

1 IN THE CIRCUIT COURT OF THE 17TH
2 JUDICIAL CIRCUIT IN AND FOR
3 BROWARD COUNTY, FLORIDA

3 LINDA and JORGE AYRE, as Personal)
4 Representatives of the Estate of)
5 GERARDO AYRE, Deceased,)
6)
7 Plaintiffs,)
8)
9 vs.)No. 01-4410 CACE 12
10)

11 HEALTHSOUTH OF FORT LAUDERDALE)
12 LIMITED PARTNERSHIP d/b/a)
13 SUNRISE REHABILITATION)
14 HOSPITAL, LUCY COHEN, M.D.,)
15 LAUREN LERNER, M.D., HENRY LIN,)
16 M.D., HENRY LIN, M.D.,P.A.,)
17 MATTHEW DEUTSCHER, M.D., DREW)
18 TOMENCHOK, M.D., GLENN MORRISON,)
19 M.D., FLORIDA PEDIATRIC)
20 NEUROSURGICAL ASSOCIATES, P.A.,)
21 JOHN RAGHEB, M.D., UNIVERSITY OF)
22 MIAMI d/b/a UNIVERSITY OF MIAMI)
23 SCHOOL OF MEDICINE, VARIETY)
24 CHILDREN'S HOSPITAL d/b/a MIAMI)
25 CHILDREN'S HOSPITAL, PHILIP)
ALDANA, M.D., PUBLIC HEALTH)
TRUST a/k/a JACKSON)
HEALTH SYSTEM,)
Defendants.)

-----x
18 Fort Lauderdale, Florida
19 February 18, 2003
20 11:15 A.M.

21
22 DEPOSITION
23 OF
24 ARMANDO CORREA, M.D.
25

1 APPEARANCES:

2 FAZIO, DAWSON, DiSALVO, CANNON,
3 ABERS, PODRECCA & FAZIO
4 BY: JEFF S. ABERS, ESQ., co-counsel,
5 appearing on behalf of the Plaintiffs.

6 MARK DICKSON, ESQ., co-counsel,
7 appearing on behalf of the Plaintiffs.

8 CONRAD & SCHERER
9 BY: REID A. COCALIS, ESQ., of counsel,
10 appearing on behalf of the Defendant
11 HealthSouth.

12 STEPHENS LYNN KLEIN LA CAVA
13 HOFFMAN & PUJA, P.A.
14 BY: JONATHON P. LYNN, ESQ., of counsel,
15 appearing on behalf of the Defendant Cohen, M.D.

16 BUNNELL, WOULFE, KIRSCHBAUM, KELLER,
17 COHEN, McINTYRE & GREGOIRE, P.A.
18 BY: ANDREW J. RADER, ESQ., of counsel,
19 appearing on behalf of the Defendants
20 Lin, M.D. and Lin, M.D.,P.A.

21 WICKER, SMITH, O'HARA, McCOY,
22 GRAHAM & FORD, P.A.
23 BY: ALEXANDRA ESPINOSA, JR., ESQ., of counsel,
24 appearing on behalf of the Defendant
25 Deutscher, M.D.

26 BILLING, COCHRAN, HEATH, LYLES & MAURO, P.A.
27 BY: VIVIAN FAZIO, ESQ., of counsel,
28 appearing on behalf of the
29 Defendant Tomenchok, M.D.

30 FOWLER, WHITE, BURNETT
31 BY: ROBERT BOUCHARD, ESQ., of counsel,
32 appearing on behalf of the Defendants
33 Ragheb, M.D. and University of Miami.

34 WOMACK & SAGE, P.A.
35 BY: DAVID APPLEBY, ESQ., of counsel,
36 appearing on behalf of the Defendant
37 Variety Children's Hospital.

1 Deposition of ARMANDO CORREA, M.D., a
2 witness of lawful age, taken by the Plaintiffs for
3 the purpose of discovery and for use as evidence in
4 the above-entitled cause, wherein LINDA and JORGE
5 AYRE, as Personal Representatives of the Estate of
6 GERARDO AYRE, Deceased are the Plaintiffs and
7 HEALTHSOUTH OF FORT LAUDERDALE d/b/a SUNRISE
8 REHABILITATION HOSPITAL, et al. are the Defendants,
9 pending in the Circuit Court of the 17th Judicial
10 Circuit in and for Broward County, Florida,
11 pursuant to notice heretofore filed, before TERESA
12 F. DURANDO, RPR, Registered Professional Reporter
13 and Notary Public in and for the State of Florida
14 at Large, at Fowler White Burnett, 100 Southeast
15 Third Avenue, Fort Lauderdale, Broward County,
16 Florida, on the 18th day of February, 2003,
17 commencing at 11:15 A.M.

18 -----

19 Thereupon:

20 ARMANDO CORREA, M.D.,
21 a witness named in the notice heretofore filed,
22 being of lawful age, and being first duly sworn in
23 the above cause, testified on his oath as follows:

24 DIRECT EXAMINATION

25 Q. (BY MR. ABERS) Could I get your name,

 BASS REPORTING SERVICE, INC.
 954-463-3326

1 sir.

2 A. Yes, sir. Armando, A-R-M-A-N-D-O, G.
3 Correa, C-O-R-R-E-A.

4 Q. Tell me, what you have done to get ready
5 for your deposition today. By that I mean not just
6 getting ready for the deposition, but things you
7 may have done a week, a month, two, three, four
8 months ago as far as reviewing records, talking to
9 Mr. Bouchard, anything.

10 A. Yes. I certainly have reviewed the
11 records that were submitted to my office.

12 Q. Let's go through them. What did you
13 review.

14 A. Sure. Death certificate; the records
15 from Miami Children's Hospital; records from
16 Sunrise Rehab center; the records from Dr. Glenn
17 Morrison; the records from Plantation General
18 Hospital; the records from Memorial Hospital; a
19 stack of records from different providers.

20 Do you want me to go through the list?

21 Q. Yep.

22 A. Okay. Urology Center of South Florida;
23 Dr. Lin, who is a pediatrician in Chicago; Dr.
24 McLone, M-C-L-O-N-E; Dr. William Kaplan, an
25 ophthalmologist in Chicago; Dr. Anita John; Dr.

1 Laskus; Mr. Gregory Harris; Dr. Kolettis,
2 K-O-L-E-T-T-I-S; Dr. Kurless, Dr. Yore; Dr. Luis
3 Rodriguez; Dr. Steven Gurvin; and Dr. Lawrence
4 Adams; as well as the records from Chicago Memorial
5 Hospital.

6 Q. Okay. And you reviewed some depositions,
7 as well.

8 A. Yes, I have.

9 Q. Whose are they?

10 A. I have the depositions of Dr. Henry Lin;
11 Dr. Drew Tomenchok; Dr. Matthew Deutscher; Dr.
12 Lauren Lerner; Dr. John Ragheb; Dr. Lucy Cohen.
13 That is the bulk of it.

14 Q. Bulk of it makes me think there is more.
15 Do you mean that is all of it?

16 A. That's all the records I have reviewed.
17 You also asked me if I had done other -- I have had
18 discussion with Mr. Bouchard on at least a couple
19 of occasions, one was this morning. The previous
20 one was on May 23rd of 2002.

21 Q. Were there any other things that you
22 reviewed other than the things you have already
23 told us one-by-one?

24 A. No, sir.

25 Q. And did you review any kind of

1 literature, do any research on your own?

2 A. No, I did not.

3 Q. Did you talk to anybody else other than

4 Mr. Bouchard to come to any of the opinions that

5 you have?

6 A. No, I did not.

7 Q. Can I look at this stuff you have in

8 front of you?

9 A. Certainly.

10 Q. When is the initial involvement that you

11 have in this case? When did it first start? Was

12 it with this letter in March of 2002?

13 A. That is correct.

14 Q. How did you get involved in this case?

15 How did you and Mr. Bouchard come to talk?

16 A. Prior to that date I received a call from

17 his law firm and he asked me if I was - if I would

18 be interested in reviewing this case.

19 Q. Do you know how it was that he got your

20 name?

21 A. No, I do not.

22 Q. Have you ever testified for his firm

23 before?

24 A. No, I have not.

25 Q. Fowler White.

1 A. I have not testified for them.

2 Q. Have you ever testified before for any
3 firm?

4 A. Yes, I have.

5 Q. Where, South Florida?

6 A. No, not in Florida.

7 Q. Where?

8 A. In Texas.

9 Q. For who?

10 A. A number of law firms.

11 Q. Go ahead.

12 A. Do you want me to - the ones I can
13 recall?

14 Q. Yes.

15 A. Greer & Martin.

16 Q. Where are they located?

17 A. They're in Houston, Texas. Why don't I
18 give you all the ones in Houston.

19 Q. Okay.

20 A. Fulbright & Jaworski; Allen & Sheey.

21 Q. A-L-L-E-N?

22 A. Yes, S-H-E-E-Y. Sherpe, S-H-E-R-P-E, and
23 Ware, W-A-R-E; Crusie, C-R-U-S-I-E, Scott. Those
24 are the ones that I can remember in Houston.

25 Q. Was that plaintiffs testimony, defense;

1 do you remember?

2 A. They're both. Some of them are defense.

3 Some are plaintiffs.

4 Q. There are some other ones elsewhere than

5 Houston?

6 A. Sure. San Antonio, Texas, Mr. Harold

7 Lotz, L-O-T-Z; Lyon & Rhodes; Usek & Onkin. Those

8 are the ones whose name I remember. Certainly

9 there is more.

10 I have also testified for law firms in

11 El Paso, Texas, Austin, Texas.

12 In other states you also want to know?

13 Q. You have testified in other states?

14 A. Yes, I have.

15 Q. How many other states?

16 A. Five or six.

17 Q. Did you start doing this testifying when

18 you were in your residency in Texas?

19 A. No, I did not.

20 Q. When did you start testifying?

21 A. After completing my fellowship after

22 joining the faculty of Baylor College of Medicine.

23 Q. How did you first get involved

24 testifying?

25 A. I don't recall the exact reasons. I

1 believe it was a lawyer who had come across an
2 article I had written and it was specific to his
3 case.

4 Q. Have you ever in the past or currently
5 done any kind of advertising of your services as an
6 expert?

7 A. No, I do not.

8 Q. Do you list yourself with any service or
9 anything like that?

10 A. No, I do not.

11 Q. So the only way somebody would find you
12 is like a MedLine search or asking somebody else?
13 You're not listed in any kind of journals or
14 publications?

15 A. Not that I am aware.

16 Q. In these cases that you testified in, the
17 ones in Texas, did you testify in trials?

18 A. I have testified in one trial in Texas.

19 Q. And the rest were depositions like we're
20 doing here today?

21 A. Yes, sir.

22 Q. What about in Florida?

23 A. I have not testified in Florida in any
24 deposition or at trial.

25 Q. This is the first time ever, this case?

1 A. In Florida, yes.

2 Q. Have you been hired by lawyers involving
3 cases in Florida, even if you didn't testify?

4 A. Yes, I have.

5 Q. Who was that by?

6 A. I have another case that I have reviewed
7 for this law firm down in Miami. I have had
8 involvement in another case, but I do not recall
9 the name of the law firm. That's the case that has
10 since been settled.

