored the neurologic symptoms at the
4 time of the discharge.

5 By that, I mean repeating a lumbar puncture,
6 repeating a CBC, consider obtaining a CAT Scan or an
7 MRI, and continuing antibiotics until the cause of those
8 symptoms was determined.

9 Q. All right.

10 A. If the results of one or a number of these
11 tests indicated the possibility of an infected
12 cephalhematoma, then, I would have asked our
13 neurosurgeons to obtain a sample of the fluid to
14 determine if it was, indeed, infected.

15 Q. Would you defer to a neurosurgeon on the issue
16 of whether they would want to, in fact, aspirate the
17 cephalhematoma?

18 A. Without insulting our neurosurgeon, I do
19 believe that if I felt strongly about aspirating a
20 cephalhematoma and the neurosurgeon refused, I would
21 seek the advice of or the help of another person if my
22 diagnostic consideration is a possibility of an
23 infection.

24 And you have to insist that they will do it.

25 Q. In your experience, how many cephalhematomas,

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1 with your patients, have you asked to be aspirated?
 2 A. I don't think it's a large number. Maybe six
 3 or seven.
 4 Q. Do you agree that there is a significant risk
 5 of actually introducing an infection into a
 6 cephalhematoma when you aspirate it?
 7 MR. FAHRENKROG: Objection to form as to
 8 "significant."
 9 THE WITNESS: I don't know exactly what the
 10 meaning of "significant" is.
 11 There is a risk.
 12 Q. (BY MS. BARTOSIAK) Would you consider it a high
 13 risk?
 14 MR. FAHRENKROG: The same objection.
 15 THE WITNESS: No.
 16 In fact, our neurosurgeons do aspirations
 17 everyday, and sometimes more than once in our newborn
 18 nursery patients.
 19 Aspirations of cerebral spinal fluid,
 20 aspirations of abscesses, aspirations for many different
 21 reasons.
 22 And fortunately, the rate of infection is very
 23 low.
 24 Q. (BY MS. BARTOSIAK) Of the six to seven
 25 cephalhematomas that, in your experience, you have asked
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1 to be aspirated, in any of those was infection actually
 2 introduced through the aspiration, to your knowledge?
 3 A. Not that I can recall.
 4 Q. Are there any contraindications for continuing
 5 an infant on antibiotic therapy when there is a negative
 6 blood culture and negative CSF?
 7 A. I don't believe there are any specific
 8 contraindications.
 9 Q. Is there any opinion that you are aware of, as
 10 far as pediatricians go, that you want to -- that you
 11 would be worried about keeping an infant on antibiotic
 12 therapy when there is no lab work to support that there
 13 is a presence of an infection?
 14 MR. FAHRENKROG: Objection to form as
 15 vague. Calls for speculation.
 16 THE WITNESS: I think I understand what you
 17 are trying to ask.
 18 And that is there is a common practice of
 19 discontinuing antibiotics on a child who is admitted for
 20 possible infection, febrile neonate.
 21 Typically we discontinue antibiotics after 48
 22 to 72 hours if our cultures remain negative, and if we
 23 have an alternative explanation for this in clinical
 24 symptoms.
 25 Now, this general guideline or general premise
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1 does not include patients who have abnormal findings or
 2 those in which an alternative diagnosis has not been
 3 made.
 4 Q. All right.
 5 A. An infection is still a consideration.
 6 Q. So, in your practice for infants who have
 7 negative cultures, but, abnormal findings for which
 8 there is an alternative diagnosis has not been
 9 determined, you would just continue them on antibiotics
 10 indefinitely until that alternative diagnosis is made?
 11 A. If there is still a -- if an infection is
 12 still a consideration, yes.
 13 In fact, it is a practice that is done nearly
 14 everyday.
 15 In the newborn nurseries, we have babies in
 16 which we suspect sepsis, the cultures are negative, but
 17 clinically, we don't have an explanation of why the baby
 18 developed those symptoms.
 19 And in those babies, we make the decision to
 20 treat for a longer period of time or until an
 21 alternative diagnosis is made.
 22 Q. What if, in those infants, no alternative
 23 diagnosis is ever made; do you just keep them on an
 24 antibiotic therapy?
 25 A. Unfortunately that does happen in an occasion
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1 where we decide to assume the worse-case scenario, the
 2 possibility of the symptoms being related to an
 3 infection.
 4 And in those cases we give a full course of
 5 antibiotics, whether it be ten or fourteen days,
 6 depending on the particulars of each case.
 7 Q. On this infant, you indicated that if you were
 8 treating the infant at the time of discharge during the
 9 first admission, you would have continued the infant on
 10 antibiotics.
 11 How long a course would you have continued the
 12 infant on?
 13 A. Well, you have to understand that if I would
 14 have continued antibiotics, I would have also continued
 15 working up the clinical manifestations that he was
 16 having.
 17 If I had not found an acceptable alternative
 18 explanation, then, I would have treated this child for a
 19 minimum of ten to fourteen days assuming that the worst
 20 case scenario was that this was infectious in nature.
 21 Q. Do you have an opinion as to whether this
 22 infant had been continued on antibiotics for the 10 to
 23 14 day-course, that you suggested, whether the infant
 24 ever would have developed meningitis?
 25 A. Yes, ma'am.
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1 It is my opinion that it would have been
2 extremely unlikely that he would have developed
3 meningitis.

4 Q. What do you base that on?

5 A. Based on my knowledge and understanding of how
6 e-coli behaves and responds to antibiotic therapy.

7 At that time, the infection was localized to a
8 hematoma.

9 Ten to fourteen days would have been plenty to
10 treat the infection at that site.

11 Unfortunately, when the infection was not
12 treated for that length of time, it was enough to
13 suppress it, but not completely kill it.

14 And it was not until days later that it became
15 evident as now a meningitis.

16 Q. Do you have an opinion as to the time frame
17 when you believe this infection became nonlocalized to
18 the hematoma?

19 A. Yes, ma'am.

20 I believe that occurred around the date of the
21 second admission to St. Louis Children's Hospital.

22 Q. Can you be a little more specific as to the
23 days.

24 A. If you allow me for a second. (Indicating).

25 Q. Sure.

1 outcome from that specific reason.

2 Q. Are you aware of any studies or medical
3 literature indicating that hearing loss associated with
4 meningitis is not affected by any type of earlier
5 diagnosis and treatment?

6 A. You are correct.

7 There are some studies that suggest that once
8 meningitis has established, that it's unlikely that
9 antibiotic therapy would make a difference.

10 My position is that at the time that this child
11 was admitted for the first time, on January 31st, that
12 he had not developed meningitis, and antibiotics given
13 for a full course at that time would have prevented the
14 development of meningitis.

15 Q. When you testified earlier that you believe the
16 series of events led to the outcome of Randall's
17 deafness and neurologic compromise, what were you
18 referring to?

19 A. Well, I understand that -- I have not examined
20 Randall, but I understand that after this episode, he
21 also developed seizures, and he has some disorders of
22 movements specifically.

23 I am not aware if he also has a component of
24 cerebral palsy or not, or, if he has a component of
25 mental retardation or not.

1 A. Yes, ma'am. I believe that Randall developed
2 fever and irritability on or around February 11th of
3 '99.

4 The development of these symptoms indicates to
5 me that the infection had now spread to the meninges.

6 Q. And do you base that solely on the fever and
7 irritability?

8 A. (No answer).

9 Q. In your opinion as to the timing?

10 A. Not only on that, but what were ultimately the
11 results of the lumbar puncture that was performed on
12 that second admission, which, at that time, indicated
13 that he had developed a full blown meningitis with
14 abnormality in the cell count and abnormality in the
15 concentration of glucose.

16 Q. Is it your opinion that if the child had been
17 continued on antibiotics for a course of ten to fourteen
18 days, that he would have been completely normal?

19 A. (No answer).

20 Q. I think that was your words.

21 A. I believe that what my opinion is is that the
22 -- He would not have had the outcome, the neurologic
23 outcome and deafness, that he had if -- If this
24 meningitis would have been stopped before it developed,
25 I would not have expected any abnormal neurologic

1 But, the records that I have, the only -- I
2 can only go as far as knowing that he has some definite
3 -- he has definite deafness and that he has other
4 neurologic abnormalities.

5 Q. When you say "definite deafness," do you know,
6 as you sit here today, the extent of Randall Parker's
7 hearing impairment, if any?

8 A. My understanding is that it is profound.

9 Q. What do you base that on?

10 A. On the records that I reviewed, the notes. If
11 you will allow me for a second.

12 Q. Sure. Go ahead.

13 A. (Indicating). I apologize. I apologize.

14 The results shown indicate that he had failed
15 his hearing test.

16 I do not have a specific indication as to what
17 the severity of his deafness is.

18 Q. So, as you sit here today, are you prepared to
19 offer any opinion at all as to what Randall Parker's
20 hearing impairment may be, if any?

21 A. No, I am not.

22 Q. What about when you said "neurologic
23 compromise," what were you referring to?

24 A. I was referring to the fact that he, later on,
25 developed seizures, and that he had to be on medication

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1 for those seizures.

2 Specifically on phenobarbital, is my

3 recollection.

4 Q. And where did you get that he had the seizures

5 that you are describing? Is that from the medical

6 records?

7 A. From the medical records.

8 Q. Which admission?

9 A. It is, actually, if I remember correctly, from

10 a later admission.

11 But, it was also in the second admission to St.

12 Louis Children's.

13 Q. When you say a "later admission," what are you

14 referring to?

15 A. There is an admission for a hearing test that

16 occurred on May 6th of '99.

17 And in that note, it indicates he received

18 phenobarbital for seizures twice a day.