11 Q. The two other cases that you're telling
12 me, are they both cases where the defense hired
13 you?

14 A. Yes, sir, the two in Florida.

15 Q. And this is the third one?

16 A. Yes, sir.

17 Q. So they're all on behalf of the defense.

18 A. The ones in Florida, yes.

19 Q. Do you know anybody at Fowler White? Do
20 you know any of these lawyers on the stationery?
21 When I say know, business, social, personal,
22 related.

23 A. No, sir, none of them.

24 Q. The next question is if you, yourself,
25 ever have been sued in a medical negligence case.

1 A. Yes, I have.

2 Q. How many times?

3 A. Just one time.

4 Q. Where was that?

5 A. In Austin during my residency.

6 Q. What kind of issue was involved in the
7 case?

8 A. It was a child who died of complications
9 following surgery for a congenital heart disease.

10 Q. There was an infection issue related to
11 it?

12 A. No, sir.

13 Q. How were you involved in the case?

14 A. I was a resident taking care of this
15 child in the pediatric intensive care unit.

16 Q. That's the only time?

17 A. Yes, sir.

18 Q. Any other time where maybe you weren't
19 sued, where a lawsuit got filed but somebody wrote
20 and said we may make a claim, anything like that?

21 A. No, sir.

22 Q. So, you told us what you reviewed here.
23 Your first involvement you told me was March of
24 2002.

25 A. Yes, sir.

1 Q. That was with a phone call?

2 A. It was a phone call and then received - I
3 received the records that are listed there.

4 Q. And the substance of the phone call was
5 what?

6 A. I don't recall the full substance.
7 Basically it was if I had any interest and time to
8 review a case that involved an infectious disease
9 process.

10 Q. And you said?

11 A. And I said, yes, I would be glad to do
12 so.

13 Q. How do you charge for this work?

14 A. As you can see in that invoice, it's \$300
15 an hour for review of the records.

16 Q. Any other charges associated with what
17 you're doing?

18 A. My typical charge is \$400 -- Are there
19 anymore charges than this?

20 Q. Anymore charges that are different than
21 \$300 an hour for reviewing records?

22 A. Yes, \$400 an hour for meeting with
23 lawyers and typically when the depositions are in
24 my hometown, it's \$500 an hour for the deposition,
25 \$600 an hour for the trial testimony.

1 Q. And this money goes to you personally as
2 opposed to some other facility or anything?

3 A. Yes, sir.

4 Q. And your bill through June is 1,275?

5 A. That's correct.

6 Q. How much more is there?

7 A. I have not billed any more.

8 Q. Roughly. You have two hours you met with
9 Mr. Bouchard today.

10 A. Yes, sir.

11 Q. And the time for the deposition. What
12 about before today?

13 A. In reviewing all the records, probably
14 another five or six hours.

15 Q. Anything else?

16 A. No, sir.

17 Q. Do you plan to do anything else between
18 now and sometime in the future that you're thinking
19 about?

20 A. Specifically to this case?

21 Q. Well, I mean, I know you're planning on
22 leaving here and going back to Miami and having
23 lunch and things like that. I mean regarding this
24 case.

25 A. If I am asked to.

1 Q. You don't have anything like that in your
2 mind as you sit here right now.

3 A. That's correct.

4 Q. There is nothing else you're planning on
5 doing, correct?

6 A. That's correct.

7 Q. Research, review, depositions, anything
8 like that?

9 A. Unless you or Mr. Bouchard asks me to.

10 Q. Tell me, first of all, do you know any of
11 the parties that are involved in this case?

12 A. No, I do not.

13 Q. You don't know any of the doctors
14 involved, anybody at the facility?

15 A. No, I do not.

16 Q. Anybody at Memorial Hospital, Plantation
17 General? These are all strangers to you?

18 A. Yes, sir.

19 Q. You reviewed the medical care that was
20 provided to Gerry while he was at Sunrise Rehab?

21 A. Yes, I did.

22 Q. Tell me what problems he was having from
23 an infectious disease point of few.

24 A. He was having at different times fever.
25 That was his main complaint from an infectious

1 disease standpoint. He had a respiratory tract
2 infection in the early part of the month. Later on
3 he developed other symptoms that could be
4 attributed to an infection, such as vomiting and
5 headache.

6 Q. What kind of infection would that be?

7 A. Well, the infection that ultimately was
8 responsible for his death, bacterial meningitis.

9 Q. How did you diagnose that?

10 A. I concluded that by looking at the
11 records from Memorial Hospital, as well as
12 Plantation Hospital, and the death certificate.

13 Q. Forgetting the death certificate, what in
14 the records at Plantation General tell you that
15 this boy died from bacterial meningitis?

16 A. The patient actually didn't die there.
17 If you just review the history, it states that the
18 patient was admitted there in a coma. He had what
19 appeared to be brain dead at that time. And then,
20 upon transfer to Memorial, the diagnosis of
21 meningitis was established.

22 Q. Maybe I worded that poorly. I apologize.

23 I didn't suggest that he died when he was
24 at Plantation General. But what was it at
25 Plantation General that occurred or tells you as a

1 doctor that he did have bacterial meningitis? In
2 other words, I am specifically talking about both
3 his clinical situation, labs, whatever else you
4 want to rely on.

5 A. If you allow me for a second.

6 Q. Sure, take your time.

7 MR. BOUCHARD: These my be easier. These
8 have tabs in my copy.

9 A. The answer is his clinical course, the
10 fact that he was unresponsive, and the possibility
11 of meningitis was considered by the emergency room
12 physician. The fact that the pupils were
13 unresponsive and that his breathing was shallow,
14 requiring intubation. All of these, along with
15 what happened after, lead me to conclude that this
16 patient probably had meningitis.

17 Q. Are you satisfied that that's what this
18 boy died from? I mean, there is no question in
19 your mind about that?

20 A. I think that, in very high probability,
21 this patient died from meningitis.

22 Q. Okay. Now, is there something from your
23 review of the records that could have been done to
24 prevent him from dying of meningitis?

25 A. Not in my opinion.

1 Q. Why not?

2 A. Because the type of meningitis that he
3 had was fulminate. The type of bacteria that he
4 had is associated with high mortality in this
5 specific type of presentation. And, unfortunately,
6 there was not enough warning signs or time to make
7 a difference based on his clinical presentation.

8 Q. You mentioned two things, you said the
9 type of bacteria and type of what's the other thing
10 you said?

11 A. The fulminate course.

12 Q. Tell me the type of bacteria.

13 A. Type of bacteria, well, the bacteria that
14 he had, the one that was isolated, was a strep
15 bacteria. He also had tests that suggest that two
16 other bacteria were causing this meningitis, one is
17 Hemophilus influenza type B and the other is
18 pneumococcus.

19 Q. Are you telling me that neither one of
20 those bacteria that drew out are amenable to
21 treatment?

22 A. That's not what I said.

23 Q. That they could not be recognized timely
24 or what?

25 A. No, that's not what I said, either. What

1 I said is if you put into account the type of
2 bacteria that he had, the clinical course, there
3 was no clear warning and there was no - it was not
4 a situation where earlier administration of
5 antibiotics would have made a difference.

6 Q. What do you define as earlier?

7 A. Well, any time earlier than when the
8 first dose of intravenous antibiotic was given.

9 Q. When was that? That wasn't until
10 Plantation General, right?

11 A. That's correct.

12 Q. Are you telling me at some point earlier
13 if they had given him antibiotics that would not
14 have made a difference?

15 A. I would say more likely than not it would
16 not have.

17 Q. Is there a day, from looking at these
18 records, where if they had started this boy on the
19 type of antibiotics that are appropriate for this
20 bug it would have made a difference?

21 A. No.

22 Q. Never?

23 A. No.

24 Q. This was a meningitis that couldn't be
25 treated. Is that what you're telling me?

1 A. That is not what I am telling you. I am
2 telling you that, based on the clinical
3 presentation of the organisms, it's unlikely that
4 administration of antibiotics at any time earlier
5 than when it occurred it would have made a
6 difference.

7 Q. What if they had started the antibiotics
8 sometime on the morning of the 19th?

9 A. There is no scientific proof that that
10 would have made a difference.

11 Q. What do you think if they had started him
12 earlier than the 19th?

13 A. I can only speculate. The antibiotics
14 would have been started. He would have continued
15 to deteriorate and, more likely than not, he would
16 still have died.

17 Q. So, you're telling me that there is some
18 types of meningitis or some situations of
19 meningitis where no matter what you do as a medical
20 provider the patient is going to die?

21 A. I am telling you that there is clearly
22 fulminate meningitis that has been associated with
23 high mortality rate, irrespectively of the
24 administration of the antibiotics.

25 So, I guess to answer your question, yes,

1 in this patient specific, it's more likely than not
2 that the patient would have still died, even if
3 antibiotics had still been administered earlier.

4 Q. No matter what kind of antibiotics,
5 correct?

6 A. I mean, I am assuming that you're asking
7 me the appropriate antibiotics that were started at
8 Plantation.

9 Q. Which are what?

10 A. In most cases a third generation
11 cephalosporin.

12 Q. Vancomycin and Rocephin or something?

13 A. Yes.

14 Q. You're telling me if they had started
15 Vancomycin and Rocephin sometime earlier in his
16 care, other than the Plantation General admission,
17 it would not have made a difference?

18 A. Well, there is a point where you can
19 stretch this. I mean, certainly not at the time of
20 the clinical presentation.

21 Now, if you say, well, if the antibiotics
22 had been started before the bacteria ever got in
23 his system and had been continued to this time
24 course, you know, in that situation I couldn't say
25 that this couldn't have been prevented. That will

1 imply that, you know, every patient needs to go on
2 antibiotic, you know, for the duration of their
3 hospital stay.

4 So, I want to clarify that. I mean,
5 there is a point, yes, where antibiotics may have
6 made a difference, because this infection would not
7 have occurred. What I am saying is, once the
8 infection had established itself as a full type of
9 meningitis, the administration of antibiotics was
10 unlikely to have changed the outcome.

11 Q. Does any medical provider ever give a
12 patient antibiotics for the prophylactic treatment
13 of meningitis?

14 A. Yes, we do.

15 Q. Now, am I correct that in almost all
16 cases of meningitis that you treat there are some
17 signs and symptoms that warrant you coming to the
18 diagnosis of possible meningitis?

19 A. Yes, there are.

20 Q. In other words, in your patients that you
21 see, there are some signs or symptoms that occur
22 that make you think as a physician this could be
23 meningitis.

24 A. In some patients there are.

25 Q. And, in those situations, someone has

1 clinical signs or symptoms and then you start them
2 on antibiotics.

3 A. That is correct.

4 Q. And those are the antibiotics you just
5 talked about.

6 A. If I suspect bacterial meningitis, yes.

7 Q. And that's Vancomycin and Rocephin.

8 A. That's a good combination, yes, sir.

9 Q. Did this boy have any signs and symptoms
10 of meningitis at any time before he got to
11 Plantation General Hospital?

12 A. Yes, he did.

13 Q. And what were they and when did they
14 occur?

15 A. Those occurred in the early hours of the
16 20th when he had fever, vomiting, headache, and
17 alteration of the level of consciousness.

18 Q. Did he have any signs and symptoms that
19 suggest meningitis before that date?

20 A. Not in my opinion.

21 Q. Nothing on the 19th?

22 A. On the 19th he did have a fever, which is
23 a nonspecific finding. It's not specific or
24 necessarily exclusive of meningitis.

25 Q. What was his fever?

1 A. On the 19th he had a temperature
2 elevation initially to 101.2 and then later on in
3 the day went as high as 105.

4 Q. And that you're calling a nonspecific
5 fever?

6 A. I am calling -- Yes. I mean, a fever of
7 105 can be seen with a number of different
8 infectious processes.

9 Q. Tell me them.

10 A. Certainly any of the common viral illness
11 such as influenza, parainfluenza, adenovirus,
12 respiratory syncytial virus. You can see that with
13 bacterial infections such as salmonella, Shigella,
14 E. coli, any bacteria that causes urinary tract
15 infections, any bacteria that causes pneumonia,
16 pyelonephritis, gastroenteritis, infections in the
17 heart, the brain. Any infectious process that can
18 produce pus can certainly have a temperature of up
19 to 105.

20 Q. Are those --

21 A. There are a number of noninfectious
22 things that can cause a fever this high, certainly
23 tumors, connective tissue diseases, neurologic
24 fever, fever from the origin of the central nervous
25 symptom. That's what I mean by nonspecific. There

1 is literally hundreds of reasons why a patient can
2 have 105.

3 Q. Are they amenable to treatment of
4 antibiotic?

5 A. Some of them are, some of them are not.

6 Q. Was this boy on antibiotics?

7 A. At the time he had 105, yes, he was.

8 Q. Would the antibiotics have addressed some
9 of those things you just talked about?

10 A. They may have addressed some of them,
11 yes.

12 Q. What was wrong with him on the 17th,
13 18th, and 19th?

14 A. On the 17th, 18th, and 19th he was
15 recovering from what was deemed to be a respiratory
16 tract infection.

17 Q. Do respiratory tract infections lead to
18 meningitis?

19 A. They frequently precede the development
20 of meningitis. In fact, in some studies, 50
21 percent or more of the patients with bacterial
22 meningitis have a preceding viral illness.

23 Q. Is there anything that would suggest in
24 this boy's clinical picture on the 17th, 18th, and
25 19th that he could possibly be on the road to

1 developing meningitis?

2 A. On the 17th and 18th, no.

3 Q. Let me ask it this way: At any time
4 before the 20th, was there anything that you
5 reviewed in this boy's medical records that would
6 suggest to a medical provider that there could be
7 meningitis on the horizon?

8 MR. BOUCHARD: Object to the form of the
9 question.

10 MR. ABERS: What's wrong with it?

11 MR. BOUCHARD: You're asking him
12 possibilities. That's not the standard.

13 Go ahead. You can answer.

14 THE WITNESS: In retrospect, it is likely
15 that the meningitis first developed around the
16 19th.

17 Q. (BY MR. ABERS) First developed?

18 A. The meningitis was -- The signs that
19 preceded meningitis were on the 19th.

20 Q. What about the underlying things that
21 sometimes occur before a patient gets meningitis,
22 like the upper respiratory problems? What's the
23 percentage of people that get that when they have
24 meningitis that starts with upper respiratory?

25 A. I said 50 percent or more.

1 Q. So, is it fair to say that when patients
2 such as this develop meningitis, half the time they
3 start with some kind of upper respiratory
4 involvement?

5 A. I think that is my statement, yes.

6 Q. That's what a medical doctor would know?

7 MR. BOUCHARD: Object to the form.

8 MR. RADER: Join.

9 Q. The average doctor would know that,
10 correct?

11 MR. BOUCHARD: Object to the form.

12 MR. RADER: Join.

13 A. I don't know that the average doctor, but
14 many doctors know that respiratory tract infections
15 frequently precede the development of meningitis.

16 Q. Now, are respiratory tract infections
17 usually taken care of with the use of antibiotics?

18 A. Depends on what the cause of the
19 respiratory tract infection is.

20 Q. Do you know what his cultures ever grew
21 up from the upper respiratory?

22 A. His cultures were negative.

23 Q. Meaning what? What's the significance of
24 that to you?

25 A. Means that the bacteria that were looked

1 for that may cause respiratory tract infections
2 were not in his sputum. So that suggests to me
3 that this was probably viral in origin.

4 Q. Was there anything in his clinical
5 picture that suggested he could be, as I said
6 earlier, heading towards meningitis?

7 MR. BOUCHARD: Object to the form. When?

8 Q. At any time before the 20th. You said
9 the 19th. Let's use before the 19th.

10 A. No.

11 Q. Nothing?

12 A. Nothing.

13 Q. Have you ever taken care of patients with
14 meningitis?

15 A. Many times.

16 Q. Every day?

17 A. Virtually every day.

18 Q. Since what, '88?

19 A. Since '91.

20 Q. Since '91 when you were at the Children's
21 Hospital of Austin, correct?

22 A. When I started my fellowship in pediatric
23 infectious diseases. I have taken care of patients
24 with meningitis since '88. When I said virtually
25 every day is from '91.

1 Q. So that's at Baylor.

2 A. That's correct.

3 Q. That's for the last 22 years you have
4 been taking care of patients just about every day
5 that have meningitis.

6 A. I hope it's more like 11.

7 Q. 12. Sorry. I gave you an extra ten
8 years for nothing.

9 You have been taking care of patients
10 every day with that.

11 A. Yes, sir.

12 Q. Tell me what the signs and symptoms of
13 meningitis are.

14 A. Well, the classic signs and symptoms are
15 headache, vomiting, nausea, alteration in level of
16 consciousness, fever, stiffness of the neck. In
17 some occasions you may see a rash.

18 Q. Where?

19 A. In the skin, generally anywhere in the
20 skin.

21 Q. Where is the most likely place to see it?

22 A. Usually in the extremities and trunk.

23 Q. Trunk meaning chest?

24 A. Meaning chest and abdomen.

25 Q. Okay, go ahead.

1 A. And those are the most common or the
2 typical signs and symptoms of meningitis.

3 Q. Do they have to all be present at one
4 time to make a diagnosis of meningitis or can one,
5 two, or some other combination be present to let a
6 physician start thinking meningitis?

7 MR. RADER: Form.

8 A. You asked me two questions. You asked me
9 if they all have to be present to diagnose
10 meningitis and then you asked me if they have to be
11 present to suspect meningitis.

12 So the answer to the first question is,
13 no, the diagnosis of meningitis is not established
14 by clinical criteria. It's established by
15 cultures.

16 The second question is, no, they don't
17 all have to be present at the same time. In fact,
18 frequently they are not.

19 Q. In retrospect, looking at Gerry's records
20 while he was at Sunrise Rehab, do you see anything
21 that could be defined as a sign or symptom of
22 meningitis at any time he was a patient there,
23 other than the 19th or 20th?

24 A. No, I do not.

25 Q. What about his rash?

1 A. No. In fact, his rash was described as
2 an itchy rash, paretic rash. This is not the
3 typical appearance of a rash from meningitis.

4 The rash from meningitis does not itch.
5 It's almost exclusively seen with one type of
6 bacteria that was not present in his spinal fluid.

7 Q. Where does it say that it was an itchy
8 rash?

9 A. Described in the nursing notes at
10 Plantation - I am sorry, at Sunrise Hospital.

11 Q. Can you find that for me?

12 MR. BOUCHARD: Do you want to know the
13 date to save time?

14 MR. ABERS: Yes, have you got it there?

15 MR. BOUCHARD: The 8th, 10th --

16 MR. ABERS: What?

17 MR. BOUCHARD: July 8th --

18 MR. ABERS: What are you looking at?

19 MR. BOUCHARD: Nursing notes.

20 The 11th, 17th, and the 19th. They all
21 say itching.

22 MR. ABERS: Yes, I know that.

23 THE WITNESS: It may be in the nursing
24 notes instead.

25 MR. COCALIS: I bet you probably got them

1 from the MAR. On the 17th Benadryl two caps,
2 complains of itching. I think that's where you got
3 it from.

4 MR. BOUCHARD: Here is the 8th, nurse
5 medication notes, starting at the 8th here and
6 here.

7 THE WITNESS: In the nurses medication
8 notes there is a reference to itching on 7/8 at
9 2225.

10 Q. (BY MR. ABERS) Where was that itching?

11 A. It just says complains of itching.

12 Q. How do you know what that's from?

13 A. No, I do not know where it's from.

14 Q. How do you know it was the rash on his
15 chest or trunk that was itching?

16 A. Because the note on 7/10 states that he's
17 complaining of itchy rash.

18 Q. Where is that rash?

19 A. It's not stated in this note.

20 Q. Okay. Do you find in the records, I
21 think you told us earlier that there was an
22 indication, at least that came to your mind, that
23 it was not a rash related to meningitis because it
24 was itchy.

25 A. I said it was itchy and it did not have

1 the typical appearance of a rash that you see with
2 meningococcal meningitis.

3 Q. I am trying to find where you got that
4 information.

5 A. I got it from reviewing the
6 depositions --

7 Q. Whose deposition?

8 A. Well, all the depositions that I
9 reviewed. I don't know exactly which one. Was the
10 one who made the reference to what the appearance
11 of the rash was. But, I have concluded that from
12 reviewing those depositions, as well as the nursing
13 notes.

14 Q. The nursing note you're relying on is the
15 thing Mr. Bouchard is showing you, which is not a
16 nursing note, but it's a nursing Medication
17 Administration Record.

18 MR. COCALIS: Object to the form.

19 Q. It's not a typical nursing note in the
20 sense of the narratives where the nurses write
21 their observations.

22 MR. BOUCHARD: Object to the form of the
23 question.

24 A. I do not know what you mean be typical.
25 This is entitled nurse's medication note.

1 Q. You wouldn't call that a nurse's note, a
2 Medication Administration Record. If you went to
3 see a patient and said let me see the notes on the
4 patient and they handed you that, you would say
5 that's not the nurse's notes. That's the
6 Medication Administration Record, right?

7 MR. BOUCHARD: Object to the form.
8 Argumentative.

9 A. It's a nursing administration record of
10 medications.

11 Q. It's not a nurse's note the way you think
12 of nurse's notes which are observations and
13 evaluations and impressions of the nurse.

14 A. That is correct.

15 MR. BOUCHARD: Object to the form.

16 Q. Is there anything in nursing notes that
17 you reviewed that discusses this rash is my
18 question.

19 A. If you allow me for a second.

20 Q. Sure.

21 A. Not in the specific nursing notes.
22 However, there is a note that suggests there was
23 itching on the progress notes dated July 9th.

24 Q. Where is that? What page are you looking
25 at? Did you find that or Mr. Bouchard found that?

1 A. Mr. Bouchard just pointed out to me that
2 there is --

3 MR. BOUCHARD: I am not sure what it
4 says, to tell you the truth. It's hard to see. I
5 am not sure if that's twitching or itching.