19 Q. You haven't been provided with any of Randall

20 Parker's medical records within the past year or so, is

21 that correct?

22 A. That is correct.

23 Q. As you sit here today, are you prepared to

24 offer any opinions as to Randall Parker's neurological

25 status?

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1 MR. SPATARO: Objection as to lack of

2 foundation.

3 THE WITNESS: No, ma'am, I am not.

4 MR. FAHRENKROG: For the record, we expect

5 at trial, hypothesizing for him what Randall Parker's

6 current neurological condition is, and then, asking his

7 opinion as to causal in terms of the relationship.

8 So, just in case you are planning to spring

9 some sort of surprise at trial, you know, that's the

10 purpose of doing it.

11 Q. (BY MS. BARTOSIAK) In Exhibit No. 2, you had

12 correspondence from Mr. Fahrenkrog asking you two

13 questions.

14 The first question was:

15 "Were any of the strains of e-coli bacteria

16 found to be present in the mom's urine during the

17 period, the same e-coli bacteria which eventually

18 infected Randall Parker?"

19 Did you provide Mr. Fahrenkrog a response to

20 his question?

21 A. I do not recall if I -- I do not recall doing

22 so.

23 Q. Okay. Do you have an opinion?

24 A. Yes, ma'am.

25 I have mentioned to you in the deposition that

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1 I do believe that the e-coli that was isolated from the

2 mother is very likely the same one that was isolated

3 from him based on the susceptibility pattern.

4 Q. And you believe that to a reasonable degree of

5 medical certainty?

6 A. Yes, ma'am.

7 Q. The second question is:

8 "What is your opinion as to whether the

9 prescribed antibiotics temporarily suppressed the e-coli

10 bacteria so that the clinical onset of the e-coli

11 meningitis did not manifest until January 10 or 11?"

12 Did you provide Mr. Fahrenkrog with your

13 opinion?

14 MR. FAHRENKROG: It should be February

15 10th.

16 MS. BARTOSIAK: Oh, is it?

17 Q. (BY MS. BARTOSIAK) And it should be February.

18 Apparently it's a "typo."

19 A. Okay. No, I do not recall providing him with

20 that specific answer.

21 Q. Okay. And do you have an opinion?

22 A. Yes, I do.

23 Q. What is your opinion?

24 A. My opinion is that the antibiotics that he

25 received during his January 31st to February 3rd

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1 admission were enough to suppress his infection.

2 Enough that he did not manifest with meningitis

3 until his admission later on that month.

4 And I clarified that, because I am not saying

5 that the antibiotics suppressed the meningitis, itself;

6 I am saying that it suppressed the infection due to the

7 e-coli.

8 Q. Mr. Fahrenkrog sent you a long letter on July

9 6th 2000, which is part of Exhibit 2, laying out what

10 his version of what occurred in this case is.

11 Did you rely, in any way, on Mr. Fahrenkrog's

12 version as he has outlined in that letter?

13 A. I do recall reading it and using it as a

14 guideline for my review so that I could at least focus

15 on what some of the issues were.

16 I don't feel like I used it at all to base my

17 opinion on in this case.

18 In fact, you were asking me earlier how did I

19 know that the hearing deficit was so severe.

20 And although, Mr. Fahrenkrog, in his letter,

21 indicates that it was, indeed, I don't have any evidence

22 from the medical records, themselves, to make that or

23 draw that kind of conclusion.

24 Q. All right. In your experience treating

25 neonates, have you ever had an infant who had negative

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1 blood cultures and CFS, and then, later developed
2 meningitis?

3 A. Yes, ma'am.

4 Q. And how often has that occurred?

5 A. The literature reports that approximately 10%
6 of the cases of meningitis will have negative cultures,
7 negative blood cultures -- I am sorry -- at the time of
8 the presentation.

9 Q. How about negative CSF?

10 A. (No answer).

11 Q. Are you saying that 10% also would have
12 negative CSF, or, is it only the blood cultures?

13 A. No.

14 I am talking exclusively about the blood
15 cultures there.

16 Q. Okay.

17 A. The CFS being positive is the hallmark of
18 meningitis.

19 Q. Okay.

20 A. Now, there may have been times when the CSF may
21 have been negative. For example, in a baby that has
22 received antibiotics prior to the time when the puncture
23 is done.

24 And, in those cases we have to call it or tend
25 to call it partially treated meningitis.

1 had a negative CFS and negative blood cultures, and
2 then, within a few weeks developed meningitis?

3 A. It's possible that I have treated such a
4 patient.

5 I honestly don't have, you know, a specific
6 recollection of that happening, but it's certainly a
7 possibility.

8 MR. SPATARO: Would this be a good place to
9 take a quick break?

10 MS. BARTOSIAK: Sure.

11 (Break had).

12 Q. (BY MS. BARTOSIAK) Doctor, do you believe that
13 that cephalhematoma was walled off?

14 A. In the sense that it was confined to an area, I
15 guess it's a difficult answer. It's a yes and a no.

16 I mean there was a confinement, but it
17 obviously had enough time or connection to spread to the
18 meninges.

19 I mean, the cephalhematoma was actually on the
20 outside of the skull. The meninges are on the inside
21 part of the skull.

22 So, there had to be some form of communication
23 for the bacteria to reach that space. So, there was
24 some degree of confinement, but not 100%.

25 Q. Okay. Can you tell me where, before the

1 But, I was answering specifically just to blood
2 cultures in the presence of meningitis in the newborn.

3 Q. Okay. When I asked you the question, my
4 question was: Have you ever had an infant that you have
5 treated where the blood cultures and the CSF have been
6 negative and the infant eventually developed meningitis?

7 A. And if you are asking me at any time if the
8 blood in the CFS cultures were negative, and then,
9 eventually developed meningitis?

10 Q. I don't mean like years down the road.

11 I mean the infant came into the hospital; you
12 tested the infant through blood cultures and CSF and
13 they were negative.

14 And then, you know, within a time frame of say

15 MR. FAHRENKROG: Weeks, like we did before.

16 MS. BARTOSIAK: Yes.

17 Q. (BY MS. BARTOSIAK) And in a couple of weeks,
18 the infant developed meningitis?

19 A. Sure.

20 It is a possibility, and it can happen.

21 Q. I understand it's a possibility.

22 I am asking you has it ever happened to you as
23 a physician?

24 Have you ever had an infant that you treated

1 cephalhematoma in your opinion, somehow communicated to
2 the meninges where it was confined to, where was this
3 area of confinement that you were describing?

4 A. I would not be able to tell you exactly.

5 I mean it was confined to the place where the
6 cephalhematoma was located, which was in the parietal
7 occipital area.

8 Q. Okay. Can you get any more specific than that?

9 A. No, ma'am, I can't.

10 Q. Can you explain to me how the antibiotics would
11 have gotten to this confined area in order to have, in
12 your opinion, prevented the eventual development of
13 meningitis?

14 A. Well, in this case, it wasn't prevented; it was
15 slowing down or partially treating or partially covering
16 the development of meningitis in this specific case.

17 And that's my testimony is that the antibiotics
18 were able to delay, but not completely eliminate the
19 development of meningitis.

20 Q. And what about what did the antibiotics do to
21 delay the development of meningitis, suppress symptoms?
22 What is it that the --

23 A. Well, no.

24 They actually killed a number of this bacteria
25 to where the infection became low grade within that

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1 cephalhematoma.

2 These were good antibiotics. These were

3 antibiotics that were appropriate for this bacteria.

4 It was enough to kill probably a large burden

5 of them.

6 Q. How did the antibiotic get to the

7 cephalhematoma?

8 A. Well, there is a number of ways.

9 First, remember the cephalhematoma means that

10 there is blood in it.

11 So, the blood that had come and filled that

12 space might have contained antibiotics. It certainly

13 contained antibodies and other parts of the immune

14 system.

15 In addition, antibiotics will diffuse into the

16 this hematoma.

17 Now, the concentrations may not be ideal, and

18 they probably were not enough to kill all of them.

19 I mean, in fact, that's what I am saying, that

20 it wasn't enough antibiotics to kill all of the

21 bacteria.

22 But, there was enough concentration of

23 antibiotic there to suppress the infection for a period

24 of time.

25 Q. You said that the cephalhematoma may have had

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1 blood in it that may have contained some of the

2 antibiotics given during the first admission?

3 A. Yes, ma'am.

4 Q. Okay.

5 A. It was possible that there was still some

6 amount of blood getting into the cephalhematoma.

7 You know, we cannot determine if he was still

8 bleeding into the hematoma or not.

9 Q. If blood is getting into the cephalhematoma,

10 isn't blood getting out of the cephalhematoma, also?

11 A. Not necessarily.

12 The blood usually flows based on pressures.

13 If the pressure of the blood outside of the

14 hematoma was greater, it would go into the hematoma, and

15 not necessarily seeing blood coming out of it.

16 Q. Well, if the blood was just going into the

17 hematoma, and no blood is coming out of the hematoma,

18 wouldn't you expect the cephalhematoma to just get

19 bigger and bigger?

20 A. It is possible it could get bigger and bigger.

1 However, you have to understand that there is

2 another process inside that hematoma; there is action of

3 enzymes, there is proteolytic process; there is

4 destruction of red cells; there is consumption of those

5 red cells that have already been a part of that

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1 hematoma.

2 So, that it starts decreasing.

3 Not only that. You also have some absorption,

4 not necessarily of blood, but you can have absorption of

5 other fluids that are being absorbed from that hematoma

6 into the bloodstream and the rest of the circulation.