6 A. 7/9/99 the note says complaining of
7 either itching or twitching.

8 Q. That's page 41?

9 MR. COCALIS: 40.

10 Q. You're looking at where down the page
11 there?

12 MR. COCALIS: The next to the last entry.

13 Q. Let's assume it says twitching.

14 A. Okay.

15 Q. Do you think that says itching there?

16 A. No, I don't know what it says.

17 Q. Let's assume it says twitching.

18 A. Okay.

19 Q. Let's assume that the nurse, Lisa
20 Jeffries, testified that it says twitching. If
21 that says twitching, tell me where the note is that
22 you're talking about that talks about this itch not
23 being consistent with meningitis.

24 A. If the testimony is that it says
25 twitching, there is no indication in that note that

1 this was not an itchy rash.

2 Q. So then you're wrong about what you told
3 us just a few minutes ago.

4 A. No, I am not.

5 Q. You said earlier just a few minutes ago
6 that this rash was not consistent with meningitis
7 because the rash on his chest was itching, correct?

8 A. I said the rash was itching, yes.

9 Q. Where did you get that from?

10 A. As I mentioned to you, I got it from the
11 nursing medication administration sheet.

12 Q. Doesn't say where the rash was or what it
13 was for.

14 A. That's correct.

15 Q. So how do you know it's from that?

16 A. I can assume that.

17 Q. How?

18 A. That's the only place where it's been
19 described that he had a rash. I haven't seen any
20 notes saying that he had a rash, you know, on the
21 tip of his toe and that that was what was causing
22 this.

23 Q. Let's go back then to some of the other
24 signs. Let's talk some more about signs and
25 symptoms.

1 What about his temperature, you reviewed
2 his temperature readings during the time he was at
3 Sunrise?

4 A. Yes.

5 Q. What do you attribute that to, his
6 temperatures that were not normal?

7 A. What time?

8 Q. Let's start with the first one and go
9 through them all. I mean, first of all, let me ask
10 you this: Without looking at all of them, I take
11 it you have an opinion about what his temperature
12 elevations were related to or caused by?

13 A. Yes, I do.

14 Q. What were they caused by?

15 A. The temperature elevations in the earlier
16 part of the course were related to what was
17 diagnosed as a respiratory tract infection.

18 Q. Okay.

19 A. Then, those --

20 Q. How do you know that?

21 A. That was the clinical diagnosis and I
22 have no reason to disagree with that. He had
23 production of thick sputum. He had slight
24 elevation in the white count. He had respiratory
25 symptoms. And those were all consistent with a

1 respiratory tract infection.

2 Q. Are those same symptoms of the
3 respiratory tract infection the same symptoms that
4 can precede meningitis or is there some difference
5 to these?

6 A. No, just as I mentioned earlier, any
7 respiratory tract infection can precede meningitis.
8 This could certainly be those.

9 Q. And would they be susceptible to the
10 antibiotics that were given there? In other words,
11 should the antibiotics have made some difference in
12 whatever bugs you're talking about?

13 A. I don't understand your question.

14 Q. They had him on Cipro and Biaxin while he
15 was there.

16 A. Yes.

17 Q. Should those have addressed these bugs or
18 whatever that was going on causing these symptoms?

19 A. You had asked me earlier and in fact they
20 did not isolate a specific bacteria as the cause of
21 his respiratory symptoms. So we can assume that
22 more likely than not this was viral. So
23 antibiotics would likely have not made a
24 difference.

25 Q. We know that he didn't die from a viral

1 illness, he died from a bacterial illness, correct?

2 A. That is correct.

3 Q. There is not any doubt in your mind about
4 that?

5 A. I think that it is very likely that he
6 died from a bacterial meningitis.

7 Q. Is there any reason that he couldn't have
8 been given a spinal tap to figure out if he had
9 meningitis or not?

10 A. At what point?

11 Q. Ever.

12 A. Is there any reason? Well, first of all,
13 there was no indication to do a spinal tap. That
14 would be a reason to not do it.

15 Second, if there was an indication for
16 spinal tap or if anybody felt that there was an
17 indication for spinal tap, there was the issue of
18 what his spinal cord anatomically was like, in
19 other words, what the anatomy there was, knowing
20 that he had a history of spina bifida with a
21 lipomeningocele.

22 Q. Even with that history, there is a way to
23 get enough CSF to analyze it, is there not?

24 A. Yes, it's likely that it was possible to
25 do the spinal tap.

1 Q. You're saying it's likely it was
2 possible. There is no medical indication that
3 would prevent someone from doing a spinal tap on
4 Gerry Ayre, is there?

5 A. The proper term is there any medical
6 contraindication.

7 Q. Tell me.

8 A. There was no contraindication to doing
9 the spinal tap, just like there was no indication.

10 Q. So, am I correct that there is nothing
11 that would have prevented a doctor from doing a
12 spinal tap on Gerry Ayre?

13 A. Other than his or her own clinical
14 skills, no.

15 Q. In other words, there is no medical,
16 anatomical, pathological, or any other kind of
17 reason that one couldn't have been done should a
18 doctor wanted to do one.

19 A. I had mentioned there may be some
20 anatomical considerations in this particular
21 patient.

22 Q. That you could work around.

23 A. That you would probably be able to work
24 around.

25 Q. How long does it take to get results from

1 cerebral spinal fluid analysis?

2 A. To get results from what?

3 Q. To test for meningitis.

4 A. If you're looking for evidence of
5 meningitis, there are a number of tests that can
6 come back in a number of hours. The definitive
7 test, again, for bacterial meningitis usually takes
8 anywhere from one to five days and that is a
9 culture.

10 Q. But, to address meningitis and treat it,
11 you can certainly get started within a couple of
12 hours of doing a tap.

13 A. That is correct.

14 Q. And what happens when you don't treat
15 meningitis?

16 A. Again, which type of meningitis?

17 Q. Bacterial meningitis.

18 A. Bacterial meningitis is frequently a
19 fatal disease if untreated.

20 Q. Why?

21 A. Because it's a very serious disease
22 involving one of our most important organs and it's
23 associated with mortality as high as 90 percent.

24 Q. What happens if it's treated; what's the
25 mortality rate?

1 A. It depends on the specific organism and
2 the therapy that is given, but certainly the
3 mortality rate has decreased since the advent of
4 antibiotics.

5 Q. To what?

6 A. Again, depends. For each and every one
7 of different bacterial organisms there is a
8 different number.

9 Q. Give me a range.

10 A. As little as 8 percent, as high as 50 or
11 75 percent.

12 Q. Can you tell anything from the kind of
13 meningitis he had whether it is susceptible at all
14 to any kind of therapy?

15 A. If you are asking me specifically is the
16 bacteria that he had susceptible to the antibiotics
17 currently available, the answer is yes.

18 Q. And those would be the ones you told us
19 earlier, Vancomycin and Rocephin.

20 A. That's correct.

21 Q. As the two drugs of choice?

22 A. As a potential combination of drugs of
23 choice.

24 Q. Was this boy at any greater risk of
25 developing meningitis than somebody in the general

1 population?

2 A. Yes, I believe so.

3 Q. Why?

4 A. Because he had had a recent neurosurgical
5 procedure that involved exposure of the brain.

6 Q. And why does that put him at an increased
7 risk for meningitis?

8 A. Well, because the bacteria can gain
9 access to the brain through the surgical wound.

10 Q. Is that something in your experience that
11 an infectious disease doctor would know, that he is
12 at increased risk for meningitis?

13 A. In my opinion, yes.

14 Q. Is that something that a pediatrician
15 would know, in your experience?

16 A. In my experience, yes.

17 Q. Is that something that a neurosurgeon
18 would know?

19 A. Yes.

20 Q. Is that something that a nurse taking
21 care of post neurosurgical patients should know?

22 MR. COCALIS: Object to the form.

23 A. I am not qualified to give an opinion as
24 to what nursing knowledge would be.

25 Q. But, as far as from a physician

1 standpoint, even given a pediatrician, a specialist
2 like a neurosurgeon, a specialist like an
3 infectious disease person, any physician in those
4 specialties knows that a person who has
5 neurosurgery is at increased risk of developing
6 meningitis?

7 A. Yes, with the clarification that it
8 depends, you know, on the type of neurosurgery that
9 the patient had. You know, neurosurgeons also
10 operate on organs outside the central nervous
11 system.

12 Q. Given Gerry Ayre's type of surgery,
13 you're telling us that any physician, no matter
14 what their specialty, should know that the patient
15 is at an increased risk of developing meningitis
16 postoperatively.

17 A. That's not what I said.

18 Q. Correct me.

19 A. You asked me specifically for a
20 neurosurgeon and pediatrician.

21 Q. All right.

22 A. And I answered yes to both of those.

23 Q. Let me rephrase it then. Let me clarify
24 that.

25 You're telling me that any pediatrician,

1 neurosurgeon, infectious disease doctor should know
2 that a patient who has the type of surgery Gerry
3 Ayre had is at increased risk of developing
4 meningitis.

5 A. Assuming that they know what the
6 particulars of the surgery was, yes.

7 Q. Well, they should know that if they're
8 taking care of the patient, right?

9 A. Not necessarily.

10 Q. They shouldn't know what kind of surgery
11 a patient has? They shouldn't be familiar with a
12 history?

13 A. They should be familiar with the fact
14 that the patient had surgery. But I don't know
15 that it's mandated that they know the details about
16 the surgery.

17 Q. Well, let's put it this way: If they
18 know it was neurosurgery and if they know it was
19 surgery involving the spine, then they should be in
20 that awareness level that meningitis can develop.

21 A. Again, not necessarily.

22 Q. Okay. What about physical medicine
23 doctors, physiatrists, should they be in that same
24 group of being aware that a patient like Gerry Ayre
25 is at increased risk of developing meningitis?

1 A. I am not qualified to give an opinion.

2 Q. Fair enough.

3 Let's talk a little bit about the other
4 signs and symptoms of meningitis and what Gerry may
5 have had or may not have had that was observed
6 while he was a patient there.

7 What about neck pain, is that a sign or
8 symptom of meningitis?

9 A. It can be.

10 Q. Did Gerry Ayre have neck pain prior to
11 July 19th?

12 A. Yes, he did.

13 Q. And what was causing that neck pain?

14 A. Well, before the surgery it appears that
15 it was a combination of an anatomical
16 malformation --

17 Q. We're only concerned about after the
18 surgery.

19 A. Okay. If you're asking me just after the
20 surgery, he had a very extensive procedure in his
21 neck. It is my opinion that very likely the neck
22 pain was related to the surgical procedure.

23 Q. How do you know that?

24 A. I do this based on what his clinical
25 course was and what the typical pattern is for a

1 patient who has had a procedure done in his or her
2 neck.

3 Q. Do you see anything in the record
4 indicating neck pain that could suggest one of the
5 signs or symptoms of meningitis?

6 A. Yes, I do.

7 Q. Where is that?

8 A. I believe that very likely the neck pain
9 that he was experiencing between the evening of the
10 19th and early on the 20th was probably due to
11 meningitis.

12 Q. Where did you get that from?

13 MR. BOUCHARD: Object to the form of the
14 question. I am not sure --

15 Q. Where in the records do you get that
16 opinion?

17 A. Do the records say it's from meningitis?
18 They don't.

19 Q. No. Where in the records do you come to
20 the opinion that the neck pain that he had on the
21 19th and 20th -- Am I using the right dates?

22 A. The 19th and 20th, yes.

23 Q. Where in the records do you get that the
24 neck pain that he had on the 19th and 20th comes
25 from meningitis?

1 A. I'm not getting an opinion from the
2 records. I am getting an opinion from my
3 interpretation of them.

4 Q. Well, did he have neck pain at any point
5 before the 19th?

6 A. Yes, he did.

7 Q. How is that different than the neck pain
8 he had on the 19th?

9 A. I don't know if it's any different in
10 terms of what is described in medical records. But
11 I can tell you that, based on what his clinical
12 course is, based on his presentation, the neck pain
13 that he had on the 19th and 20th was more likely
14 related to the meningitis, while the pain that he
15 had before was more likely related to his post-op
16 course.

17 Q. Other than testifying in favor of the
18 defendant in this case, how do you know that? I
19 mean, what is in these records that tells you as a
20 doctor that there is a difference in those two
21 types, kinds, or anything to do with neck pain?

22 MR. COCALIS: Object to the form.

23 MR. BOUCHARD: Object to the form.

24 MS. FAZIO: Join.

25 MR. RADER: Join.

1 A. The reason that I can state that is I
2 know that he did not have meningitis when he had
3 the neck pain earlier in his course.

4 Q. How do you know that?

5 A. Because of the clinical course and the
6 presentation, the type of meningitis that he had.
7 I know that he didn't have meningitis; otherwise,
8 he would have died much earlier. And I know that
9 the presentation that he had on the 19th and 20th
10 could be consistent with meningitis.

11 You're right. Maybe the 19th or 20th it
12 was still from post-op pain. I don't have a way of
13 knowing. But, now knowing that he did have
14 meningitis at that time, it is possible that it was
15 from the meningitis.

16 Q. So the answer to my question then is, in
17 truth, you don't know the answer to my question as
18 to whether this pain that he had on the 19th and
19 20th was from meningitis or from post surgical pain
20 from the operation site.

21 MR. BOUCHARD: Object to the form.

22 A. No, the answer to your question was, I am
23 of the opinion that the pain that he had before the
24 onset of meningitis was from post-op complications
25 and I do not know if the pain that he had after the

1 onset of meningitis was from post-op or if it was
2 actually due from the meningitis.

3 Q. If meningitis kills a patient if it's
4 untreated and it's so easy to diagnose, is there
5 any reason that there shouldn't have been a test
6 for it earlier than Plantation General Hospital?

7 MR. BOUCHARD: Object to the form of the
8 question.

9 MR. RADER: Form.

10 A. I disagree with your statement that it's
11 so easy to diagnose.

12 Q. Well, does analysis of the cerebral
13 spinal fluid usually give you the answer as to
14 whether there is bacterial meningitis or not?

15 A. What does that have to do with easy or
16 not?

17 Q. With what?

18 A. With being easy or not to make a
19 diagnosis?

20 Q. Well, people die if you don't make the
21 diagnosis, right?

22 A. That's correct.

23 Q. Is it pretty easy to do the spinal tap?

24 A. Yes.

25 Q. Okay. And someone should be at an

1 increased level of suspicion for meningitis in this
2 boy, right?

3 A. No, not necessarily.

4 Q. I thought you told me earlier they should
5 be. He's at greater risk of developing, right?

6 MR. BOUCHARD: Object to the form.

7 A. That's correct, but I didn't say that in
8 this boy he was at an increased risk of meningitis.
9 You asked me a question that was nonspecific as to
10 patients who have had a neurosurgical procedure
11 like his.

12 Q. Tell me what you do as an infectious
13 disease doctor about a fever of unknown origin.

14 A. If the patient meets the criteria of
15 fever of unknown origin, I do a workup to try to
16 find the cause of the fever.

17 Q. What do you define as a fever of unknown
18 origin?

19 A. It's a fever that has been ongoing for
20 more than 14 days and in which there is no specific
21 source for the fever and in which a basic workup
22 has been done.

23 Q. Did this boy have a fever of unknown
24 origin?

25 A. No, he did not.

1 Q. You don't agree with Dr. Ragheb?

2 A. By the definition that we use in
3 infectious disease, this was not a fever of unknown
4 origin.

5 Q. Assume that the doctors who took care of
6 this boy thought he had a fever of unknown origin.
7 Just assume that that's true.

8 A. That's fine. Maybe we should use the
9 term fever without a source.

10 Q. Let's do that. That's even better.

11 Let's assume that the doctors taking care
12 of this boy thought he had a fever from an unknown
13 source. What do you do in that kind of situation?

14 A. Well, I cannot assume that because they
15 did --

16 MR. BOUCHARD: Object to the form of the
17 question.

18 A. -- they did have a potential source in
19 their care of this patient. If you're asking me to
20 assume that there was no source --

21 Q. Yeah.

22 A. They should have done or they would have
23 done a workup to try to establish what the source
24 was.

25 Q. And a workup is defined as?

1 A. Well, depends on what the patient's
2 symptoms were other than the fever.

3 Q. Headache.

4 A. In this particular patient? A CAT scan
5 to define the anatomic area to make sure that there
6 was not a complication.

7 Q. Okay. And assuming they do a CAT scan
8 and it's negative, next?

9 A. Yes, sir. CBC, blood culture. In this
10 patient who had respiratory symptoms, a chest
11 x-ray, culture of the sputum.

12 Q. Now they still have a fever. What do
13 they do? They get those results and they still
14 have a fever to deal with. What's next?

15 A. Again, because you're asking me to
16 assume, I need to know more of what has happened
17 since then.

18 Q. Well, let's talk about his sed rates.
19 Have you looked at those?

20 A. You're changing from a theoretical
21 situation to what this patient's situation is.

22 Q. Let's go to the sed rates. What
23 significance did his sed rates have to you?

24 MR. BOUCHARD: Before that, I need to
25 take a break.

1 (Whereupon, a brief recess was taken.)

2 Q. When we took a break I was going to ask
3 you about the sed rates and what you thought about
4 them in Gerry's case.

5 A. I thought that the sedimentation rate was
6 elevated.

7 Q. What do you attribute it to?

8 A. The sedimentation rate is a nonspecific
9 test that tells you the degree of inflammation that
10 is ongoing.

11 Q. And why is his going up instead of down?

12 A. I do not know the specific reason in his
13 case of why they continue to be elevated rather
14 than coming down. As I mentioned earlier, it's a
15 nonspecific test that just tells you how much
16 inflammation is ongoing and I don't know in his
17 case why they remain high.

18 Q. When you use the word nonspecific, I
19 realize as a doctor you use it and we might take it
20 differently, so what do you mean by nonspecific?

21 A. Sedimentation rate is just an indicator -
22 it's what we call an acute phase reactant. In
23 other words, this is an indicator of how much
24 inflammation, how much swelling is going on in the
25 body. It doesn't tell you if there is swelling

1 from an infection, if it's swelling from a trauma,
2 if it's swelling from a post-op procedure or
3 post-op course, if it's swelling from a connective
4 tissue disease. It just tells you there is ongoing
5 inflammation in the body.

6 Q. What is the most likely scenario for the
7 elevated sed rate in Gerry Ayre?

8 A. I believe -- First let me ask you a point
9 in time.

10 Q. Well, do you know what his sed rates
11 were?

12 A. Yes, I do.

13 Q. First one was 92.

14 A. Yes.

15 Q. Second one was 108.

16 A. That's correct.

17 Q. Third one 125.

18 A. Yes, sir.

19 Q. Do you know when they were done?

20 A. Yes, they were done in the time period
21 between the 12th and the 16th or 17th.

22 Q. So you answered your own question, right?

23 A. Well, I don't know if there was other sed
24 rates that you were taking into consideration.

25 Q. No, just those three.

1 A. I believe that it was probably a
2 combination of factors, both the fact that he was
3 covering from a very extensive surgical procedure
4 and the sed rate may have also been - may have also
5 remained elevated or continued to elevate because
6 of an ongoing infection.

7 Q. Well, let's talk about infection second.
8 Let's talk about the postoperative reasons first.

9 He is how long post-op when they do the
10 first sed rate?

11 A. Approximately three weeks.

12 Q. And the second?

13 A. Three weeks and two days.

14 Q. And the third?

15 A. Three weeks and four days.

16 Q. Does that tell you as a doctor that with
17 a sed rate going up instead of down that it's less
18 likely to be related to postoperative changes or
19 reactions, things like that?

20 A. No, it does not.

21 Q. It does not. In your experience, that's
22 perfectly consistent with a postoperative course?

23 A. In surgery as extensive as this one, it's
24 not unusual to see elevation of the sedimentation
25 rate persist for four or five weeks.

1 Q. Is it likely?

2 A. I don't know that there has been any
3 study that looks at how long this lasts. So I am
4 not able to answer that question.

5 Q. If someone asks you this question, tell
6 me how you would answer it. The question is:
7 Forgetting everything else about Gerry Ayre's
8 medical situation, other than the date and type of
9 surgery that he had and the three sed rate
10 readings, would you say that that is unlikely to be
11 related to a postoperative change?

12 A. I would answer that by saying that some
13 of it may be related to a postoperative change and
14 it's possible that there is another process that is
15 explaining why the sed rate is going up instead of
16 down.

17 Q. An if it's not a postoperative change, is
18 it related, in all likelihood, to infection?

19 A. It could be to infection.

20 Q. What kind of infection?

21 A. As I mentioned to you, this is a
22 nonspecific test. So it does not tell you by any
23 means which kind of infection.

24 Q. But it does indicate the possibility of
25 infection.

1 A. It indicates the possibility of a
2 persistent inflammatory process.

3 Q. Is there anything about the sed rate
4 readings and the times that they were done that
5 would suggest to you that it can't be meningitis?

6 A. No. It's an unrelated test. It's a test
7 that has no bearing on the diagnosis of meningitis.

8 Q. I didn't say it did. I am asking you if
9 there is anything about those three readings, 92,
10 108, and 125 and when they were done that suggests
11 to you, hey, this can't be meningitis or it's
12 unlikely to be meningitis.

13 A. And my answer is no.

14 Q. So they could indicate meningitis. There
15 is nothing about the numbers or the times that
16 they're done that prevents them from being
17 associated with meningitis.

18 MR. BOUCHARD: Let me just object to the
19 form of the question. Do you mean in Gerry Ayre's
20 case or in general?

21 MR. ABERS: In Gerry Ayre's case.

22 MR. BOUCHARD: Now you're changing the
23 question. Before you were asking generally. Now
24 you're asking in Gerry Ayre's case.

25 MR. ABERS: Then I screwed up.

1 THE WITNESS: And my answer was also no.
2 There is no correlation between the sedimentation
3 rate and the presence or lack of presence of
4 meningitis.

5 Q. (BY MR. ABERS) But, what I am trying to
6 get clear in my own mind is, do they in any way
7 exclude the possibility of meningitis? In other
8 words, I am trying to get at if you're going to say
9 anything like the fact that the sed rate is rising
10 and the level that it's at tells me this wouldn't
11 be meningitis.

12 A. No, I am not going to make that
13 statement, because I have said I do not see any
14 correlation between the sedimentation rate and the
15 development or lack of meningitis.

16 Q. What other lab studies were done that
17 were significant to you while he was at Sunrise
18 Rehab, anything?

19 A. If you excuse me for a second. There was
20 a urinalysis done on 7/3/99. There was a blood
21 culture done on 7/12/99. There was a urine culture
22 done on 7/13/99.