7 Q. Well, if some of those processes are being

8 absorbed from the hematoma into the bloodstream,

9 wouldn't you expect the blood cultures to be positive?

10 A. It is possible.

11 Remember, he had received antibiotics, and

12 those antibiotics could have been enough to suppress it

13 in the bloodstream.

14 But, yes, it is possible that the bacteria

15 could have gained access from the hematoma to the

16 bloodstream, and then, from the bloodstream to the

17 meninges. It's certainly a possibility.

18 Q. If the antibiotics, in your opinion, would have

19 merely suppressed the infection, how do you have the

20 opinion that the continued course of antibiotics for the

21 ten to fourteen days would have had any effect on

22 preventing the infection from developing in the

23 meningitis?

24 A. It has to do with duration of treatment.

25 Three to five days of an antibiotic is not

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1 enough to kill all of the bacteria within a hematoma or

2 within an abscess.

3 But, if you give an antibiotic for a longer

4 duration of time, you are going to give enough time for

5 that antibiotic to diffuse all the way into the core or

6 the center of the abscess or the hematoma, and then,

7 kill all of the bacteria.

8 So, it is basically a duration of treatment

9 rather than an efficacy of the antibiotic is how long

10 you expose that bacteria to the antibiotic.

11 Specifically, in this case, Ampicillin and

12 Cefotaxime are antibiotics that don't have a post

13 antibiotic effect.

14 By that, I mean there are some antibiotics --

15 not this one, but some other antibiotics -- that once

16 you give them, even if they have come down on their

17 levels, they continue to kill the bacteria.

18 That is not the case with Ampicillin and

19 Cefotaxime.

20 Once these antibiotics were stopped, the effect

21 of the antibiotics disappear within a matter of hours.

22 And so, not all of the bacteria were killed.

23 My position is if this child had received

24 antibiotics for ten to fourteen days, more likely than

25 not, all of the bacteria would have been killed.

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1 And it is unlikely that meningitis would have
2 developed.

3 Q. And during that ten to fourteen days, how would
4 the antibiotics have gotten to the cephalohematoma?

5 A. Mostly by diffusion from the bloodstream into
6 the hematoma.

7 Q. And again, is it your theory that during that
8 ten to fourteen days, blood would be going into the
9 cephalohematoma with the antibiotics, but blood would not
10 be coming out?

11 A. No, not necessarily.

12 You are talking specifically about blood, and I
13 am thinking, you know, red blood cells. And it is the
14 other components of blood that will still diffuse for
15 both in and out. It is the serum. It's the fluid, the
16 extra set of fluid, that makes part of blood.

17 Now, not necessarily the red cells, but the
18 fluid, the serum, will be diffusing and allowing for the
19 antibiotic to go in, and allowing for some of the
20 products that are being made in this hematoma to be
21 diffused back into the circulation.

22 Q. All right. If the cephalohematoma, in your
23 opinion, is an area of confinement during the first
24 admission, how would a second lumbar puncture have any
25 type of positive result?

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1 A. Well -- and I think that's why I wanted to
2 clarify.

3 Even though there was some containment, I do
4 believe that the second lumbar puncture would have
5 indicated that there was now a spread occurring into the
6 meninges.

7 Remember, I have said that the symptoms that
8 the child had at that time were not explained by a
9 simple cephalohematoma.

10 I do believe there was a component of extension
11 or, what we call a parameningeal fossa that, more likely
12 than not, had progressed in that time.

13 And that's why I believe that the spinal tap,
14 even though the cultures may have been negative or very
15 likely would have been negative, they have shown some
16 indication of inflammation occurring around or close to
17 the meninges.

18 Q. If the cephalohematoma is, as you said,
19 allowing fluid to come in and out of it, then, why
20 wouldn't the first lumbar puncture have shown this
21 inflammation?

22 A. Because the hematoma, this fluid that is coming
23 in and out, is not coming from the spinal fluid; it is
24 fluid coming from the serum.

25 So, they are completely independent at this

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1 point.

2 Q. Okay. If they are completely independent at
3 that point, how is it that something gets into the
4 spinal fluid to demonstrate this inflammation during the
5 second puncture?

6 A. Because you have inflammatory mediators that
7 are responsible for that inflammation.

8 It is not the infection, itself, sometimes; it
9 may be the inflammatory response.

10 If I put pressure in your thumbnail for several
11 minutes, I will eventually cause a release of certain
12 chemical products in your body that will create
13 migration of white cells or other fighting cells into
14 that site.

15 And in the same way, if you have something, an
16 infection or infectious process close enough to the
17 meninges, eventually you are going to see some
18 manifestation of that inflammation in your cerebral
19 spinal fluid.

20 It's not infection directly; it is the
21 inflammatory process that is occurring.

22 Q. If, in your opinion, the child had an infection
23 before the discharge from St. Louis Children's Hospital,
24 which you believe was manifesting itself in the symptoms
25 that you described earlier, would you have expected

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1 those symptoms to just continue to get worse until the
2 second admission?

3 A. Not necessarily.

4 We already have mentioned that there was enough
5 suppression of the bacteria that those symptoms may not
6 have progressed for several days before they became
7 overtly manifest on the second admission.

8 Q. And you say they may not have progressed, but
9 you would still expect the symptoms to be there
10 in-between the first and the second admission, right?

11 A. At least some of them, yes.

12 Q. Which ones?

13 A. I wouldn't be able to specifically point to
14 one.

15 I mean, I would expect that some of the
16 symptoms that we have been discussing, these six or
17 seven symptoms that we have mentioned, would still be
18 present.