23 Q. Would any of those tests you've mentioned
24 so far cause a sed rate to move in the way it's
25 moving?

- 1 A. Would any of those lab results --
- 2 Q. Would they be associated with the sed
3 rates that we're talking about?
- 4 A. There is no association.
- 5 Q. Okay.
- 6 A. I mean, if anything, just drawing labs
7 may cause your sedimentation rate to go up because
8 it's a response to inflammation.
- 9 Q. But not to the levels that he had.
- 10 A. No, that's correct. And he also had a
11 CAT scan that was ordered at the time that he was
12 there, as well as a CBC on 7/14.
- 13 Q. What is the date of the CAT scan?
- 14 A. The CAT scan, I believe, was either done
15 the 15th or 16th.
- 16 Q. That was done at Miami Children's.
- 17 A. That's correct.
- 18 Q. What's the thing you said after that?
- 19 MR. COCALIS: CBC on 7/14. I don't think
20 you mentioned sputum culture.
- 21 A. There is a sputum culture on 7/13 of '99.
- 22 Q. How long does it take to get sputum
23 cultures, since you mentioned that?
- 24 A. Would you clarify? How long does it take
25 to do them?

1 Q. No. How long does it take to obtain the
2 culture?

3 A. Well, it depends if the patient is
4 coughing or not. It usually would take a couple of
5 minutes.

6 Q. I mean, if a doctor says you need sputum
7 cultures times two before we start the antibiotics,
8 how long should it take to get those two cultures?

9 MR. COCALIS: Object to the form.

10 A. I don't understand what you're asking me.
11 The procedure itself takes one or two minutes.

12 Q. Do you have to wait until somebody
13 voluntarily coughs or can you say try and cough
14 something up and let's get a culture of it?

15 A. Depends on the situation, but you
16 typically will ask the patient to, you know, try to
17 cough up some sputum to get it.

18 Q. Go ahead.

19 A. There is a C reactive protein done on
20 7/14. There is another blood culture done on 7/14.
21 There is a culture of the eye done on 7/8. Then
22 there is a C reactive protein done on the 19th.

23 Q. Okay.

24 A. I don't know if we missed it or not, but
25 there is a blood culture on the 12th.

1 MR. COCALIS: You said that.

2 A. I think we had mentioned the one on the
3 14th already. Those are the labs that have been
4 ordered.

5 Q. Tell me about the C reactive protein.
6 What does that measure?

7 A. C reactive protein, just like
8 sedimentation rate, is an indicator of
9 inflammation.

10 Q. Caused by what?

11 A. By the same potential causes that I
12 described with the sedimentation rate.

13 Q. Post-op changes or infection.

14 A. Post-op changes, infection, trauma,
15 connective tissue disease.

16 Q. Can we rule out connective tissue disease
17 in Gerry?

18 A. I don't know that we can rule it out. I
19 think that it's unlikely.

20 Q. Trauma?

21 A. Depends on what your definition of
22 trauma. We know that the trauma of surgery, the
23 post-op, but, yes, we can rule out trauma.

24 Q. So, tell me about the C reactive protein
25 levels in Gerry.

1 A. C reactive proteins were elevated.

2 Q. How much?

3 A. Markedly elevated.

4 Q. The fact that the first reading was what
5 did you say?

6 A. I didn't say.

7 Q. Go ahead and say.

8 MR. COCALIS: Jeff, just for
9 clarification, are you talking about collection
10 dates or reporting dates?

11 MR. ABERS: I think they did them the
12 same day on both, didn't they?

13 MR. COCALIS: For C reactive? Actually
14 the report of the 19th was collected on the 17th.
15 That's why I am asking. He said the 19th, but it
16 was actually collected on the 17th.

17 MR. ABERS: Let's see what he finds.

18 MR. COCALIS: One on the 14th is reported
19 the 15th.

20 THE WITNESS: The C reactive protein on
21 7/14 was 92.

22 Q. (BY MR. ABERS) What's normal?

23 A. I am sorry, I apologize. That was the
24 sedimentation rate. I apologize for that.

25 It was 19.

1 Q. What date is this?

2 MR. COCALIS: Once you get into the lab
3 section, we're talking about the fourth page of the
4 labs, which is on page 136 and on page 152.

5 MR. ABERS: Why don't you give him yours.

6 MR. COCALIS: If you go in the order they
7 come, it's the fourth and sixth pages of the lab
8 section.

9 MR. BOUCHARD: We have them.

10 THE WITNESS: The first C reactive
11 protein is collected on 7/14/99 and the result was
12 19.05.

13 Q. (BY MR. ABERS) Is that normal?

14 A. No, it's not.

15 Q. What's normal?

16 A. SmithKline Lab it's less than .80.

17 Q. Is that significantly elevated?

18 A. That's what I said, yes.

19 Q. That indicates one of the two scenarios
20 you talked about earlier.

21 A. That is correct.

22 Q. Either infection or post-op changes,
23 reaction, whatever you want to call it.

24 A. It indicates inflammation.

25 Q. And the other C reactive protein was - I

1 think it's page 152.

2 A. Page 152 and this was done on the 17th.

3 And it's recorded as being 15.55.

4 Q. Which is still markedly elevated?

5 A. That's correct.

6 Q. Same explanation as to the reason why?

7 A. That is ongoing inflammation.

8 Q. Or infection.

9 A. There is ongoing inflammation that may be
10 from infection.

11 Q. Now, let me ask you to turn to page 54.

12 MR. BOUCHARD: He doesn't have them
13 numbered.

14 MR. ABERS: How can they not be?

15 MR. BOUCHARD: Earlier set. I got a set
16 without numbers and a set with numbers.

17 MR. ABERS: I thought they were numbered
18 from the first day. That was the presuit ones.

19 MR. LYNN: Don't say presuit.

20 Q. (BY MR. ABERS) Do you have that page in
21 front of you?

22 A. Yes.

23 Q. That's the nurse's notes on the 19th,
24 correct?

25 A. It's Variance Progress Notes.

1 Q. The nurse wrote these notes. Take my
2 word for it. She says she did, anyway.

3 Read this note on the 19th and tell me
4 what you think is going on with Gerry.

5 MR. BOUCHARD: From the top to the
6 bottom.

7 Q. You've read it before, I take it, today.

8 A. Yes, I have.

9 Do you want me to read it aloud?

10 Q. No. Read it to yourself.

11 A. What is going on is on the 19th, the
12 afternoon of the 19th, he is starting to feel sick
13 again. He has aches and not eating very well. The
14 reports of the cultures and the sedimentation rate
15 have been discussed with Dr. Tomenchok and he
16 decides to call Dr. Lin to discuss the bacteria
17 that grew from the blood culture and was considered
18 to be a skin contaminant.

19 Q. That's not what is causing this boy's
20 symptoms, is it?

21 A. In retrospect? No.

22 Q. I mean, forget retrospect. At that
23 moment in time, which I guess you're talking about
24 on July 19th at 2:00 -- Is that where you're
25 talking?

1 A. Yes.

2 Q. Where it says Dr. Tomenchok stated Strep
3 viridans was a skin contaminant, continue Bactrim
4 for ten days. Do you see that note?

5 A. Yes.

6 Q. That skin contaminant that he's talking
7 about, the Strep viridans, is not what is giving
8 Gerry these other symptoms that are being
9 discussed, is it?

10 A. That's correct.

11 Q. What kind of symptoms do you get from
12 Strep viridans?

13 A. In this particular case, if it was a skin
14 contaminant, you don't get any symptoms.

15 Q. Can we safely say that this note here
16 where Dr. Tomenchok stated that the Strep viridans
17 was a skin contaminant does not in any way reflect
18 any symptoms that Gerry would have, such as neck
19 pain, headache, fever, those kind of things?

20 MR. BOUCHARD: Object to the form of the
21 question. You're including things that weren't in
22 that note.

23 A. And you're asking me --

24 Q. What's the significance of Strep
25 viridans?

1 A. None. It's nonsignificant for the
2 purposes of this case.

3 Q. It has nothing to do with his medical
4 situation, then, correct, other than it's present?

5 A. Other than a contaminated culture, that's
6 correct.

7 Q. Let's go back to the question of what's
8 going on with Gerry on the 19th. You read to the
9 end of the page there?

10 A. Yes, I did.

11 Q. That takes us down to 2300 on the 19th.

12 A. He continues to not feel well. His
13 temperature goes up to 105 degrees. He is
14 vomiting, but remains alert and oriented. He is
15 given Tylenol and Motrin, as well as ice
16 compresses. And that eventually brings down his
17 temperature to 99.3.

18 By 2300 hours his temperature is down to
19 98.1.

20 Q. So just reading this note, what do you
21 think is wrong with him?

22 MR. BOUCHARD: Let me just object to the
23 form. In retrospect or based on what he sees in
24 just this record?

25 Q. I don't know how you differentiate

1 between those two things. You answer it any way
2 you want. Just tell me how you're answering it.

3 A. If I isolate this note and try to not
4 think of anything else, he has a fever and he's not
5 feeling good, he's vomiting.

6 Q. Have you ever gotten a call about a
7 patient like this, given what you just read here,
8 similar situation?

9 A. I'm sure I have received calls regarding
10 patients with similar symptoms.

11 Q. You've taken care of patients with a
12 scenario just like this.

13 MR. BOUCHARD: Object to the form.

14 A. Well, again, if we don't assume - if we
15 take out anything else, his previous history, not
16 knowing anything else, just this scenario, yes, I
17 have.

18 Q. And when you get a call like this, you do
19 what?

20 MR. BOUCHARD: Object to the form.

21 MR. LYNN: A call like what?

22 Q. Not a call. When you get a situation
23 like this, you do what? Let's say you come in to
24 see the patient and you read this page. You're an
25 infectious disease expert. I take it you just

1 don't put the chart down and walk away.

2 MR. BOUCHARD: Object to the form.

3 A. You're asking me to give an opinion as to
4 standard of care for the physicians and nurses
5 involved in this case, and I was not asked and I
6 have not drawn any conclusions regarding the
7 standard of care of the providers involved at this
8 time of the care received at this time.

9 Q. I never asked you about standard of care.
10 I never said one word about it. I just asked what
11 you do. What would you do given this situation?
12 You pick up the chart and read this. What do you
13 do?

14 MR. BOUCHARD: I object to the form of
15 the question.

16 A. Well, I first go and get more history to
17 find out why this patient is at HealthSouth
18 hospital. I find out what preexisting conditions
19 are. I try to find out what his course has been
20 before this first note. And if I am in the
21 facility and picking up the chart, I would proceed
22 with doing a physical exam and then determining
23 what I do next.

24 Q. See where it says 1900 on there?

25 A. Yes.

1 Q. If you just got to that point, what would
2 you do, where it says temperature 105, patient
3 alert, oriented; what would be your medical advice
4 at that point?

5 A. Again, it depends --

6 MR. BOUCHARD: Object to the form.

7 A. What information I was able to obtain up
8 to that point. There is a number of situations
9 that I can foresee here that may change my
10 approach.

11 If this is the only information I had,
12 again, I would, under ideal circumstances, go and
13 examine the patient and try to get a better history
14 to determine what my next step would be.

15 Q. Would you say give him some Motrin 600
16 milligrams and do nothing else?

17 MR. BOUCHARD: Object to the form of the
18 question.

19 MR. RADER: Join.

20 A. Based on just the information in this
21 page in this chart in a theoretical situation where
22 I wouldn't know anything else, I would want to know
23 what the physical exam was and what the history was
24 before giving this medication.

25 Q. Okay. There is no way you would just say

1 Motrin with no further medical advice, is there?

2 MR. BOUCHARD: Object to the form of the
3 question.

4 A. Again, in that theoretical situation and
5 assuming that the only facts that I knew is what
6 you have just given me on this page, I would
7 probably not just give him Motrin.

8 Q. You have got to see the patient at that
9 point, don't you?

10 MR. BOUCHARD: Object to the form of the
11 question.

12 A. Again, the ideal circumstances and in
13 this theoretical circumstance, yes.

14 Q. Well, that's what doctors are supposed to
15 do, right? They're supposed to go and see the
16 patient under the same situation here?

17 MR. BOUCHARD: Object to the form.

18 A. No, I don't know that I can make that
19 statement. You know, any doctor may have more
20 information than what is written in this specific
21 page that I am holding.

22 Q. If they don't have any more information
23 than that, is it fair to say they better get some?

24 MR. BOUCHARD: Object to the form.

25 MR. RADER: Join.

1 A. I think it's a reasonable statement. I
2 would want to know a little bit more about this
3 patient.

4 Q. Do you consider this advice here of
5 Motrin appropriate medical advice, given what
6 you're reading on that page?

7 MR. BOUCHARD: Object to the form.

8 MR. RADER: Objection.

9 A. I don't consider it inappropriate. You
10 want to try to get the fever down. Motrin 600
11 milligrams is an appropriate dose for reduction of
12 fever.

13 Q. It's not enough medical care, is it, to
14 meet the standard of care?

15 MR. BOUCHARD: Object to the form.

16 MR. RADER: Join.

17 A. As I said before, I have not given any
18 opinions regarding standard of care. And if you're
19 asking me theoretically just based on this page of
20 information, I would consider that I would need
21 more information.

22 Q. And that information would only be
23 obtained by you going to see the patient
24 face-to-face.

25 A. Not necessarily. Very often we get calls

1 from the emergency room, an outside clinic,
2 treating physician in another place, and many times
3 we have to make decisions or suggestions based upon
4 what is relayed to us by the staff that is actually
5 seeing the patient.

6 Q. And if the staff doesn't tell you what
7 you need to know, what do you do? Do you ask more
8 questions?

9 A. If there are certain issues that I want
10 to know, yes, you ask more questions or you - if
11 it's in a reasonable situation, may elect to go see
12 the patient.

13 Q. A reasonable situation is what?

14 A. Well, let me tell you what is a
15 reasonable situation. I get calls every day from
16 South Dakota, North Dakota, Nebraska where I cannot
17 physically see the patient.

18 Q. That's because you're in Minnesota.

19 A. That's correct. So that's what I refer
20 to if I'm not physically able to go see the
21 patient.

22 Q. Let me ask you something: Is this your
23 first time in Fort Lauderdale?

24 A. No, it's my second time.

25 Q. Do you know your way around here?

1 A. Not at all.

2 Q. I want you to assume that this doctor is

3 in town, in other words, in southeast Florida.

4 Okay?

5 A. Okay.

6 Q. That he's not separated like Rochester,

7 Minnesota to Yankton, South Dakota or something.

8 He didn't get a call from out of state or out of

9 area. Is there any reason he shouldn't have gone

10 to see this kid?

11 MR. BOUCHARD: Object to the form of the

12 question.

13 MR. RADER: Objection.

14 A. You asked me what would I do. You didn't

15 ask me what he or she would have done.

16 Q. Answer that first.

17 MR. APPLEBY: What doctor are you talking

18 about?

19 MR. ABERS: The doctor that got this call

20 at 1930, Dr. Lin.

21 MR. BOUCHARD: Object to the form of the

22 question.

23 MR. RADER: Join.

24 THE WITNESS: The first question is, if I

25 was able to, I would go see the patient.

1 Q. (BY MR. ABERS) Why?

2 A. Because I did not get enough information
3 to satisfy my clinical needs.

4 Q. And the reason you would go is because
5 that's what good medicine is, right? That's the
6 standard of care.

7 MR. BOUCHARD: Object to the form.

8 A. That's what is expected from a pediatric
9 infectious disease physician practicing where I do.

10 Q. And it would be expected from any doctor
11 taking care of a patient in this same situation,
12 infectious disease specialist or not, wouldn't
13 it?

14 MR. BOUCHARD: Object to the form of the
15 question.

16 MR. RADER: Objection.

17 A. I do not know what other information was
18 available to that physician. Again, if you're
19 asking me if this is the only information, what is
20 written here, that's the only information that a
21 physician had, I would say that at least in the
22 pediatric specialty you would want to obtain more
23 information, whether it's by phone or by physically
24 seeing the patient.

25 Q. And pediatric specialty, you mean a

1 regular pediatrician.

2 A. Yes, sir.

3 Q. From your reviewing this chart, do you
4 think there is any way this boy's medical care
5 could have been addressed differently?

6 MR. BOUCHARD: Object to the form of the
7 question.

8 MR. COCALIS: Join.

9 A. To be honest with you, I haven't looked
10 at it from that standpoint. If you ask me can
11 things have been done in a different way, certainly
12 there is many different ways of practicing medicine
13 appropriately.

14 When I was asked to look at this chart, I
15 looked from the standpoint of the standard of care
16 and causation as it applies to Dr. Ragheb. So, I'm
17 not able to give you an opinion at this time of
18 whether a different approach would have resulted in
19 a different outcome.

20 Q. What do you think?

21 MR. BOUCHARD: Object to the form.

22 A. I think that the -- Let me start: I
23 think this is a very tragic case. I cannot even
24 imagine what it would feel like to lose a child
25 under these circumstances. It's tragic.

1 And I believe that the type of meningitis
2 that this child had was a fulminate one, was where,
3 despite appropriate antibiotics, more likely than
4 not the outcome would have been the same.

5 It's easy to look at this in hindsight.
6 Maybe he shouldn't have had the surgery to start
7 with. Maybe some things could have been done a
8 different way.

9 But, do I see that a change in the
10 approach to this patient may have resulted in a
11 different outcome? I cannot honestly tell you that
12 more likely than not that would be the case.

13 Q. You don't think this tragedy could have
14 been avoided with a spinal tap done sometime before
15 the 20th?

16 A. No, I don't think that a spinal tap would
17 have saved this child's life.

18 Q. Do you think he deserved a chance to have
19 a spinal tap done and get treated?

20 MR. BOUCHARD: Object to the form.

21 MR. RADER: Objection.

22 A. Well, we need to clarify that a spinal
23 tap is not the treatment for this meningitis. I
24 mean, this patient could have received the right
25 antibiotics without a spinal tap and still very

1 likely would have had the same outcome.

2 You know, certainly, I mean, you know,
3 it would have been nice to see that the antibiotics
4 were started earlier and, if that had been the
5 case, we wouldn't be sitting here. But I don't
6 think the outcome would have been any different.

7 Q. So that's what we should tell this boy's
8 parents, that it would have been nice if they had
9 started them, but it wouldn't have made a
10 difference?

11 MR. BOUCHARD: Object to the form of the
12 question. Argumentative.

13 Don't answer that question.

14 Q. It would have been nice, but it wouldn't
15 have made a difference?

16 A. I have been instructed not to answer that
17 question.

18 Q. I am asking a different questions. Are
19 you telling me that starting the antibiotics would
20 have been nice, but it wouldn't have made a
21 difference anyway?

22 A. When I said it would have been nice, I
23 meant it wouldn't have us here in this room if the
24 antibiotics would have been started earlier; but,
25 yes, that's correct, it would more likely than not

1 not have made a difference.

2 Q. Why wouldn't we be in this room?

3 A. Because then you wouldn't have issue to
4 blame or claim that there was a mismanagement of
5 this patient.

6 Q. If they had started the antibiotics
7 earlier than the 20th.

8 A. If I understand, your case is revolving
9 around the fact that the antibiotics were not
10 started until the 20th. And, what I am saying is,
11 if they had been started on the 19th, then we
12 wouldn't be here because there wouldn't be that
13 argument that antibiotics may have made a
14 difference. That's all I am saying.

15 I am saying, you know, that I understand
16 that this is a very tragic situation and, you know,
17 certainly you want to hope in a patient like this
18 that everything that can be done was done.

19 That's my answer.

20 Q. Have you ever had one of your patients
21 die from meningitis?

22 A. Yes, I have.

23 Q. And was it a similar type of meningitis
24 that Gerry had?

25 A. I have had patients with meningitis due

1 to the organisms that Gerry had die, yes.

2 Q. Were you involved with their care for
3 some period of time before they died or were you
4 called in afterwards or what was the --

5 A. There has been different situations.
6 Sometimes I have been involved with them since the
7 time they came in the hospital and other occasions
8 we're involved later on as the course is
9 progressing.

10 Q. How many times has that happened?

11 A. That patients die from meningitis?

12 Q. Under your care.

13 MR. BOUCHARD: Object to the form of the
14 question.

15 You can answer.

16 A. Any type of meningitis?

17 Q. Bacterial meningitis.

18 A. Five or six times that I can think of.

19 Q. Over how long a period of time?

20 A. 14 years.

21 Q. And how many patients have you taken care
22 of with bacterial meningitis?

23 A. I don't know that number.

24 Q. Thousands?

25 A. Maybe hundreds.

1 Q. Are you aware of any studies or articles
2 or any kind of research of any type that suggests
3 information on the type of meningitis that Gerry
4 had and that intervention would not have cured it?

5 A. Yes, I am.

6 Q. Can you tell me what comes to mind?

7 A. Yes, sir. There is an article by Dr.
8 Michael Radesky, who evaluated or did a study or
9 looked at, I believe, 22 different studies
10 involving meningitis in which he came to the
11 conclusion that in fulminate meningitis, that's the
12 one that Gerry had, the timing of the
13 administration of antibiotics does not affect the
14 outcome.

15 Q. Did you know that he was involved in our
16 case?

17 A. No, I did not know.

18 Q. He gets involved often.

19 Go ahead. Anything else?

20 A. There is an editorial in the same journal
21 where this paper was published that --

22 Q. What journal was it?

23 A. I believe it was Pediatrics or it may
24 have been Pediatric Infectious Disease Journal. I
25 apologize, but I don't recall the exact reference.

1 Q. That's all right.

2 A. But there is an editorial by Dr. Fiegan
3 and Kaplan in which the same conclusions are drawn.

4 Q. Anything else?

5 A. No, sir.

6 Q. And I might have asked this earlier and I
7 apologize if I did.

8 Is there anything in the lab results at
9 either HealthSouth, at Plantation General, at
10 Memorial, that tells you this was a fulminate
11 meningitis that cannot be cured or are you relying
12 on just the clinical presentation?