19 Q. Those would still be present between the first
20 and the second admission?

21 A. That is correct.

22 Q. And would you expect them to be present
23 constantly?

24 A. No, not necessarily.

25 The inflammatory process may have a

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1 wax-and-wane course.
 2 So, just like we saw in the case of his fever,
 3 where his fever disappeared prior to his discharge, and
 4 then, reappeared, it is possible and actually probable
 5 that his other symptoms may have a similar pattern.
 6 The inflammatory response to an infection or
 7 any kind of trauma typically has a wax-and-wane course.
 8 MS. BARTOSIAK: I am going to go ahead and
 9 pass off to someone else and give me a chance to look at
 10 everything.
 11 Thank you.
 12 THE WITNESS: Thank you.
 13 EXAMINATION
 14 Q. (BY MR. SPATARO) Doctor, I am Peter Spataro.
 15 I represent Washington University in this case,
 16 with some follow-up questions for you on your testimony.
 17 A. Yes, sir.
 18 Q. If I understand from your earlier testimony,
 19 you believe that it was around the 11th of February
 20 secondary signs of fever and irritability, that the
 21 e-coli broke out of the cephalhematoma and spread to the
 22 meninges, is that right?
 23 A. Yes.
 24 I guess that probably a better way to describe
 25 it is around that day is that the meningitis became
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1 evident.
 2 And that at that time, the meningitis had fully
 3 set in or the bacteria had fully caused a full
 4 meningitis.
 5 Q. Well, I have it in my notes that on the 11th,
 6 it broke out of the cephalhematoma.
 7 Do you believe that the agent, the e-coli
 8 agent, broke out of the cephalhematoma around the 11th,
 9 and at that time, spread to the meninges?
 10 A. If I used that expression, I apologize. I
 11 don't mean to indicate that it broke out.
 12 I believe that my testimony is that the 11th
 13 the meningitis had fully developed.
 14 What the exact time is in which the bacteria
 15 actually gained access to the meninges, I am not able to
 16 determine.
 17 Q. Well, how long could one have meninges subject
 18 to an e-coli bacteria without causing overt symptoms of
 19 fever and irritability?
 20 A. I don't know.
 21 There is a number of different factors. It
 22 depends on what the immune status of the host is; it
 23 depends on the number of bacteria that have gained
 24 access; how virulent that specific strain of bacteria
 25 is; how good the immune response of the host is.
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1 So, there is a number of variables that may
 2 play into what the answer is to your question.
 3 But, in general terms, it's typically a matter
 4 of hours from the time that the bacteria reaches the
 5 meninges to when it starts manifesting.
 6 And by that, I mean, you know, anywhere from 12
 7 to maybe 24, 36 hours will be a good estimate in
 8 general.
 9 Q. Okay. And in fact, they have done studies,
 10 have they not, on e-coli bacteria, and that is a
 11 particularly virulent bacteria that attacks and causes
 12 symptoms very quickly in the meninges; doesn't it?
 13 A. You are correct.
 14 Q. Okay. You had mentioned a number of -- we'll
 15 call them signs or symptoms that were present in the
 16 first admission.
 17 Increased tone.
 18 Did the child exhibit increased tone?
 19 A. Increased axial tone.
 20 Q. Okay. What is that?
 21 A. (No answer).
 22 Q. Increased axial tone or decreased axial tone,
 23 or, do you remember?
 24 MR. FAHRENKROG: Increased tone in the legs
 25 and decreased axial tone.
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1 THE WITNESS: It's a -- The actual axial
 2 tone was markedly decreased and an amount of increase in
 3 the arms.
 4 Q. (BY MR. SPATARO) What is axial tone?
 5 A. It's the muscle tone of the axis of the body.
 6 Q. And is your ability to exhibit axial tone
 7 neurologically in the central nervous system?
 8 A. Yes.
 9 Q. Okay. Does it originate in the brain?
 10 A. That is my understanding.
 11 Q. Okay. Where, in the brain, would a defect be
 12 to cause the body to exhibit decreased axial tone, if
 13 you know?
 14 A. I don't know.
 15 Q. Would there, at this moment in time, have to be
 16 some abnormality of the brain in that area, wherever it
 17 is, to cause decreased axial tone?
 18 A. Yes.
 19 There is something going on in the brain that
 20 will cause the increase in axial tone.
 21 Q. What is going on in the brain? Or, do you not
 22 have an opinion on that, not being a neurologist?
 23 A. I do not have an opinion.
 24 Q. So, whether it has something to do with this
 25 bacteria that is inside the cephalhematoma, or some
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1 other mechanism unrelated, you would not know?
 2 A. That is correct.
 3 Q. How about the extreme extensor neck tone, would
 4 you have the same opinion about that?
 5 A. My opinion, well, an increased extensor neck
 6 tone may be due to a number of reasons.
 7 Some of them have to do with the central
 8 nervous system; some of them may not.
 9 Q. Okay. If the cause of the extreme extensor
 10 neck tone in this child is due to a central nervous
 11 system dysfunction, is that beyond your expertise to
 12 tell me today what that might have been in this
 13 particular case?
 14 A. I will be able to tell you that one of the
 15 sites is a -- Or one of the possible sources of this
 16 increased tone is an infection in the parameningeal or a
 17 parameningeal fossa.
 18 But, as to other sites that may be involved,
 19 and be responsible for this increased extensor neck, no,
 20 I do not.
 21 Q. And we don't know, today, what the extreme
 22 extensor neck tone was caused by in this child; would
 23 that be fair?
 24 MR. FAHRENKROG: Objection to the form.
 25 The term "we." Who?
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1 MS. BARTOSIAK: "We," you.
 2 THE WITNESS: No. I believe it was due to
 3 this parameningeal fossa that I have been referring to.
 4 That, in my opinion, is the reason why this
 5 child had the increased tone.
 6 Q. (BY MR. SPATARO) You said parameningeal.
 7 What does parameningeal mean?
 8 A. It just means close by.
 9 Q. He doesn't have meningitis right now at this
 10 point?
 11 A. That is correct.
 12 Q. But, he has got something close by the
 13 meninges?
 14 A. That is correct.
 15 Q. What does he have close by the meninges?
 16 A. Well, in this case, I believe infected
 17 cephalhematoma.
 18 Q. So, he has a cephalhematoma, and inside the
 19 cephalhematoma, there are e-coli bacteria?
 20 A. That is correct.
 21 Q. You say it is infected, correct?
 22 A. That's correct.
 23 Q. What does infected mean?
 24 A. It means that there is an organism that doesn't
 25 belong there, and that it is replicating and producing
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1 an inflammatory response.
 2 Q. What is the difference between it being
 3 colonized and it being infected?
 4 A. Well, a colonized site just indicates that the
 5 bacteria is there, and it is not eliciting an
 6 inflammatory response from the host.
 7 Q. Okay. What is an inflammatory response?
 8 A. Well, an inflammatory response is the
 9 production and recruitment of cells in other blood
 10 components, generally known as cytokines, that have the
 11 ability to fight the infection.
 12 By that, I also include antibiotic and
 13 complements.
 14 There is a number of components of an
 15 inflammatory reaction.
 16 It's a cascade of events whose purpose is to
 17 stop or decrease the inflammatory process.
 18 Q. Okay. And how would we know -- How would you
 19 know that there is a colonization of this cephalhematoma
 20 versus an infection of the cephalhematoma?
 21 A. Because a cephalhematoma that is only colonized
 22 would not have shown any clinical symptoms.
 23 Because we don't have an inflammatory response,
 24 you don't have the presence of fever. You don't have
 25 the presence of irritability.
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1 You and I and everybody in this room is
 2 colonized with normal bacteria in our skin, in our gut.
 3 We don't know about it because it is not causing any
 4 problems.
 5 But, if our flora in the skin was to cause,
 6 now, an infection, we would know because it would
 7 manifest from as simple as a pimple to a full area of
 8 cellulite or an abscess.
 9 Q. Have you treated children with cephalhematomas,
 10 infants?
 11 A. Yes, I have.
 12 Q. Okay. I take it that the great majority of
 13 those are not infected?
 14 A. Absolutely.
 15 Q. Of those children with non infectious
 16 cephalhematomas, do you notice any of them that are
 17 irritable secondary to the presence of a cephalhematoma?
 18 A. Well, fortunately at that age, it is hard to
 19 know what the source of the irritability is, but
 20 certainly it is a possibility.
 21 Q. And it's a possibility, because the
 22 cephalhematoma, being a mass on the head of the child,
 23 is uncomfortable and makes them irritable?
 24 A. They, very likely, have a headache.
 25 Q. Okay. And that would be a very common
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1 association, if a child has a cephalhematoma to the
 2 degree described in these records, and the child was
 3 irritable, one would associate -- or, it would not be
 4 unreasonable to put those two together?
 5 A. Just those two together by themselves, yes.
 6 Q. Fever?
 7 A. Yes.
 8 Q. Was the child jaundiced at all upon admission?
 9 A. Yes, he was very jaundiced.
 10 Q. Okay. Well, does jaundice and fever have any
 11 relationship?
 12 A. Not a direct relationship.
 13 Jaundice is one of the manifestations of
 14 infection or sepsis.
 15 And fever can be a manifestation of infection
 16 and sepsis.
 17 So, in that sense, if you see a child who is
 18 jaundiced and has a fever, then, you need to consider
 19 infection in your differential diagnosis.
 20 But, being that jaundice will cause fever by
 21 itself, no, there is no such association that I am aware
 22 of.
 23 Q. Well, do you know of any condition that would
 24 cause fever other than infection?
 25 A. Sure.
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1 It's possible that you can see fever from other
 2 inflammatory reasons that are not infectious in nature.
 3 A typical example is patients who have leukemia
 4 or patients who have lupus, disorders where your immune
 5 system is altered, may lead to development of fever
 6 without having an infection.
 7 Q. If you were to give me a differential in this
 8 case of all the possibilities, in your opinion, as to
 9 why the child presented with a fever upon admission,
 10 what would those be?
 11 MR. FAHRENKROG: Just fever now, not any of
 12 the other symptoms, correct?
 13 MR. SPATARO: Right.
 14 THE WITNESS: Fever upon admission, on the
 15 first admission?
 16 Q. (BY MR. SPATARO) Right.
 17 Q. The first admission January 31st.
 18 A. Well, as you mentioned, infection would be the
 19 top consideration.
 20 Other causes of fever in the newborn include
 21 hormonal disorders, like hyperthyroidism.
 22 If you have a lot of high thyroid hormone, you
 23 can have fever with it.
 24 Abnormalities in sweating if the baby is not
 25 capable of sweating, he or she may have a fever.
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1 Autoimmune inflammatory diseases.
 2 Like I mentioned before, lupus and other
 3 connective tissue diseases may present with fever
 4 without being an infection.
 5 We certainly see instances where the fever or
 6 the elevated temperatures is a result of over bundling
 7 or exposure to an environment that is hotter than the
 8 room temperature.
 9 Q. But, in your opinion, if the child was
 10 jaundiced that would not be an explanation?
 11 A. I am not aware of jaundice explaining fever by
 12 itself.
 13 Q. Okay. What do you think was the cause of
 14 jaundice?
 15 A. It was probably a combination of factors.
 16 It's not unusual for a newborn child to develop
 17 physiologic jaundice.
 18 This is a jaundice that occurs as a result of
 19 the immaturity of the liver, and it's expected in the
 20 majority of newborns.
 21 Secondly, this child had a large
 22 cephalhematoma.
 23 The destruction or the processing of the blood
 24 that was already in the hematoma, increases the level of
 25 bilirubin.
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1 And frankly, I think that's the main reason why
 2 this bilirubin was so high.
 3 And then, thirdly, it is possible infection may
 4 have contributed to his bilirubin level, hyper
 5 bilirubin, elevated bilirubin level.
 6 Q. The child came in irritable, correct?
 7 A. That's correct.
 8 Q. He came in with jaundice?
 9 A. That's correct.
 10 Q. Did he come in with fever?
 11 A. Yes, he did.
 12 Q. Did he leave with any of those three conditions
 13 on the 3rd of February?
 14 A. The fever had resolved. The jaundice had
 15 improved significantly with his bilirubin coming down.
 16 But, his irritability was still an issue in my
 17 interpretation of the records.
 18 Q. What about his condition on the day of
 19 discharge; did he continue to show irritability?
 20 A. A note dated 2-2 of '99, by Dr. Ann Conley,
 21 states that:
 22 "The patient continues to be irritable."
 23 Q. How was his feeding on the 3rd?
 24 A. The notes reflect he was eating well.
 25 Q. Did Dr. Gitlin make a remark on the 2nd that he
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1 was "showing improvement in irritability?"

2 A. Yes, he does.

3 He indicates that on a note on the 2nd.

4 Q. Okay. You said you have drained or had drained
5 at someone's direction six to seven cephalhematomas in
6 your career?

7 A. I have estimated probably that, six or seven
8 patients.

9 Q. Do you remember any of those specifically?

10 A. No, sir.

11 Q. Do you know what the cephalhematomas looked
12 like at the time you made the recommendation to have
13 them drained?

14 A. No, I do not recall the indications or what
15 they looked like.

16 They were probably drained as part of our
17 evaluation for the possibility of infection.

18 In fact, the most common indication that I can
19 think of is to look for the possibility of infection of
20 the bone, itself, what we call an osteomyelitis of the
21 skull.

22 Q. Was that ever demonstrated in this case?

23 A. No, it was not.

24 Q. Was it ever demonstrated that the
25 cephalhematoma got larger during the time of the
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1 hospitalization?

2 A. Not to my knowledge.

3 Q. Did it ever have any record indicating that it
4 was fluctuant or inflamed?

5 A. Not to my knowledge.

6 Q. Did it have any look about it, via the record,
7 suggesting it was infected?

8 A. In terms of appearance, no.

9 In terms of clinical course, yes.

10 Q. Isn't it true that almost every reputable
11 pediatric text says incising or aspirating
12 cephalhematomas is contraindicated because of the risk
13 of introducing infection?

14 A. I don't know if every major textbook has that.
15 But, I am not surprised if you find it in a reputable
16 textbook.

17 I agree that is, indeed, one of the risks.

18 Q. Well, not only a risk, but it is
19 contraindicated.

20 And that means that you shouldn't do it, right?

21 A. Well, if that is what this particular text that
22 you are reading indicates, that is what their opinion
23 is.

24 Q. Well, you are familiar with the Fanneroff text?

25 A. I am familiar with that text.

1 Q. It's one of the standard textbooks in
2 pediatrics?

3 A. It's one of the reliable textbooks, yes.

4 Q. Would you agree with it when it says:
5 "Incision or aspiration of the cephalhematoma
6 is contraindicated because of the risk of introducing
7 infection?"

8 A. I would agree that that's what the paper said,
9 if you are quoting it correctly to me.

10 Q. How about the Nelson's text; is that another
11 standard text?

12 A. Nelson is another standard text.

13 Q. Are you familiar with their recommendation in
14 Nelson's, that incision and drainage are contraindicated
15 because of the risk of introducing infection in a benign
16 condition?

17 A. I would not be surprised if that's what it
18 states.

19 Q. Okay. And are you familiar with the Volpe text?

20 A. Yes, I am.

21 Q. Do you agree with Dr. Volpe's comment that:
22 "Cephalhematoma is rarely of clinical
23 significance from a neurological standpoint unless a
24 complicating intercranial lesion is present?"

25 A. I agree with that.

1 Q. Did you see one with an infected cephalhematoma
2 and meningitis?

3 A. I would not be surprised.

4 If you review the literature, there is maybe
5 five or six cases.

6 Q. It's extremely rare?

7 A. It is, indeed, rare.

8 Q. Okay. Would you agree with the management
9 opinion of Dr. Volpe's text:

10 "No specific therapy is indicated. Evacuation
11 of the lesion is contraindicated."

12 A. If that refers to the management of an
13 uncomplicated cephalhematoma, yes, I agree with that.

14 Q. All right. Well, in this case, we have a
15 cephalhematoma that, by no information in the chart,
16 grew or looked fluctuant or had any indication that it
17 was infected, correct?

18 A. On that first admission?

19 Q. Yes.

20 A. That is correct.

21 By looks, there was no information that it was
22 infected.

23 Q. All right. And we had a situation where the
24 three things the child came in with, irritability,
25 fever, and jaundice, had all disappeared as signs or

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1 symptoms at the time of the child's discharge?

2 A. I would say they had either disappeared or

3 improved.

4 Q. We were left with some neurologic symptoms that

5 could be explained by causes other than an infection?

6 A. Yes.

7 Q. Okay. This child, when born, had a traumatic

8 delivery?

9 A. That is correct.

10 Q. In fact, it had a bleed in the subarachnoid

11 space, correct?

12 A. That's correct.

13 Q. On subsequent admission, it was shown that the

14 child had subdural hematomas in various parts of his

15 brain?

16 A. That is correct.

17 Q. All right. What do you believe those were

18 caused by?

19 A. Well, those were probably related to the

20 delivery.

21 Q. If the child had various areas of subdural

22 hematoma and a bleed in the subarachnoid space, is it

23 not reasonable to assume that the CNS symptoms the child

24 exhibited during the first admission could have had a

25 relationship to the delivery as opposed to an infection

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1 from the cephalhematoma?

2 A. It is a possibility.

3 Q. All right. Now, is the bacteria you say not

4 spreading outside the wall of the cephalhematoma until

5 the 11th?

6 Or, are you saying that some of it is outside

7 the walls of the cephalhematoma?

8 A. I am saying that it's likely that it was

9 confined to the cephalhematoma until close to the 11th

10 of February.

11 Q. Okay. What would cause a change in the

12 findings of a lumbar puncture?

13 A. The inflammatory process is what would cause a

14 change.

15 Q. The inflammatory process of what?

16 A. Let me ask you to clarify a change in the

17 lumbar puncture as to when or...

18 Q. Well, you said a second lumbar tap performed

19 prior to discharge -- which I would assume like the 2nd

20 or 3rd of February?

21 A. He okay.

22 Q. -- you think would have shown a change in the

23 first lumbar puncture?

24 A. Yes, that's correct.

25 Q. All right. What is causing that to be

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1 different?

2 A. The inflammatory process, the infected

3 cephalhematoma, now has had more days to increase the

4 number of cells, to alter the amount of sugar, to alter

5 the amount of protein in the spinal fluid.

6 And it is possible that a repeat lumbar

7 puncture would have shown those abnormalities.

8 Q. Notwithstanding that the bacteria inside the

9 cephalhematoma is confined?

10 A. That is correct.

11 That's what this parameningeal factor is that I

12 keep referring to.

13 It doesn't mean that the infection is in the

14 meninges; the infection is actually localized outside of

15 it.

16 But, you see the reflections, or you see that

17 infection being reflected in the spinal fluid because of

18 the inflammatory process.

19 Q. And is that because of the proximity of the

20 cephalhematoma to the meninges?

21 A. It's not only the proximity, it is the

22 inflammatory process that is happening close by, yes.

23 Q. Well, how is it spreading through the skull

24 bone?

25 A. Well, no. It's the -- it's a number of

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1 factors.

2 Remember, this child had a fissure or fracture

3 at that site that will allow for continuity.

4 Q. Are you sure about that?

5 A. Yes.

6 I am sure there is a report of a fissure or

7 fracture.

8 Q. It says:

9 "Tiny lucency on the lateral skull films which

10 may represent a normal fissure versus a tiny fracture

11 in comparison with head CT was recommended."

12 Do you know if that was done in comparison with

13 the head CT?

14 A. Not on admission.

15 Q. Do you know if any subsequent analysis of any

16 head CT Scans or head skull films ruled out any lucency

17 or skull fracture?

18 A. Not that I recall at this time.

19 Q. What is a normal fissure? What is a fissure?

20 A. The skull of a newborn contains bones that are

21 separated from each other.

22 And as one grows, those bones eventually will

23 attach to each other.

24 The fissure is that space that separates one

25 bone from the other.

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1 Q. So, the bones aren't connected, correct?

2 A. In the newborn, they are not.

3 Q. All right. But, that is not just an opening of
4 the brain; is it?

5 There is some cartilage that covers over that
6 almost immediately at birth; isn't there?

7 A. Yes, in general terms, there is.

8 There is always tissue, I guess is probably --
9 Rather than calling it cartilage, it is tissue that
0 covers that.

1 Q. And that tissue would operate to create a
2 barrier between anything that would seep out of the
3 cephalhematoma and the meninges?

4 A. In an ideal circumstance, yes.

5 But, because this tissue is not bone, you can
6 still have the fusion of the inflammatory components.

7 And you can still see the effect of an
8 infection outside of the skull be manifested as
9 abnormalities of the cerebral spinal fluid.

0 Q. Were there any other x-rays or studies
1 suggesting that the areas surrounding the cephalhematoma
2 was damaged, any bone destruction or anything like that?

3 A. No, there are not.

4 Q. You are saying now that antibiotics, over a
5 period of ten to fourteen days, would be able to

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1 infiltrate in a walled-off hematoma and kill the
2 bacteria within it?

3 A. Yes.

4 Q. All right. Did you read Dr. McGann's
5 deposition?

6 A. I did. Dr. McGann? Let me. (Indicating).

7 The infection, yes, I did.

8 Q. Did you read where she is of the opinion that
9 because of the walled-off area of the cephalhematoma,
0 that it would resist the infiltration of the
1 antibiotics, and plus not kill the bacteria inside of
2 it?

3 A. I did read that.

4 And I disagree with that.

5 Q. You don't think that the -- Well, first of
6 all, a hematoma is a blood clot, correct?

7 A. That is correct.

8 Q. And it has a wall?

9 A. It may form a wall.

0 Q. Well, if it doesn't form a wall, it will
1 continue to grow like a balloon filling with water,
2 wouldn't it?

3 A. No, not necessarily.

4 If the pressure inside reaches a level where it
5 overcomes or is greater than the pressure inside the

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1 blood vessels, you may not have actually further
2 bleeding.

3 If, today, you get hit by a hammer and develop
4 a hematoma, it's going to take time for the hematoma to
5 develop a wall in order to protect.

6 It's other mechanisms that stop the bleeding
7 into the hematoma before the wall develops.

8 Q. Well, how long does it take for a wall to
9 develop in a normal hematoma?

10 A. I do not know.

11 Q. Well, assuming this cephalhematoma occurred on
12 the day of birth, correct?

13 A. That's correct.

14 Q. Okay. And that he was seen five days later at
15 Children's Hospital?

16 A. That's correct.

17 Q. Wouldn't you expect the wall to have formed
18 within five days?

19 A. It is certainly possible.

20 Q. If a wall has formed, it would make the
21 delivery of antibiotics inside that wall more difficult,
22 correct?

23 A. That is correct.

24 Q. All right. At the point of discharge on
25 February 3rd, I guess that you are saying that there was

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1 a parameningeal process of the infection being around
2 there?

3 A. That is correct.

4 Q. Okay. And what kind of symptoms was it
5 manifesting?

6 A. In my opinion, it was manifesting the symptoms
7 that were still present at that time.

8 Q. Which was what?

9 A. The abnormalities in the tone, the downward
10 gaze, the decrease in extensor flexion of the neck.

11 Q. And those could have been caused by central
12 nervous system abnormality from the traumatic birth, as
13 well, correct?

14 A. That's correct.

15 Q. All of those things that you are talking about?

16 A. Yes, sir.

17 Q. Okay. If these symptoms are strong enough to
18 produce or if the parameningeal process is strong enough
19 to produce these symptoms, you are saying these symptoms
20 wouldn't progress?

21 A. What I said is that the symptoms could have a
22 wax-and-wane course.

23 Q. What is a wax-and-wane course?

24 A. It is one hour, they could be more prominent
25 and the next hour, they could be less obvious.

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1 Q. How do you understand the nature of these
2 symptoms progressed from the time of discharge to
3 February 11th?

4 A. Well, unfortunately, I don't have any way of
5 knowing what happened in that time period.

6 I have not seen the deposition of the parents
7 or anybody that saw him during this time period.

8 Q. And would that have been important to you to
9 know?

10 A. If that information is available, yes.

11 Q. What is important about the deposition of the
12 parents or the deposition of any health care provider
13 who saw the child in the interim?

14 A. Well, it would be important to determine what
15 his clinical symptoms were at that time, if there had
16 been progress, if there had been improvement.

17 Q. How would that be important to you one way or
18 the other?

19 A. If this increase in tone or some of the other
20 abnormalities that we have mentioned were still
21 obviously present during this time period, it will
22 further strengthen my theory that this, indeed, was a
23 progression of the same process.

24 Q. And what about the opposite; what if there was
25 no progression of symptoms?

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1 A. Obviously there was an effect in the sense that
2 the fever had disappeared, and obviously had some effect
3 in the sense that the irritability had improved.

4 Q. Absent continued treatment with antibiotics,
5 would you expect irritability to be completely absent
6 for over a week?

7 A. I think in that theoretical setting in a
8 patient who had meningitis, and you had left untreated,
9 not only will the irritability not improve, the child
10 would progress to a very severe involvement and very
11 likely would have died in the absence of antibiotic
12 therapy.

13 Now, what we have in this case is a compounding
14 situation where antibiotics were given for a period of
15 time that was enough to suppress the majority of the
16 bacterial load, but not enough to kill all of those
17 bacteria.

18 Q. How do children become infected with e-coli
19 bacteria?

20 A. In the case of newborns?

21 Q. Right.

22 A. It's usually by one of the routes that we
23 discussed earlier, either by hematogenous spread, by
24 becoming first colonized with the bacteria from the
25 mother's genital tract, or by direct inoculation through

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1 What if to everyone's observation, the child
2 once discharged on February 3rd, didn't have another
3 thing wrong with him until the evening of February 11th
4 when he was readmitted?

5 A. The problem is there were abnormalities. They
6 were reflected in the notes.

7 There was still abnormalities at the time of
8 the discharge.

9 And the only thing that I can do is compare
10 what were the abnormalities at that time to the
11 abnormalities that were present on the second admission.

12 So, I don't have the physical exam from the
13 physician to allow me to determine if those had actually
14 decreased or changed.

15 Q. Would you have expected the child to continue
16 to show signs of irritability and fever?

17 A. Not necessarily.

18 Q. Why not?

19 A. Because the bacterial infection had been
20 suppressed to the point where the fever and the
21 irritability had improved.

22 Q. Okay. But, apparently that wouldn't have had
23 any effect on the parameningeal irritation?

24 A. It may have or may not.

25 Q. All right.

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1 any kind of invasive procedure.

2 Q. Well, about outside settings, how could a
3 neonate be infected with e-coli if it's not from the
4 mother, from outside sources?

5 A. Well, e-coli is a bacteria that normally lives
6 in our GI tract.

7 Fortunately, we are very resistant to it, but
8 if there is any break in the continuity of the GI tract,
9 or a urinary tract infection due to this bacteria, then
10 the bacteria may reach the bloodstream and cause a
11 meningitis.

12 Fortunately, that doesn't happen very often.

13 But, the only group where we do see it with
14 certain frequency is in the newborn.

15 Q. I mean, how do we rule out that he just didn't
16 get an e-coli bacterial infection after he went home on
17 the 3rd, sometime close to the 11th?

18 A. It is a possibility that he became colonized
19 with the e-coli from the mother, and that the infection
20 didn't manifest until around the 10th or 11th of
21 February.

22 It is a possibility. However, it's not
23 probable. It's more likely that what happened was this
24 continuity of events that I have been talking about.

25 Q. I mean, nothing would be unusual time wise that
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1 because of the rapid progression of an e-coli infection,
2 if he was being diagnosed with an e-coli infection on
3 the 11th, that sometime within the day or two prior to
4 that, that he first contracted the bacterial agent in
5 his body somehow?

6 A. If you are asking me if that's a possibility,
7 it certainly can.

8 There is a thing called late onset sepsis in
9 the newborn, in which this is the typical situation.

10 What doesn't make sense is why was the baby
11 febrile; why was the baby irritable on that first
12 admission on the 31st, and then, have a completely
13 unrelated infection seven days later?

14 What makes more sense is that it was a
15 continuity of the same infection.

16 Q. Well, you are assuming, though, of course, he
17 was infected during the first admission.

18 A. I am assuming that the source of the fever was
19 an infection.

20 Q. All right. Can a cephalhematoma produce a
21 fever?

22 A. Not to my knowledge.

23 Q. Could the cephalhematoma infection have been
24 the cause of the meningitis rather than the other way
25 around?

1 in the subarachnoid space and several subdural hematomas
2 diagnosed on subsequent imaging studies during the
3 second admission?

4 A. Yes, we do have those.

5 Q. That explains a lot of the neurologic
6 symptomatology here, does it not?

7 A. It may explain some of the neurologic
8 symptomatology.

9 Q. All right. You said you had an opportunity to
10 read both of the depositions of Dr. Gitlin and Dr.
11 McGann?

12 A. That is correct.

13 Q. How long ago did you read those?

14 A. I reviewed those yesterday.

15 Q. Yesterday. Okay.

16 As you sit here today, is there anything that
17 comes to mind specifically that you disagree with on any
18 testimony offered by Dr. McGann?

19 A. If you will allow me, for a second, to collect
20 my thoughts here. (Indicating).

21 We already talked about one of the
22 disagreements, and that had to do with the ability of
23 antibiotics to get into the hematoma.

24 And I also disagree with the statement that it
25 may take weeks for e-coli to multiply and spread to

1 A. Well, I think that's just what we have
2 established.

3 You asked me if the infected cephalhematoma
4 could have been the cause of the meningitis?

5 Q. No.

6 I want to know the reverse. Could the
7 meningitis have caused the cephalhematoma to become
8 infected?

9 A. I guess it's a possibility.

10 Q. Well, have you read in any standard text that's
11 a complicating factor of the infected cephalhematoma,
12 that is, the onset of meningitis or sepsis then causing
13 the cephalhematoma to become infected?

14 A. Sure, it is a possibility.

15 Q. Okay. How do we know that's not the case? We
16 didn't have a diagnosis of infected cephalhematoma until
17 after the diagnosis of the meningitis, correct?

18 A. Because we don't have an explanation for the
19 first admission where he had the same symptoms, and the
20 symptoms consistent with an infected cephalhematoma is
21 that that's the reason why I believe the sequence of
22 events was the other way around.

23 Q. We have added factors here, though, don't we?

24 A. What do you mean by that?

25 Q. I mean a traumatic delivery manifested by blood

1 other parts of the body.

2 You and I have already talked about how this
3 bacteria, once it sets into the meninges, tends to be a
4 rapid and aggressive bacteria.

5 Those are the two points that I would disagree
6 with.

7 Q. Let me ask you this: Is the, as you say,
8 spread of this infectious process to the parameningeal
9 area - is that virulent enough to cause damage to the
10 brain?

11 A. Is a parameningeal infection capable of causing
12 damage to the brain?

13 Q. Yes.

14 A. Without direct extension?

15 No, it is not.

16 Q. Where would I read about this parameningeal
17 inflammatory process?

18 A. Certainly there are several articles that have
19 dealt with that.

20 But, you probably could read it in a good
21 neurology or neurosurgery textbook.

22 Q. Would that also tell me it's impossible to
23 cause any permanent brain injury in a parameningeal
24 process?

25 A. I don't know if it would tell you that

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1 specifically or not.

2 I can think of, for example, a textbook you
3 have already mentioned, the Volpe textbook.

4 I mean, we had a discussion on parameningeal
5 infections. There are certainly articles written about
6 that.

7 And whether an infection in the parameningeal
8 abscess can cause brain damage, I don't believe it's
9 been addressed in any books that I can recall.

10 Q. Hypothetically, though, you believe these
11 neurologic abnormalities were caused by this
12 parameningeal process?

13 A. Well, I believe that is a feasible explanation.

14 Q. So, the decreased axial tone, the neck
15 rigidity, the downward gaze?

16 A. That is correct.

17 Q. Well, if this parameningeal process is capable
18 of doing all of those bad things in the brain, could it
19 affect the hearing of the brain?

20 A. I am not aware of any studies suggesting that a
21 parameningeal abscess will cause enough of an
22 inflammatory response to lead to hearing impairment.

23 Q. Do you know one way or the other?

24 A. Yes, I do.

25 I mean, there is no studies that have shown

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1 that.

2 Q. And I could find studies that would tell me
3 that a parameningeal process could cause all of these
4 types of abnormalities that this child was exhibiting on
5 February 2nd?

6 A. Yes, sir.

7 MR. SPATARO: To speed up, Doctor, I will
8 let someone else.

9 EXAMINATION

10 Q. (BY MR. WEINGART) Doctor, my name is Bruce
11 Weingart. I represent Dr. Grechus.

12 You are not here to express any opinions about
13 the OB care rendered in this case?

14 A. That's correct.

15 Q. That's something that is outside your area of
16 expertise?

17 A. Yes, it is.

18 Q. What is a nosocomial transmission?

19 A. Nosocomial transmission means that a bacteria
20 or virus, an infectious agent, has been transmitted
21 within the hospital setting.

22 Q. Okay. And what is a vertical transmission?

23 A. Vertical transmission is the transmission that
24 occurs from a mother to a child.

25 Q. Okay. And that occurs in utero or is that after

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1 the baby is born or either?

2 A. It can happen at either point.

3 Most commonly, for most bacteria, it happens
4 around the peripartum period. In other words, in the
5 hours before or after the delivery.

6 Q. Can vertical transmission take and what --

7 Strike that. Let me get my thoughts together here.

8 Vertical transmission, though, my understanding
9 of it is that could occur after the mother and the baby
10 have gone home?

11 A. Absolutely.

12 Q. So, you could have transmission of e-coli
13 bacteria from the mother to the baby in the home
14 setting?

15 A. Yes.

16 Q. For instance, e-coli is a common GI tract
17 bacteria, correct?

18 A. That's correct.

19 Q. And the mother, for instance, if she had used
20 the restroom and did not properly wash her hands, she
21 could then transmit e-coli bacteria to the infant?

22 A. That is correct.

23 However, at that point, it would be more
24 appropriate to call it horizontal transmission,
25 transmission from one to the other.

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1 Q. So, that would be a horizontal transmission?

2 A. That is correct.

3 Q. But, that is a common transmission of e-coli
4 bacteria, horizontally?

5 A. Absolutely, yes, sir.

6 Q. And that could happen in that scenario or, at
7 least, that's one of the possible ways that horizontal
8 transmission could take place?

9 A. That's correct.

10 Q. Are there other ways that horizontal
11 transmission of e-coli bacteria can take place?

12 A. Yes.

13 And I had mentioned earlier that vertical
14 transmission is the one that occurs usually at the time
15 of the passage through the birth canal or shortly before
16 or after.

17 Horizontal transmission in the household may be
18 the result of breast feeding, normal caring of a child.
19 You know, the changing of diapers, the handling of
20 pacifiers, the normal kissing and hugging that happens
21 when you have a new baby at home.

22 Q. And in your opinion, the strain of e-coli that
23 the child had in this case was the same as the strain
24 the mother had from the urinary tract infections?

25 A. I think that there is a high likelihood that

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1 that was the case based on the susceptibility pattern.
2 Q. And by "susceptibility pattern," you are
3 talking about the culture results, and it tells you what
4 drugs this particular strain of bacteria is resistant
5 or not resistant to?

6 A. That is correct.

7 Q. And you have looked at the mother's cultures, I
8 take it?

9 A. That is correct.

10 Q. And which culture result was that?

11 A. Give me a second and I will find it.

12 (Indicating).

13 In the records that I have located, it is in
14 the records from his office, a culture obtained at that
15 time.

16 And unfortunately I am having trouble locating
17 that specific record, but if you want...

18 Q. At what time?

19 A. The culture was obtained at the time that she
20 presented on the day that she eventually delivered a
21 baby.

22 Q. Doctor, I meant to ask you a minute ago.

23 You can't rule out horizontal transmission in
24 this case, can you?

25 A. No, you cannot rule it out.

1 Q. I am sorry?

2 A. You can't completely rule it out.
3 It's a possibility.

4 Q. It's a possibility that that could have
5 occurred?

6 A. That is correct.

7 It's a possibility just like it was a
8 possibility that this was a late onset sepsis.

9 However, if it has stress, it does make more
10 sense that this was a continuation of the same process.

11 Q. Doctor, let me give you a hypothetical scenario
12 and I want you to tell me if this is a possibility for
13 what could have occurred here.

14 That this child did not, in fact, have any
15 e-coli bacteria in his system during the first
16 admission.

17 That after the discharge on February 3, 1999,
18 that sometime between that date and the second
19 admission, that the mother horizontally transmitted the
20 e-coli bacteria to Randall.

21 So, is that a possibility of what occurred
22 here?

23 A. It is some incredibly low possibility.

24 If we were to categorize the different
25 possibilities or probabilities, again, I have stressed

1 in my opinion, it was a progression of the bacteria
2 being acquired shortly after the delivery or -- in the
3 perinatal period. I am sorry. And then, progressing to
4 the picture that we have later.

5 Q. Why is it an incredible possibility?

6 A. Because horizontal transmission of e-coli does
7 not seem to be a major player in the late onset of
8 sepsis.

9 And please understand that I am referring to
10 that if we were to assume that this infection did not
11 start until after the 7th day of life, that would fall
12 into the late onset category.

13 I still think that a more appropriate
14 possibility is that there was, indeed, vertical
15 transmission, but that it had not become apparent.

16 Q. But, you can't rule out this possibility of
17 horizontal transmission occurring after the first
18 admission?

19 A. That is correct, I cannot.

20 Q. And that would also explain, would it not,
21 horizontal transmission from mother to child, the
22 similarity of the strains, as you have testified to?

23 A. It certainly would.

24 Q. And wouldn't that also be an explanation that
25 would be consistent with the fact that the blood

1 cultures were negative and that the LP culture was
2 negative?

3 A. That would be consistent with that explanation,
4 yes.

5 I have located the culture that you had
6 requested.

7 It is dated 1-28 of '99 at 1435. And this is a
8 culture that grew an e-coli with the same susceptibility
9 pattern.

10 Q. And so we are clear, my hypothetical I just
11 gave you of no colonization or no e-coli bacteria in the
12 child during the first admission, horizontal
13 transmission, some time after the first admission, but
14 before the second admission, that would be consistent
15 with what we have here of no positive blood culture
16 during the first admission, no positive lumbar puncture
17 during the first admission and similarity of strains
18 between Randall and his mother found in the second
19 admission?

20 A. Yes.

21 Q. And I believe you also testified earlier today
22 that it's possible that there was blood coming both in
23 and out of the cephalhematoma?

24 A. That is correct, that is possible.

25 Q. So, taking my hypothetical one step further --

1 and I believe you already testified to this -- the
2 cephalhematoma site, in fact, could have become infected
3 from that horizontal transmission because of the
4 exchanges of blood in to and out of the cephalhematoma
5 site?

6 A. That is correct.

7 Q. And there was not positive blood culture in
8 this case at all, was there?

9 A. There was not.

10 Q. All right. Do you have any opinions as to
11 whether or not Randall had any permanent injury just
12 from the delivery process, itself?

13 A. No, I do not have any opinion.

14 Q. In the immediate postnatal course -- and I am
15 talking about the day of delivery up until discharge
16 from the hospital on the 27th -- did Randall have any
17 neurologic manifestations?

18 A. (No answer).

19 Q. And if you don't know, that's fine.

20 A. Well, I don't recall any neurologic
21 manifestations.

22 Q. And would you agree with me that neonates are
23 especially susceptible to bacterial meningitis caused by
24 e-coli?

25 A. Yes, they are.

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1 have shown that it does?

2 A. That doing a C-Section increases --

3 Q. -- increases the risk of e-coli meningitis?

4 A. No, I am not aware of any such thing.

5 Q. You are not saying that those studies don't
6 exist; you are just not aware of them?

7 A. That is correct.

8 Q. And Doctor, a cephalhematoma, itself, is
9 generally a benign condition, or a condition not
10 requiring any special treatment?

11 A. That is correct.

12 Q. Doctor, are there figures as to what percent of
13 the population are carriers of the bacteria that cause
14 meningitis?

15 A. In the case of Group B Strep, we know that
16 somewhere between 25 to 40% of women here in the United
17 States of child bearing age are carriers of the Group B
18 Strep bacteria.

19 Q. What about e-coli bacteria?

20 A. Well, e-coli, probably the number is even
21 greater.

22 However, I am not aware of specific studies
23 looking at that, because I like Group B Strep which we
24 can do preventative measures, and we can predict the
25 possibility of infection.

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1 Q. And that's because they have not well developed
2 autoimmune systems?

3 A. It's probably a number of reasons, but we
4 believe that one is their immune system is not fully
5 functional or to the level that you would expect with an
6 older child.

7 They may also have to do with the amount of
8 exposure that a newborn gets. And it may also have to
9 do with the antibodies.

10 You and I have been exposed to e-coli on
11 multiple, multiple occasions, and certainly have
12 antibodies and other protective mechanisms that have
13 kept us from developing any of these infections.

14 But, certainly in the newborn, it is, indeed,
15 an important pathogen, just like other bacteria, ruby
16 strep that we only see in that age group.

17 Q. And e-coli is the predominant causative agent
18 for neonatal meningitis?

19 A. It is the second most common one.

20 Q. To Group B Strep?

21 A. That is correct.

22 Q. Doctor, does a C-Section delivery increase the
23 risk of the infant contracting e-coli meningitis?

24 A. No, it does not.

25 Q. You haven't seen any literature or studies that

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1 With e-coli, we don't have that capability.

2 Q. But, it would be at least as high as the
3 figures you gave me for Group B Strep?

4 A. If not higher.

5 Q. Do you know the figure as far as e-coli
6 meningitis in neonates, what percentage of neonates get
7 meningitis have it from e-coli bacteria?

8 A. Yes.

9 In the United States, it's responsible for
10 approximately thirty percent of the bacterial meningitis
11 in the newborn.

12 Q. Doctor, meningitis can occur in the absence of
13 a cephalhematoma, can it not?

14 A. Absolutely.

15 Q. And actually, that's how it normally occurs.

16 A. That's the most common.

17 Q. Without a cephalhematoma or without a subdural
18 hematoma or any type of a subgluteal bleed, that's the
19 most common way you see meningitis in the absence of
20 those things?

21 A. That's correct.

22 Q. All right.

23 A. If I may clarify a question that you had
24 earlier and here is what I was looking for.
25 (Indicating).

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1 Q. Sure.

2 A. You had asked me if there was any evidence of

3 neurologic involvement while the baby was in the newborn

4 nursery, and I had said no.

5 And that's still my answer, but I do want to

6 point out that the notes do reflect that he had

7 hypotonia, decreased tone.

8 That can be from many reasons.

9 But, I just wanted to --

10 Q. It is not uncommon in deliveries to have

11 hypotonia immediately after the delivery, is it?

12 A. That's correct.

13 Q. That's not something that you would consider

14 permanent in nature?

15 A. That is correct.

16 MR. WEINGART: Go ahead.

17 MR. VENKER: I represent Parkland Health

18 Center.

19 I have just a few questions for you.

20 THE WITNESS: Yes, sir.

21 EXAMINATION

22 Q. (BY MR. VENKER) Doctor, are you aware of any

23 literature or textbooks that deal with the phenomena you

24 have talked about, the walling off of the cephalhematoma

25 such that antibiotics could get in and permeate through

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1 the wall, and yet, the bacteria inside the

2 cephalhematoma could not get out?

3 A. No, I am not aware.

4 Q. The body, at times, does develop a walling off

5 of abscesses, doesn't it?

6 A. Yes, it does.

7 Q. Doesn't that prevent the abscess, the purulent

8 material, from spreading?

9 A. Yes, it does.

10 Q. Okay. In those situations, that makes it

11 certainly more difficult than ordinary for antibiotics

12 to permeate that walled-off abscess area, doesn't it?

13 A. Definitely.

14 Q. Does the presence of the cephalhematoma here

15 really play any role in your opinions?

16 I mean, this baby wouldn't have had to have a

17 cephalhematoma to contract this meningitis, would he?

18 A. No.

19 In this case, I am of the belief that the

20 cephalhematoma acted as a growth media.

21 That was the perfect petri dish.

22 The bacteria that, you know, in many cases, may

23 have been controlled by our immune system, or, this

24 baby's immune system found this blood, and that was the

25 perfect place to replicate and go unchecked from the

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1 immune system.

2 Q. Unchecked. But, in your theory, even unchecked

3 but, within the walled-off area of the cephalhematoma?

4 A. At that point, during the time of the first

5 admission, yes.

6 Q. You mentioned earlier some textbooks that you

7 either recognized or considered authoritative.

8 And I think you mentioned or you were asked

9 about Nelson's?

10 A. Yes.

11 I said it was a reliable resource. I do not

12 consider that an authoritative publication.

13 Q. Are there any textbooks in the area of

14 pediatric infectious diseases that you consider

15 authoritative?

16 A. No, there are not.

17 Q. Are there any that you turn to, yourself, when

18 you think of referring to or turning to a textbook that

19 you trust and rely on?

20 A. Yes, there are.

21 Q. Can you give me a list of those.

22 A. Yes.

23 Probably the most commonly used one is Feigin

24 and Cherry.

25 Q. When you say the "most commonly used," you mean

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1 by you?

2 A. By me.

3 Q. All right.

4 A. Feigin and Cherry is a textbook of the

5 pediatric infectious diseases.

6 Q. All right. Any others?

7 A. There is a textbook called Mandell, Douglas and

8 Bennett.

9 Q. Can you spell Mandell.

10 A. M-a-n-d-e-l-l.

11 Q. All right.

12 A. Douglas and Bennett.

13 Q. All right.

14 A. The Principles and Practice of Infectious

15 Diseases.

16 Q. Okay. Any others besides the Feigin, Cherry

17 and Mandell texts that you refer to routinely?

18 A. Specifically in terms of infection in the

19 newborn --

20 Q. Yes.

21 A. -- then there is a textbook by Remington and

22 Klein --

23 Q. All right.

24 A. -- called Infections in the Fetus in the

25 Newborn that I believe is a good resource.

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1 Q. Okay. Any others?

2 A. No, sir.

3 Q. All right. Mr. Fahrenkrog said earlier, Doctor,

4 that although you were not -- he was not going to be

5 asking you the standard of care opinions, that he might

6 -- objective standard of care opinions he described -- I

7 guess, in his own words, something called subjective

8 standard of care.

9 I am not sure I know exactly what it means, but

10 let me ask you this:

11 Do you have any such opinions of a subjective

12 standard of care dealing with the actual delivery of

13 Randall Parker at Parkland Health Center in January of

14 1999?

15 A. I have never encountered a legal definition of

16 the subjective standard of care.

17 Q. Nor have I.

18 A. Specifically as to your question, no, I do not.

19 MR. VENKER: Thank you.

20 I have no further questions.

21 MS. BARTOSIAK: I have nothing.

22 MR. SPATARO: Just a follow-up, Doctor.

23 EXAMINATION

24 Q. (BY MR. SPATARO) Kernicterus is what?

25 A. Kernicterus is a syndrome or entity that is

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1 characterized by damage to the brain due to high levels

2 of bilirubin.

3 Q. And I think we have already established that

4 when the child appeared at Children's Hospital on the

5 31st, he had an elevated bilirubin level, is that

6 correct?

7 A. That's correct.

8 Q. That quickly came down once treatment was

9 instituted?

10 A. That's correct.

11 Q. Okay. Did you, on any review of the records in

12 this case, come to any conclusions that this child

13 developed a condition of kernicterus?

14 A. To be honest with you, that is not one of my

15 areas of expertise, so I would not be able to tell you

16 "yes" or "no."

17 I do not see anything obvious at this time in

18 terms of the hearing deficit being caused from

19 kernicterus.

20 Q. Well, based on your level of expertise, is

21 there anything in this record, hearing loss or

22 otherwise, that would support the notion that this child

23 developed kernicterus?

24 A. I do not have an opinion to that.

25 Q. Let me just ask what I neglected.

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1 You did read, also, Dr. Gitlin's deposition.

2 Is there anything that strikes you at this

3 moment in time that you disagree with as far as Dr.

4 Gitlin's statements in the deposition?

5 A. If you allow me for a second.

6 Q. Sure.

7 A. Okay. I disagree with his assessment that the

8 type of symptoms that he showed during the first

9 admission would be fully explained by the

10 cephalhematoma.

11 I also disagree with his comment that

12 meningitis is not diagnosed by the results of the CSF

13 lab work.

14 Q. That it is not diagnosed?

15 A. That was his -- he said that meningitis is not

16 -- the diagnosis of meningitis is not established by

17 looking at the lab work.

18 Q. Do you believe it is?

19 A. I believe that the diagnosis of meningitis

20 ultimately relies on the results of the culture.

21 Q. Well, did not Dr. Gitlin rely on the results of

22 the blood and CSF cultures and the child's improving

23 condition in his decision to discharge him and

24 discontinue the antibiotics?

25 A. I believe that that's what he relied on.

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1 That's what his testimony is.

2 Q. All right. And is it your opinion that Dr.

3 Gitlin attributed all of this child's abnormal symptoms

4 in the admission to the cephalhematoma?

5 A. I believe that what he said is he attributed

6 this to the trauma at birth.

7 Q. Well, that's more than the cephalhematoma,

8 isn't it?

9 A. Yes.

10 Q. Okay. And in fact, we have pretty good

11 evidence of that via the imagining studies of the

12 child's brain, and that there is more to this than the

13 cephalhematoma?

14 A. That's correct.

15 MR. SPATARO: That's all I have.

16 MR. VENKER: Nothing further.

17 MS. BARTOSIAK: For the record, I would

18 like the exhibits attached if you could take the

19 exhibits and make copies and attach them to our

20 transcripts, and then, return the originals to the

21 doctor, if you would.

22 COURT REPORTER: Yes, ma'am.

23 CHANGES AND SIGNATURE

24 PAGE LINE CHANGE REASON

25

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1 THE STATE OF TEXAS) SS:
 2
 3 I, Bobbie Ames, a Certified Shorthand Reporter for
 4 the State of Texas do hereby certify that the foregoing
 5 deposition, as set forth in transcription, is a true and
 6 correct transcript of the proceedings had at the time of
 7 taking of said deposition.
 8
 9 IN TESTIMONY WHEREOF, witness my hand on this the
 10 30th day of August, A.D. 2002.
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 14 Bobbie Ames, CSR, RPR, CP
 15 2105 South Houston Road
 16 Pasadena, Texas 77502
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 6 JURAT
 7 I, ARMANDO G. CORREA, have read the foregoing
 8 deposition and hereby affix my signature that same is
 9 true and correct, except as noted above.
 10
 11 _____
 12 ARMANDO G. CORREA
 13
 14 THE STATE OF TEXAS)
 15 COUNTY OF HARRIS)
 16 Before me, _____, on this
 17 day personally appeared ARMANDO G. CORREA, known to me
 18 (or proved to me under oath or through
 19 _____)
 20 (description of identity card or other document) to be
 21 the person whose name is subscribed to the foregoing
 22 instrument and acknowledged to me that they executed the
 23 same for the purposes and consideration therein
 24 expressed.
 25
 26 Given under my hand and seal of office this
 27 _____ day of _____, 2002.
 28
 29 _____
 30 NOTARY PUBLIC IN AND FOR
 31 THE STATE OF TEXAS
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