13 A. No, you haven't asked that question and,
14 yes, there is laboratory data that this was a
15 fulminate meningitis.

16 Q. What is that?

17 A. It's based on the evaluation of the
18 spinal tap, of the fluid that was obtained on the
19 day that he died.

20 Q. Can you turn to that?

21 A. There are three different pages. The
22 first one is labeled CSF Gram's stain and culture.
23 That one shows few white blood cells, many
24 gram-positive cocci in pairs. Moderate
25 gram-negative bacilli and the culture grew three

1 plus streptococcus intermedius.

2 Q. Which tells you what?

3 A. Tells me what the fluid looked like under
4 the microscope and that the bacteria that grew was
5 this one that I have mentioned.

6 The second laboratory reference is a
7 serology sheet that states that the rapid test for
8 meningococcus was negative, for pneumococcus was
9 positive, for Hemophilus influenza was positive,
10 and for group B strep was negative.

11 Finally, third one looks at the cell
12 count of the CSF. It had 63 red blood cells and 18
13 white blood cells.

14 In addition, there are 20 cells that were
15 counted with 19 of them being segs and one was a
16 monobacteria.

17 Q. Tell me specifically what in those three
18 pages you have just looked at tells me that this
19 was a fulminate meningitis that could not be cured
20 by antibiotics.

21 A. I have not said that this was not cured
22 by antibiotics. I said more likely than not would
23 not have affected the outcome of this child.

24 What points me to that is the fact that
25 he had a meningitis with three different organisms.

1 More important than that is the fact that his white
2 cell count was only 18.

3 This is, first, a poor prognosis sign
4 and, second, tells me that the infection has been
5 so overwhelming and developing so fast that his CSF
6 has not been able to mount the appropriate
7 inflammatory response.

8 The fact that there are many bacteria
9 easily seen and you only have 18 white cells is
10 clearly indicative of an overwhelming fulminate
11 meningitis.

12 Q. Do you think that's possible at all
13 because he has been fighting an infection for two
14 weeks before that?

15 A. No.

16 Q. Why not?

17 A. Because, if he had been fighting this
18 infection for two weeks and, very specifically, if
19 he had been fighting a meningitis with these three
20 organisms for two weeks, as you are theoretically
21 asking, first of all, his white count would have
22 been markedly elevated, in the 1,000 to 10,000 or
23 even more range.

24 Second, the patient would likely not
25 survive if he had meningitis two weeks earlier.

1 Q. Well, what about some sort of infection
2 for two weeks earlier, is there any doubt that he
3 had some sort of infection for, let's say, a week
4 to ten days before he died?

5 A. No, there is no doubt that he had some
6 sort of infection. And that infection had no
7 bearing on the white count in this spinal fluid.

8 Q. What about being on antibiotics?

9 A. Not on the antibiotics that he was.

10 Q. It would make no difference on the lab
11 report? It would not have affected that?

12 A. You're asking me specifically about the
13 white count?

14 Q. Yes.

15 A. It wouldn't have affected it to this
16 range, no.

17 Q. So those are the three things that tell
18 you the answer to the question of the lab studies
19 that tell you this was a fulminate meningitis that
20 antibiotics would not have been able to take care
21 of it.

22 A. In addition to the clinical course, yes.

23 I apologize. There is one more lab that
24 suggests this is a fulminate meningitis.

25 The white count done at Columbia

1 Plantation General Hospital on 7/20/99 showed a
2 white count of 4.0, again indicating an
3 overwhelming infection that has - excuse me for
4 repeating the word, overwhelmed the normal immune
5 response of white cells.

6 Q. Did you ever think, while you were
7 reading through these records or have a thought
8 that you were surprised or anything about the idea
9 that no one talked about meningitis before he got
10 to Plantation General Hospital?

11 MR. BOUCHARD: Object to the form of the
12 question.

13 Q. I mean, when you're reading through these
14 records, did you ever have a thought, you know
15 what, I can't understand why nobody even thought of
16 it, even wrote the word down as a possibility?

17 MR. BOUCHARD: Object to the form.

18 A. I don't know that nobody thought about
19 it. It's certainly not reflected in any of the
20 notes. The word meningitis is not used in any of
21 the notes prior to the time he was admitted to
22 Plantation General Hospital.

23 Q. Didn't that strike a cord to you at all?

24 MR. BOUCHARD: Objection to the form.

25 A. In all honesty, I didn't look at this

1 case from that standpoint.

2 Q. Well, look at it from that standpoint and
3 tell me the answer.

4 MR. BOUCHARD: Object to the form of the
5 question.

6 A. Again, I don't know what they thought or
7 didn't think about it. At least it is not
8 reflected in the medical records and there was no
9 indication at that time before the evening of the
10 19th to consider meningitis.

11 Q. So you're telling me as you sit here that
12 when you read through these records, right up until
13 July 19th, you weren't sitting there thinking, you
14 know what, somebody must have thought about
15 meningitis. I mean, it must be here somewhere.
16 You didn't have that thought in your mind?

17 A. No.

18 MR. BOUCHARD: Object to the form.

19 Q. What other opinions do you have in this
20 case other than the ones you told us about?

21 MR. BOUCHARD: Object to the form of that
22 question.

23 Q. Have you come to any other opinions that
24 you're going to testify to?

25 A. Yes. I had rather clarify them, because

1 I don't know which opinions are you going on?

2 Q. Go ahead. You mean clarify and
3 summarize, is that what you want to do?

4 A. Absolutely.

5 Q. Feel free.

6 A. First of all, as I said, this is a tragic
7 case that in my opinion this patient died of
8 fulminate meningitis due to at least one organism
9 and likely three different organisms. And this was
10 bacterial in origin.

11 My second opinion is that at the time
12 that he was seen by Dr. Ragheb, he did not
13 exhibit symptoms or clinical findings of meningitis
14 and that the evaluation provided by Dr. Ragheb
15 was appropriate and fell within the standard of
16 care.

17 Number 3 is that the patient became
18 afebrile for a period of at least four days
19 following the office visit to Dr. Ragheb and that
20 his clinical course had stabilized and improved
21 during that time period.

22 It is also my opinion that on the 19th
23 the patient developed a fever and his symptoms
24 progressed with the development of overt,
25 overwhelming meningitis.

1 And, as I had previously mentioned, it is
2 my opinion that, more likely than not, the
3 administration of an antibiotic on an earlier time
4 on July 19th would not have changed the outcome of
5 this child.

6 Q. What about on July 18th?

7 MR. BOUCHARD: Object to the form.

8 Q. Antibiotics on July 18th.

9 A. Well, we cannot say one way or another.

10 I mean, if the bacteria at that time was not in his
11 central nervous symptom and that is the day that
12 the bacteria picked to go through the respiratory
13 tract and go and seed the brain, it is possible
14 that it would have made a difference in the
15 outcome. That would have meant that the meningitis
16 would not have developed. But, I am also of the
17 opinion that there was no indication to start
18 antibiotics on the 18th.

19 Q. If Vancomycin and Rocephin had been used
20 on the 18th or earlier, would this boy have died
21 from bacterial meningitis?

22 A. I don't think we can say one way or
23 another.

24 Q. Why not?

25 A. Because, again, we don't have a way of

1 determining which day and at what time did the
2 bacteria gain access to the central nervous system.

3 Q. Does Vancomycin and Rocephin work on the
4 bacteria before it gets to the central nervous
5 system?

6 A. They could have.

7 Q. If the bacteria was present that
8 ultimately caused him to have a fulminate
9 meningitis, wouldn't Vancomycin and Rocephin at
10 some point get rid of that bacteria if it's
11 administered?

12 A. Unfortunately not. These bacteria
13 usually live in the respiratory tract and in the
14 respiratory tract the amount of antibiotic you can
15 get frequently does not clear the colonization of
16 one's respiratory tract.

17 So, the administration of antibiotics
18 would not have decreased the colonization. If an
19 antibiotic had been on board in his blood stream at
20 the time in the second that the bacteria gained
21 access to the blood stream, it is possible that the
22 infection could have been prevented.

23 Q. And what's a reasonable period of time
24 before the 19th where this bacteria would have made
25 this transition?

1 A. A relatively short period of time.

2 Q. Like give me a reasonable medical
3 probability estimate.

4 A. I don't think I can give you a reasonable
5 medical probability, because we have no way of
6 determining this in a scientific way. I can tell
7 you, based on my understanding and knowledge about
8 the organism, it is likely that it occurred in a
9 matter of hours prior to the development of the
10 fever and the symptoms of overt meningitis.

11 Q. So that puts us sometime on the 19th?
12 That is what you're telling me?

13 A. I am just saying it's a wide range, but
14 somewhere between the 18th and the 19th it is
15 likely that this bacteria gained access to the
16 central nervous system.

17 Q. So, given that scenario that you just
18 told me, which is a good faith estimate by you, I
19 guess within reasonable medical probability, if he
20 had been started on Vancomycin and Rocephin on the
21 morning of the 18th, would that have addressed this
22 problem and cured it?

23 MR. BOUCHARD: Object to the form.

24 A. There is a number of factors involved
25 here. It's not just the administration of

1 antibiotics. It also may have to do with some
2 specific issues to the host, where this bacteria
3 gained access from. So it is certainly not a 100
4 percent situation.

5 Is it possible that administration of
6 antibiotics somewhere around the 18th or 19th would
7 have prevented the bacteria from seeding? The
8 answer is yes.

9 Q. Is it more likely than not, like 51
10 versus 49?

11 A. I don't think I could quantify it and I
12 don't think anybody could.

13 Q. Did you ever talk to Dr. Ragheb?

14 A. I do not know him and I have never talked
15 to him.

16 Q. You just read over his note on the 16th?

17 A. I read over his note on the 16th and I
18 read his testimony in deposition.

19 Q. You told us that earlier. But you read
20 his note on the 16th?

21 A. Yes, I did.

22 MR. ABERS: Okay.

23 MR. BOUCHARD: I need to take a short
24 break and see whether I or anyone else have
25 questions.

1 MR. ABERS: Sure.

2 (Discussion off the record.)

3 MR. BOUCHARD: That's it.

4 We'll read.

5 AND FURTHER DEPONENT SAITH NOT.

6

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8 (Signature of the Witness)

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CERTIFICATE

STATE OF FLORIDA

COUNTY OF BROWARD

I, TERESA F. DURANDO, RPR, Registered Professional Reporter, certify that I was authorized to and did stenographically report the foregoing proceedings on the 18th day of February, 2003, at Fowler White Burnett, 100 Southeast Third Avenue, Fort Lauderdale, Broward County, Florida; and that the transcript is a true record; and that said witness read the same and subscribed his name thereto.

I further certify that on the day of , 2003, I notified Mr. Bouchard that the deposition of ARMANDO CORREA, M.D. is now ready for signature.

I further certify that I am not a relative, employee, attorney, or counsel of any of the parties, nor am I a relative or employee of any of the parties' attorney or counsel connected with the action, nor am I financially interested in the action.

Dated this day of , 2003.

TERESA F. DURANDO, RPR,
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CERTIFICATE OF OATH

THE STATE OF FLORIDA

COUNTY OF BROWARD

I, the undersigned authority, certify that

ARMANDO CORREA, M.D. personally appeared before me

and was duly sworn.

WITNESS my hand and official seal this day

of , 2003

TERESA F. DURANDO, RPR,
Registered Professional Reporter
Notary Public - State of Florida
My Commission No.
Expires: