

IN THE COURT OF COMMON PLEAS  
MAHONING COUNTY, OHIO

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JAMES BERRY, et al.	)	
	)	
Plaintiffs,	)	
	)	
vs.	)	Case No. 87 CV 726
	)	
DR. R. KALAPOS, et al.,	)	
	)	
Defendant.	)	

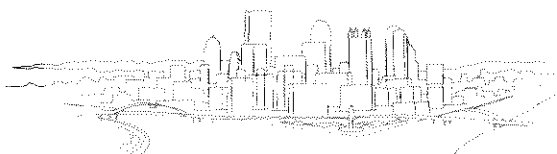
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DEPOSITION OF BENJAMIN HILLEL EIDELMAN, M.D.

a witness herein, called by the Plaintiffs for examination,  
taken pursuant to the Ohio Rules of Civil Procedure, by  
and before Cathyann Simmons, a Court Reporter and Notary  
Public in and for the Commonwealth of Pennsylvania, at the  
offices of the Department of Neurology, University of  
Pittsburgh, Scaife Hall, Pittsburgh, Pennsylvania, on  
Thursday, September 28, 1989, at 4:20 p.m.

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The Court Reporters  
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Pittsburgh, Pennsylvania 15222  
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COUNSEL PRESENT:

For the Plaintiffs:

Michael F. Becker Co., L.P.A.  
by Michael F. Becker, Esq.  
and  
Spike & Meckler  
by Stephen G. Meckler, Esq.

For the Defendant Dana P. Arneman, D.O.:

Weston, Hurd, Fallon, Paisley & Housley  
by Deirdre Henry, Esq.

For the Defendant Dr. Singh:

Harrington, Huxley & Smith  
by Eldon S. Wright, Esq.

For the Defendant Youngstown Osteopathic Hospital:

William E. Pfau, III, Esq.

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I N D E X

EXAMINATION

PAGE

by Mr. Becker 3, 105

by Ms. Henry 78

EIDELMAN DEPOSITION EXHIBITS

PAGE

No. 1 - Curriculum Vitae of Benjamin Hillel  
Eidelman, M.D.

4

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P R O C E E D I N G S

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BENJAMIN HILLEL EIDELMAN, M.D., one of the witnesses herein, having been first duly sworn, was examined and testified as follows:

EXAMINATION

BY MR. BECKER:

Q. Good afternoon, Doctor. Tell us your full name, please? State your last name for us and spell it?

A. Which one do you want first? The last name is Eidelman, E-i-d-e-l-m-a-n; first name is Benjamin; middle name is Hillel, H-i-l-l-e-l.

Q. Doctor, have you ever had your deposition taken before?

A. I have.

Q. I'm just going to review, then, what this is, since you're familiar with the process. This is a question and answer session under oath. I'm here to obtain some information, most importantly your opinions and the basis of those opinions. It's important that you understand the question that I ask. If you don't understand a question, tell me so,

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 and I'll be glad to rephrase or restate the question.

4 A. Okay.

5 Q. It's also important that you answer  
6 verbally, because it's difficult for this woman to  
7 pick up a head nod. Okay?

8 A. I will do so.

9 Q. But unless you indicate otherwise to me  
10 today, Doctor, I will assume that you fully  
11 understood the question that has been posed. Fair  
12 enough?

13 A. That is fair enough.

14 Q. All right. Are you an American citizen?

15 A. Yes.

16 (Whereupon, Plaintiffs' Exhibit No. 1  
17 was marked for identification.)

18 (Discussion off the record.)

19 Q. Doctor, I'm handing you what's been marked  
20 as Plaintiff's Exhibit 1. Can you identify that for  
21 us, please?

22 A. Yes. This is my Curriculum Vitae.

23 Q. Okay. Can you quickly take a look at that  
24 and tell me if it is accurate and if it is correct?

25 A. It's current, and as far as I know, it's

B. H. Eidelman, M.D. - by Mr. Becker

-----

accurate.

Q. Okay. I have just been handed this today, so I have not had an opportunity to look at this in detail. Are you Board certified?

A. I am.

Q. I see that here. How long have you been with the University of Pittsburgh?

A. Since May of 1978.

Q. And your present position here?

A. Associate professor of neurology.

Q. Do you have any administrative responsibilities?

A. I do.

Q. What percentage of your time is administrative?

A. On average, probably not more than one or two percent.

Q. Do you actively teach?

A. Yes.

Q. Do you have a private practice as well?

A. Yes.

Q. Are you a member of a group?

A. The University Neurological Associates.

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 Q. How long have you been a member of that  
4 group?

5 A. Since its inception, which is about three  
6 or four years ago. I'm not sure of the exact date.

7 Q. And I've asked you prior to this  
8 deposition if you have a file on this case, and  
9 you've answered in the negative; is that correct?

10 A. That is correct.

11 Q. So you don't have any notes or letters or  
12 anything you've written on this case; is that  
13 correct?

14 A. That is correct.

15 Q. When you --

16 MR. WRIGHT: He does have a letter  
17 confirming this deposition. I can get that and show  
18 it to you.

19 Q. That would be the only letter, and that  
20 would be from Mr. Wright; and the essence of the  
21 letter is telling you the time, place, location, et  
22 cetera?

23 A. That is correct.

24 Q. Other than that, no letters in your file;  
25 is that correct?

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 MR. WRIGHT: He doesn't have a file.

4 A. I don't have a file.

5 Q. You don't have a file today. Then it  
6 might be difficult for you to tell, but do you have  
7 a recollection of when you received contact, first  
8 contact on this case from Mr. Wright? I assume it  
9 was from Mr. Wright.

10 A. It was. It was some time ago. I can't  
11 give you a precise date, because that blurs in the  
12 past.

13 Q. I'm sorry. I didn't hear you, sir.

14 A. That blurs in the past.

15 Q. It blurs in the past. Can you give us in  
16 terms of years or months?

17 A. I think it was within the last two years.

18 Q. Within the last two years?

19 A. Yes.

20 Q. He's contacted you?

21 A. Yes.

22 Q. And, also, within the last two years, you  
23 have, at least verbally, over the telephone, given  
24 Mr. Wright your opinions; is that correct?

25 A. We've discussed the case over the

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 telephone.

4 Q. Has it been over a year or a year and a  
5 half since you've discussed the case?

6 A. No. We've had several discussions  
7 recently, I would say in the last couple of months.

8 Q. When did you form an opinion in this case,  
9 approximately how long ago?

10 A. I formulated an opinion fairly soon after  
11 receiving the records. Then the matter was left in  
12 abeyance for several months, and then the case was  
13 reopened or I reopened the case; and then I put it  
14 aside because there was no immediate action taken,  
15 and it was prior to this deposition when we knew  
16 that there was a deposition coming up that I reread  
17 the documents.

18 Q. We'll get to that in a moment. But you're  
19 saying that you formed an opinion on this case at  
20 least over a year ago?

21 A. When I first got the documents.

22 Q. Right.

23 A. Now, that would hinge on the time when I  
24 got them. I'm sure Mr. Wright could perhaps give  
25 you a time when he first sent me the documents.



1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 Q. Have you written any articles on the  
4 subject matter of Guillain-Barre syndrome?

5 A. No.

6 Q. Or spinal epidural abscess?

7 A. No.

8 Q. I don't have time to go through these  
9 publications, so can you tell me what has been your  
10 favorite subject matter? Is there a common theme  
11 throughout these?

12 A. Well, the majority of my publications have  
13 been done in the field of cerebral blood flow as  
14 pertains to the clinical and the experimental  
15 situations. Those have been interspersed with  
16 clinical reports relating to a variety of unusual  
17 clinical presentations that I've encountered over  
18 the course of my practice.

19 Q. CSF, do you have a particular interest in  
20 CSF? Is that what you're saying?

21 A. No. The cerebral blood flow, brain  
22 circulation.

23 Q. Oh, I'm sorry. Such as strokes, such as  
24 that?

25 A. As it would pertain directly to stroke.

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 Q. So if you met someone at a party or  
4 something like that and they asked you what your  
5 specialty is, you would probably respond on the  
6 nature of stroke; is that correct?

7 A. Not at all. I would respond and say I'm a  
8 clinical neurologist.

9 Q. But as far as where your keen interests  
10 lie, would it be stroke?

11 A. No. I regard myself as a general clinical  
12 neurologist with a research interest in cerebral  
13 circulation.

14 Q. And have you continued that research  
15 interest in cerebral circulation up until today?

16 A. Yes.

17 Q. I see here that you have also, in addition  
18 to journals, contributed at least in chapters in  
19 some textbooks; is that correct?

20 A. That's correct.

21 Q. And would that be the same subject matter?

22 A. No. It would be a different interest.

23 Q. Anything along the line of Guillain-Barre  
24 or acute spinal epidural abscess?

25 A. No.

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 Q. What was the assignment that you received  
4 from Mr. Wright when he first made contact with you?

5 A. In general terms, as far as I can recall,  
6 it would have been to evaluate the records and see  
7 if I could formulate an opinion in terms of the  
8 appropriateness of the treatment that was rendered  
9 by Dr. Singh.

10 Q. Incidentally, do you know Dr. Singh?

11 A. No.

12 Q. You never met him?

13 A. Not to my recall.

14 Q. You never had a telephone conversation  
15 with him?

16 A. No.

17 Q. And what records did you review before  
18 formulating your initial opinion?

19 A. I reviewed two sets of records, the  
20 records from the Youngstown Osteopathic Hospital and  
21 I reviewed some of the records from the Cleveland  
22 Clinic.

23 Q. Anything else?

24 A. I think that was the sum total of it.

25 Q. And prior to formulating your opinion, did

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 you look at Dr. Singh's deposition or Dr. Arneman's  
4 deposition?

5 A. No, I don't think I did. I'm pretty sure  
6 I didn't.

7 Q. And I understand you subsequently looked  
8 at Dr. Miller and Fisher's depositions, correct?

9 A. Not Fisher.

10 Q. Just Miller's?

11 A. Just Miller.

12 Q. Okay. And what have you reviewed recently  
13 in preparation for this deposition?

14 A. I've looked at the records of the  
15 Youngstown Osteopathic Association Hospital and, to  
16 some extent, the Cleveland Clinic records.

17 Q. Anything else, sir?

18 A. And I have reviewed a myelogram that  
19 pertained to his treatment at Youngstown Osteopathic  
20 Hospital and the myelogram that was done with CT at  
21 the Cleveland Clinic.

22 Q. Have you reviewed anything else in  
23 preparation for this deposition here today?

24 A. I have refreshed myself in terms of just  
25 the clinical presentation of the epidural abscess

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 largely on the basis of knowing that Dr. Miller was  
4 going to be involved. I reviewed the chapter that  
5 he wrote in Merritt's book.

6 Q. Anything else?

7 A. Basically, that's it.

8 Q. Have you looked at any journals?

9 A. No.

10 Q. What textbooks do you consider  
11 authoritative or prestigious in the field of  
12 neurology?

13 MR. WRIGHT: Authoritative or  
14 prestigious? Which?

15 A. In respect to what?

16 MR. BECKER: Either one.

17 A. In respect to what?

18 Q. In the field of neurology, general field  
19 of neurology.

20 A. There are no truly authoritative textbooks  
21 in the field of neurology. Because it's such a vast  
22 subject, the majority of the textbooks are fairly  
23 general and nonspecific and not truly authoritative.

24 Q. Okay. Let me ask you this, Doctor. What  
25 textbooks do you consider the best in the field of

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 neurology, specifically as to the field of  
4 Guillain-Barre syndrome and spinal epidural abscess?

5 A. There are no specifically good journals on --  
6 books on Guillain-Barre syndrome. Guillain-Barre  
7 syndrome is generally very poorly dealt with in most  
8 textbooks. There have been a number of articles  
9 over the years that have come down, particularly in  
10 light of the swine fluid epidemic some years ago;  
11 and, again, they were a little bit more  
12 comprehensive, but not strictly authoritative,  
13 because there's a lot of controversy in each  
14 different article.

15 Q. Which ones do you think would be the best?  
16 Let's start with Guillain-Barre, and then we'll talk  
17 about spinal epidural abscess, later?

18 MR. WRIGHT: The best, but not  
19 necessarily authoritative; is that what you mean?

20 MR. BECKER: That's right.

21 A. I would have to get my file out and give  
22 you those names, but there are a bunch of them.  
23 There's an article by -- I believe his name was  
24 Squash, who reviewed some of the aspects of  
25 Guillain-Barre, but not comprehensively. But there

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 are a whole bunch of articles that --

4 Q. Do you have a separate file on  
5 Guillain-Barre --

6 A. I do.

7 Q. -- and a separate file on spinal epidural  
8 abscess?

9 A. I don't have a file on spinal epidural  
10 abscess. I have a file on Guillain-Barre.

11 Q. Again, could I get a copy of that today  
12 before we leave?

13 A. I can let you have it if you want to. I  
14 have to talk to Mr. Wright about --

15 MR. WRIGHT: Well, if there are some  
16 articles that you want to make reference to, he can  
17 ask you about specific articles, and we can produce  
18 the journal citations for you. I'm not going to  
19 spend the time today to go through all that file.

20 MR. BECKER: No. I'm not going to go  
21 through it either today.

22 MR. WRIGHT: But I will be glad to do  
23 that.

24 MR. BECKER: I would like copies of  
25 his file on Guillain-Barre, and we'll go from there.

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 So we have it on the record that you're going to  
4 send me copies of the file --

5 MR. WRIGHT: I'll send you copies of  
6 whatever citations to articles that he has.

7 MR. BECKER: I would like the copies  
8 of the articles themselves.

9 MR. WRIGHT: Well, you can get them  
10 from a medical library.

11 MR. BECKER: We'll be happy to pay  
12 someone for the cost of making the photocopies.

13 MR. WRIGHT: The time is a little  
14 short, Michael.

15 MR. BECKER: I understand that.

16 MR. WRIGHT: I'm not sure whether I  
17 can get all of those things copied or not. I don't  
18 know how many articles there are. But I will get  
19 you the citations, and if there are a couple of  
20 articles that the Doctor says that he relied upon or  
21 he thinks are the better texts, I'll be happy to  
22 make you copies of those.

23 BY MR. BECKER:

24 Q. How many do you think are in there?

25 A. There are a whole bunch. But I think you



1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 understand that a couple years ago, I was involved  
4 in helping in the litigation when the swine flu  
5 epidemic came out, and they related to aspects of  
6 Guillain-Barre such as epidemiology and causation  
7 rather than specific clinical features.

8 Q. All right.

9 A. So many of those are not directly related  
10 to the clinical presentation.

11 Q. Okay. But you were citing me one off the  
12 top of your head that you found to be the best on  
13 Guillain-Barre that you --

14 A. No, I didn't say the best. There is one  
15 article that I know is in that file that deals with  
16 some of the clinical presentations. It's not the  
17 best.

18 Q. What is the best?

19 A. I have no idea. I'd have to go through  
20 that file and relook at it and then come up with an  
21 answer.

22 Q. Would you do that before the trial, the  
23 arbitration in the case on October 10 and be  
24 prepared to testify as to what is the best?

25 A. I will do that.

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 Q. And, of course, whatever you consider to  
4 be the best, you would also find it to be reliable,  
5 correct, or else you wouldn't refer to it as the  
6 best?

7 A. It may be reliable from certain  
8 perspectives, yes. But without having them, again,  
9 immediately at my memory, I can't answer that  
10 question.

11 Q. Back to authoritative textbooks, have we  
12 covered that subject? You don't find any general  
13 textbooks in neurology authoritative; is that  
14 correct?

15 A. That's correct, yes.

16 Q. What about journals in neurology, do you  
17 find any specific journals in neurology  
18 authoritative?

19 A. Again, it depends on what particular  
20 subject you're dealing with. You have to understand  
21 the general articles --

22 Q. Please understand that my questions are  
23 around two subject matters, Guillain-Barre and  
24 spinal epidural abscess.

25 A. There are many articles that appear in the

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 journals on Guillain-Barre; and some of them are  
4 good, and some of them are bad; and they may have a  
5 good and bad article in a particular journal. So  
6 it's not a question that I could accurately answer.

7 Q. Okay. I'd like to know something about  
8 your previous experience in medicolegal cases.

9 A. Sure.

10 Q. Tell me about it.

11 A. My first experience was several years ago  
12 in the early eighties when I was contacted by the  
13 U.S. District Attorney here in Pittsburgh to answer --  
14 I was asked if I would help in the defense of some  
15 of the litigations that arose out of the swine flu  
16 epidemic of 1976, and there were several cases that  
17 I was involved in.

18 Q. That was on behalf of the government?

19 A. That was on behalf of the government.

20 Q. Against the patients who were making the  
21 claim?

22 A. Against the patients.

23 Q. Okay. Anything else?

24 A. I was subsequently involved on behalf of a  
25 plaintiff in a Guillain-Barre case, and I appeared

B. H. Eidelman, M.D. - by Mr. Becker

-----

on her behalf.

Q. Where was that, Doctor?

A. That was in College Park, Pennsylvania.

Q. College Park?

A. College Park. That's where Penn State University is.

Q. What year was that, Doctor?

A. I think that was in early '78. I think it's February, '78. I'm sorry. '88. February of '88.

Q. February of '88?

A. I think so, yes.

Q. And what was the issue there? Failure to diagnose Guillain-Barre?

A. No. The issue was this lady had been vaccinated against flu and developed Guillain-Barre, and the question was whether informed consent and the cause and effect between --

Q. Causation?

A. Yes.

Q. You spoke to the causation issue?

A. Yes.

Q. Okay. Any other cases, Doctor?

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 A. Yes. I've done some testimony on behalf  
4 of the defense in West Virginia, and there was a  
5 case that was litigated in Wheeling, West Virginia;  
6 and there was a case brought against a doctor for  
7 allegedly causing a stroke through the  
8 administration of a Vitamin K, and the case was --  
9 the woman's name was Mrs. Shia.

10 Q. What year was that, Doctor?

11 A. Oh, that was probably two or three years  
12 ago. Again, I can't recall exact time. Two or --  
13 it was within the last two to three years.

14 Q. Any other cases, Doctor?

15 A. There was one other case. It went on for  
16 a long time. It was a case in the same area. Again,  
17 I appeared on behalf of the defense. That was --

18 Q. Subject matter?

19 A. Subarachnoid hemorrhage. And that started  
20 off a year before and just finished this year.

21 Q. Okay. Did you testify in that case?

22 A. I testified twice in that case, but the  
23 case was discontinued and then recontinued. So I  
24 appeared twice in that case. I appeared for the  
25 same law firm in Youngstown, I think last year or

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 the year before, in a case of medical care -- again  
4 for the defense -- in a case against a Dr. Green by  
5 a plaintiff in Youngstown. That case is ongoing.  
6 It has not --

7 Q. What is the subject matter?

8 A. That was a case of failure to diagnose a  
9 brain tumor.

10 Q. And who was the attorney that contacted  
11 you?

12 A. Mr. Blomstrom.

13 Q. Is that with Mr. Wright's firm?

14 A. Yes.

15 Q. Okay. And your other cases in West  
16 Virginia, was that a result of Mr. Wright's firm?

17 A. No, not at all. The one case was -- the  
18 attorney on the one case was Mr. Gillenwater, and  
19 the other one was a Mr. Noel Foreman.

20 Q. From what city?

21 A. They were both from Wheeling.

22 Q. So other than the Berry case, there is  
23 only one other case that you reviewed on behalf of  
24 Mr. Wright's firm; is that correct?

25 A. In terms of medicolegal issues, I would

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 think that's it that I -- no. There's one other one.  
4 Gianfrancesco, that I reviewed but I didn't give any  
5 testimony.

6 Q. And what was that case about?

7 A. That was a lady who developed some kind of  
8 problem with change of personality after an  
9 aesthetic procedure.

10 Q. Now, you kind of qualified that in terms  
11 of you said in terms of medicolegal relative to  
12 Mr. Wright's firm. Did you do any other work for  
13 Mr. Wright's firm?

14 A. I appeared on three other occasions in  
15 industrial kind of litigation where I've seen  
16 patients and given my opinion. I have not been in  
17 court on those.

18 Q. Have you had a relationship with  
19 Mr. Wright prior to him having contact with you on  
20 this case?

21 A. Yes, I have.

22 Q. And, specifically, how?

23 A. It was through his associate, a few  
24 previous associates, Ms. Katz, who used to be in  
25 their firm. She initially contacted me.

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 Q. And what case was that?

4 A. That was one of the industrial accidents.

5 Q. So we have you testifying once on behalf  
6 of the plaintiff, and that is on the issue of  
7 causation; and you've never testified on behalf of  
8 the patient relative to the issue of standard of  
9 care; is that correct?

10 A. That's correct.

11 Q. And we have you testifying four or five  
12 times on behalf of the defendant doctor; is that  
13 correct?

14 A. Yes.

15 Q. That's other than this case?

16 A. Yes. And there's one pending in New York  
17 I've already done a deposition for. That's, again,  
18 a subarachnoid hemorrhage. That's the sum total of  
19 it.

20 Q. The case in New York, is that also in  
21 behalf of a doctor?

22 A. It's an interesting case. I'm in sort of  
23 the middle. It's defending a doctor, but at the  
24 same time I am a witness against the hospital in a  
25 third-party action. So I'm really doing it both



B. H. Eidelman, M.D. - by Mr. Becker

-----

ways.

Q. Doctor, have you ever been a party yourself to a medical negligence claim?

A. I have been sued, but they've all been dropped before they've reached any degree of --

Q. Were any of them involving the subject matter of spinal epidural abscess and/or Guillain-Barre syndrome?

A. No.

Q. During the course of your review of this case, of the Berry case, was there something that, in the course of reviewing Youngstown Osteopathic records, that caused you some question or concern such that you had to contact Mr. Wright and say, I need a clarification on this issue or why did Dr. Singh do that? Did that ever come up?

A. No. Not as far as I can recall.

Q. And you never reduced to writing your opinion on this case --

A. No.

Q. -- whether formally or informally; is that correct?

A. That's correct.

B. H. Eidelman, M.D. - by Mr. Becker

-----

Q. What's a spinal epidural abscess?

A. Spinal epidural abscess is a collection of purulent material, pus, which lies within the spinal canal but separated from the spine itself by the dura, which is a layer of protective material around the spine.

Q. What causes it?

A. It's caused by an accumulation of pus as a result of a bacterial organism getting to that area.

Q. And what's the source, generally, of that bacterial organism?

A. Well, the source may be manyfold. It can come from blood; in other words, the person has an infection in the skin, lungs, and it gets blood-borne and then gets deposited in that region. It can be introduced there directly, if someone stabs an individual with a knife that's infected; sometimes after surgery, it might. Then it might retract there from an infection in the bone, osteomyelitis, and then it moves directly in relation to that.

Q. As far as the bug itself, what's the most common organism found in a spinal epidural abscess?

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 A. I'd have to refresh my mind on that.

4 Q. You can't answer that as you sit here  
5 today?

6 A. No. I'd have to look that up.

7 Q. If one had high blood sugar, does that  
8 increase one's risk for developing an abscess?

9 A. Explain to me what caused the high blood  
10 sugar? There are many causes of high blood sugar.  
11 I'd like to know what you mean by high blood sugar  
12 and the cause of that.

13 Q. I don't know the cause. Let's assume you  
14 see a patient that's admitted through the emergency  
15 room and the blood work reflects high blood sugar.  
16 What, if anything, is the significance of that?

17 A. Well, the most common cause of high blood  
18 sugar is diabetes, and if you're referring to  
19 diabetes, the answer is yes. A diabetic does have a  
20 higher risk of infection, because their resistance  
21 is low because their immune system is compromised.  
22 But there are other causes of high blood sugar.

23 Q. Tell me.

24 A. For example, if a person coming to the  
25 emergency room was dehydrated and they were given an

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 intravenous solution of sugar, it would push their  
4 blood sugar up.

5 Q. Anything else, sir?

6 A. Well, it could be caused by a tumor  
7 somewhere that excretes a certain substance that may  
8 change the blood sugar.

9 Q. But if it's from diabetes, that would be a  
10 concern to the physician, because that would  
11 increase one's risk for an infection?

12 A. That is correct.

13 Q. What are the classic and generally  
14 recognized signs and symptoms of spinal epidural  
15 abscess?

16 A. Well, we divide these into constitutional,  
17 local, and then the effects of the abscess on the  
18 spinal cord; and it usually will often occur in the  
19 situation where a person is ill, has a constitutional  
20 illness, is febrile, tired, lethargic, exhibits  
21 malaise, which is a general lack of strength; in  
22 other words, a constitutionally ill individual who  
23 may or may not have an overt sign of infection  
24 somewhere. The infection may be in the skin; it may  
25 be elsewhere in the system.

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 Q. Okay.

4 A. And then they'll develop some kind of pain  
5 in the back, and the pain can be quite, quite severe.

6 Q. Okay.

7 A. And then the pain, the localized or  
8 nonspecific pain is followed by what we call  
9 radicular pain. Irritation of the nerve roots can  
10 cause pain of a different kind, not localized but  
11 spreading in the distribution of the nerve root.

12 Q. Resulting in paresthesia?

13 A. No. No. That is just pain.

14 Q. Okay. What's after that?

15 A. And after that, after the epidural abscess  
16 expands or as the epidural abscess causes  
17 thrombophlebitis or inflammation of the arteries, it  
18 will cause cord softening, stroke of a spinal cord,  
19 and then paresthesia and weakness; paresthesia  
20 meaning a kind of numbness or sensory symptom will  
21 develop.

22 So the cord symptomatology can be due to  
23 either pressure on the cord as the abscess expands  
24 and pushes on the spinal cord or it can be caused by  
25 a secondary or what we call vascular compromise,

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2 -----

3 which is a stroke of a cord; and that leads to the  
4 disastrous complications of weakness, loss of  
5 bladder control, and loss of feeling in the body.

6 Q. Marked sensory changes?

7 A. Indeed, if the cord is severely  
8 compromised, sensory changes occur.

9 Q. Throughout the whole body or at least not  
10 in isolated parts of the body?

11 A. Can you break that down into --

12 Q. Well, as compared to Guillain-Barre where  
13 you might have sensory losses generally, if at all,  
14 with the hands and the feet?

15 A. Well, Guillain-Barre can suddenly start  
16 off with a tingling or a sensory loss in the feet.  
17 It doesn't essentially have to be dominant in the  
18 hands.

19 Q. It was a poor question. Let me reword it.  
20 As far as sensory losses with -- if you're going to  
21 have sensory losses with epidural abscess, it's not  
22 going to be so localized; it's going to be more of  
23 the lower part of the body?

24 A. It will be at the site below the  
25 involvement. In other words, if the epidural

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2 -----

3 abscess was in the neck, it would be from the neck  
4 down, if it reached that point.

5 Q. I gather that it's your opinion that  
6 spinal epidural abscesses are rather uncommon in  
7 occurrence?

8 A. They're not very frequent. They're  
9 distinctly rare.

10 Q. Have you ever encountered one, Doctor?

11 A. I have during the course of my life. I've  
12 worked in several situations where I've encountered  
13 them.

14 Q. Approximately how many, Doctor?

15 A. I would think half a dozen during the  
16 course of my how many years since I've been  
17 practicing. I've practiced as a neurologist since  
18 the early seventies.

19 Q. Although it may be rare in occurrence, you  
20 would acknowledge that it's a commonly known  
21 disorder in medicine?

22 A. Well, commonly known, it's difficult to  
23 know what you mean by that. It's commonly  
24 recognized.

25 Q. That's fine. And it's been commonly

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2 -----

3 recognized for a number of years in the medical  
4 community?

5 A. Well, the existence of epidural abscesses  
6 has been known for many years. It's not something  
7 that's a new development.

8 Q. 20 or 30 years?

9 A. I would think a lot longer. If you read  
10 some of the classic textbooks, I think you'd  
11 probably find this described.

12 Q. And this disease or entity of spinal  
13 epidural abscess is discussed in medical schools,  
14 correct?

15 A. It is, yes.

16 Q. And particularly during most residencies,  
17 it's broached at some time or another?

18 A. It would be indeed, yes.

19 Q. What's the proper way to diagnose spinal  
20 epidural abscess?

21 A. The appropriate way would be with a  
22 myelogram. That would be a useful way of doing it.

23 Q. Is that the gold standard, Doctor?

24 A. It may be changing now with the  
25 development and improvement in techniques, and I'm



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2 -----

3 talking about the presence of MRI. But we go back  
4 to when this -- this was '85. I think the MRI  
5 technology then hadn't quite advanced. The gold  
6 standard would have been the myelography.

7 Q. What kind of results of a spinal tap would  
8 point to a spinal epidural abscess?

9 A. There's probably no classic sign, because  
10 the actual infection lies outside of the spine.  
11 It's what's called a parameningeal infection abscess.  
12 In other words, the actual spinal fluid is not  
13 invaded by the bacteria. Some of the cells that  
14 escape from the adjacent infection may get in there.  
15 So there's nothing classic about it at all. I would  
16 not say that there is any specific CNS finding.

17 Q. I'm not asking for specifics. But I'm  
18 saying, generally, what would you expect to see by  
19 way of protein, by way of white cells, by way of red  
20 cells?

21 A. What I would expect to see is a rise in  
22 the protein and the presence of white cells in the  
23 spinal fluid, which would be a mixture of  
24 lymphocytes and maybe an occasional polymorph.

25 Q. Would you expect, generally, the ratio of

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2 -----

3 lymphocytes to polys or segs to be something in the  
4 range of 9 to 1 or 95 to 5?

5 A. I think it's variable. I've seen  
6 parameningeal infections where you may see very few  
7 cells and possibly get a ratio, and on the other  
8 hand, you may see an abundance of polymorphs. It's  
9 not something that's cast in stone. It varies.

10 Q. I understand it's not cast in stone. But,  
11 generally, the proportion with lymphocytes is  
12 predominant as compared with polys or segs, vastly  
13 predominant?

14 A. I would expect to find more lymphocytes.

15 Q. Can you agree with me that it would be  
16 vastly predominant, generally? I understand it's  
17 not cast in stone. But as to the literature, Doctor.

18 A. As a general term, you'd expect to find  
19 more lymphocytes. It has more lymphocytes.

20 Q. What about red blood cells?

21 A. That would not be a characteristic feature.

22 Q. What would that mean to you, a red blood  
23 cell count?

24 A. Well, there are several things a red blood  
25 cell could mean. Has the patient had a spinal tap

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 and a blood vessel been torn?

4 Q. Problem from the tap?

5 A. From the tap.

6 Q. Any other cause?

7 A. Is there some kind of hemorrhagic  
8 component? Is there some bleeding from what we call  
9 a hemorrhagic inflammation or a rupture of a blood  
10 vessel or a rupture of some kind of vascular  
11 structure? But, again, they're not a specific  
12 finding.

13 Q. Does red blood cell also mean irritation  
14 of the meninges?

15 A. No. It's more white blood cells that you  
16 find with that.

17 Q. All right. How do you confirm the  
18 diagnosis of spinal epidural abscess? I think we've  
19 already talked about that in terms of myelogram or --

20 A. Final confirmation would be going in and  
21 finding the pus and surgery.

22 Q. Okay. And I guess, then, that brings us  
23 to what is the appropriate treatment, and that's a  
24 decompression of the area?

25 A. That is the generally accepted treatment.

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 Q. And antibiotic therapy?

4 A. Antibiotics are used in conjunction.

5 Q. What's your opinion relative to the  
6 prognosis of one who has a spinal epidural abscess  
7 if there's diagnosis and timely intervention,  
8 surgical intervention just prior or within 24 hours  
9 after one develops paralysis?

10 A. That depends on what pathological entity  
11 has supervened in terms of causing the neurological  
12 deficit. There are two processes which I've already  
13 referred to in an earlier part of this deposition.  
14 There's the compression of the spinal cord by the  
15 collection of pus, and then there is the, what we  
16 call the ischemic myelopathy, or in lay terms, the  
17 cord develops a stroke as a result of compromised  
18 blood flow to the spinal cord. The latter, once  
19 that has occurred, even timely intervention,  
20 unfortunately, has no beneficial affect on; because  
21 you're talking about a loss of blood flow to the  
22 spinal cord --

23 Q. "The latter" being the compression or  
24 ischemia?

25 A. Ischemia. And once ischemia has developed

B. H. Eidelman, M.D. - by Mr. Becker

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and the patient has developed a total transverse myelitis type picture, surgical intervention, unfortunately, is not going to help the situation. If, on the other hand, the problem that the patient presents with is largely due to expansion of the axis, pressure on the cord, distortion of the spinal cord, timely intervention there can prevent the development of disastrous neurological complications.

Q. How do you tell whether you've got ischemia or the actual direct compression working at the time you examine a patient?

A. It's not possible to truly determine that with any degree of accuracy, and the best way would be the myelogram. But from a clinical perspective, if the patient presents to you and they have a total loss of function below the level of abscess and there's no bladder function, there's no motor function to speak of, there's a loss of sensory function, the likelihood of any return of function, no matter what one does, is extremely remote.

Q. What's the basis for that opinion, Doctor?

A. The basis of that opinion is that once one has a severe degree of involvement, it indicates

B. H. Eidelman, M.D. - by Mr. Becker

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either the cord has been severely compressed and remained compressed for some time and the prognosis of that kind of compression is not good with any kind of condition, particularly if it's acute; and the other one is that once the cord has suffered a stroke, that's usually irreversible.

Q. What's your authority for that, Doctor?

A. The stroke situation is, it's common knowledge that once there's been an ischemia to any structure for any period of time, it's not likely to reverse.

Q. Well, when you say "ischemia," that doesn't mean an infarction?

A. Well, I mean ischemia and subsequent infarctions, what I call -- ischemic necrosis. That is an irreversible situation.

Q. Okay. And how do you tell that you have ischemic necrosis? You're saying by the myelogram or by the symptoms? Are you saying that even if one is, by definition, if one has total sensory loss and paralysis, if he has this ischemic aspect --

A. No. If you listened to me earlier, I said either there's been significant and severe

B. H. Eidelman, M.D. - by Mr. Becker

-----

compression of the spinal cord.

Q. Right. Which is reversible.

A. If it's --

Q. If it's timely done.

A. If it's done timely. Or else there has been a secondary or an additional process, and that's the ischemia.

Q. Right.

A. Which is not reversible.

Q. Okay. Ischemia leading to infarction?

A. Yes.

Q. You can have ischemia and still have reversibility, correct?

A. If the ischemia has been present for -- there's total ischemia and it's dealt with and you can reverse the blood, a situation where you can restore the blood flow within, I'd say, six hours maximum.

Q. How do you know whether you have partial ischemia or complete ischemia resulting in infarction?

A. You have to rely on the clinical presentation or else examine the spinal cord, which

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2 -----

3 is not possible in a live patient.

4 Q. Right. But are you telling me that, given  
5 whatever clinical presentation, you still can't tell  
6 when you're looking at a patient and tell this is  
7 ischemia or this is compression or this is a  
8 combination of the two? Can you?

9 A. No. Not by looking at the patient. But  
10 if you examined the patient and you have some -- for  
11 example, if you have a patient who presents with a  
12 transverse myelitis, in other words paralysis from a  
13 certain level down -- in other words, loss of  
14 sensation, loss of bladder function -- and you do a  
15 myelogram on that patient and there's no evidence or  
16 very little evidence of compression of the spinal  
17 cord, then you have to assume that it's not the  
18 pressure on the spinal cord that's caused the  
19 problem but some other mechanism; and in a situation  
20 of an epidural abscess, the other mechanism which is  
21 known to occur is ischemia. So by a process of  
22 elimination after doing a myelogram, you can come to  
23 that conclusion.

24 Q. But can you cite me any authorities to  
25 support the position that -- I've asked you this



1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 before. I don't know if you've directly responded --  
4 any authorities that support the position that if  
5 you have this ischemia that once the paralysis has  
6 set in that it's irreversible? Can you point to a  
7 journal article or a textbook in neurology?

8 A. It's something which is a commonly held  
9 and it's common knowledge in our teaching circles  
10 amongst the neurosurgeons, and I dare say if I  
11 researched it, I could find something for you.  
12 That's the dictum that we teach to our residents, to  
13 our medical students, that the neurosurgeons will  
14 offer us when they approach such a problem. I mean,  
15 that's just one of the facts of medicine. It's one  
16 of the dogmas when we grow up.

17 Q. What's your opinion as to the  
18 reversibility prior to total paralysis with timely  
19 recognition and intervention?

20 A. If the problem is due to pressure,  
21 accumulation of pus, then the chances of  
22 reversibility are definitely there; and it depends  
23 how much pressure there's been, how long the  
24 situation has been in effect for. Very early on,  
25 when the earliest symptoms develop, that's the best

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 chance. If, for example, the inflammation around  
4 the spinal cord has led to thrombophlebitis and  
5 vasculitis and there is a process of ischemia and  
6 cord necrosis -- that's called death developing --  
7 even at that point in time, reversibility may not be  
8 the rule when you decompress.

9 Q. Well, do you have an opinion or will you  
10 have an opinion as to whether or not Jim Berry on  
11 November 9, 1985, when the paralysis, according to  
12 Dr. Singh, was rather set in, whether or not that  
13 was secondary to ischemia or secondary to  
14 compression, and if so, what's the basis of that  
15 opinion?

16 A. I believe that the lesion as described by  
17 Dr. Singh at that time was due to ischemia.

18 Q. Okay. Basis of that opinion?

19 A. The subsequent myelogram done at Cleveland  
20 Clinic some days later failed to show significant  
21 cord compression. The dye, as they did it, went  
22 around the cord in all directions; and the cord,  
23 while being a little displaced, was not to any  
24 extent compressed. So I could see no anatomical  
25 basis for a major compressive syndrome.

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 Q. Let's go over that again. The myelogram  
4 at the Cleveland Clinic reflected what, Doctor?

5 A. It showed displacement of the cord at the  
6 dye, the -- the contrast media is a better term --  
7 was actually -- filled the spaces around the cord in  
8 all but one tiny area, and there was no obvious  
9 distortion of the cord anatomy such as you would  
10 expect with something pressing against it, pressing  
11 into it.

12 Q. Well, an abscess can break off and spread,  
13 though; can't it, Doctor?

14 A. Yes. But that doesn't -- sure it can.  
15 But it's liquid, and it will take a plane in the  
16 area of least resistance, which is above and below  
17 the spinal cord.

18 Q. Or it can go into the spinal fluid itself?

19 A. An abscess can rupture through, eventually,  
20 into the spinal fluid and cause a meningitis. But  
21 this is not the situation that prevailed here.

22 Q. Any other explanation as to why the  
23 Cleveland Clinic myelogram wasn't so clearly  
24 diagnostic?

25 A. No. I think it was diagnostic in the

B. H. Eidelman, M.D. - by Mr. Becker

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sense that it did not show major cord compression. It did show a collection of material behind the cord and displacing it to one side, and that, in a sense, was important.

Q. Did you compare the films of the Youngstown Osteopathic Hospital to the films of Cleveland Clinic?

A. I compared them -- first thing is the myelogram that they did at Youngstown was done with Pantopaque, which behaves in a very different manner to the contrast material that they used at the Cleveland Clinic. I'm talking about the first myelogram. And the study, I didn't think, was very informative, because while it showed some obstruction, I didn't get any idea from that as to what the anatomical area around that obstruction was like.

They subsequently repeated the myelogram with Amipaque from above, which, while the study was somewhat less refined, again tended to confirm what the Cleveland Clinic wound up showing. In other words, they were able to get the dye around the cord. So there was no major compression at that point in

B. H. Eidelman, M.D. - by Mr. Becker

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time.

Q. Do you have any other explanation for why, other than the different types of contrast material, as to why the myelogram showed a blockage on the cord and why the Cleveland Clinic didn't show a blockage on the cord?

A. I think it's important, and I have information, that the Pantopaque being somewhat thicker and less likely to flow was caught up in that region on that basis. In other words, the first myelogram used an older form of contrast agent which behaves, as I said before, very differently to Amipaque and is, basically, inferior at demonstrating anatomical details.

Q. And the second myelogram is what material?

A. They use something called metrizimide or Amipaque.

Q. What's Guillain-Barre syndrome?

A. Guillain-Barre syndrome is a condition which is related to inflammation of a number of nerve roots, and the technical term is inflammatory polyradiculopathy; and what that means is the nerves as they emerge from the spinal cord run for a short

B. H. Eidelman, M.D. - by Mr. Becker

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distance before breaking up into their branches in that area. The distance from the spinal cord to their branching is known as the nerve roots, and these undergo inflammation and lymphocytic infiltration; and it usually occurs in the wake of some kind of antecedent infection. I'm talking about 10 days, maybe 3 weeks to 6 weeks after a common flu-like illness, maybe after a flu shot. It sets up an immune disturbance in the body which provokes the inflammation.

Q. What are the classic signs and symptoms of Guillain-Barre?

A. I avoid "classic signs." I think it's more accurate to state the more commonly seen signs. "Classic" refers to the ancient Greeks, and I think that's where it should be used, not in this situation. In medicine, things vary a lot. The commonly seen signs are a symptomatology characterized by tingling in the extremities and may be confined to the lower extremities, sometimes the upper extremities. This can be quite disturbing and followed shortly afterwards by the development of weakness which commonly ascends from the legs

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 distally, going more proximally involving the trunk  
4 muscles, the upper lung muscles, the muscles that  
5 control breathing, control swallowing, control the  
6 face, control the eye movements. So you have a  
7 situation of severe generalized paralysis as the  
8 condition evolves.

9 Q. What about sensory loss with  
10 Guillain-Barre?

11 A. Sensory loss can occur, and sensory loss  
12 can involve all the modalities of sensation, live  
13 touch, pinprick, vibration; and it often will be in  
14 the distal distribution, in other words, lower down  
15 on the extremities.

16 Q. Right. Is it generally accepted that if  
17 you have sensory loss with Guillain-Barre, it  
18 involves the gloves and sock areas of the limbs?

19 A. Yes. Glove and stocking. That's distal  
20 distribution. Yes.

21 Q. Okay. Isn't there generally a total loss  
22 of reflexes with Guillain-Barre?

23 A. Generally, but not always. There are  
24 exceptions to that.

25 Q. And generally, another exception, but is

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 the patient generally afebrile?

4 A. As a rule, there's no major constitutional  
5 component.

6 Q. Generally, the weakness affects most of  
7 the limbs, all the limbs?

8 A. It varies. It can start off in a  
9 distribution in the the lower limbs, remain confined  
10 to the legs, and then ascend a few days later to the  
11 upper limbs; and by the time you see the fully  
12 developed form, in most situations, all the limbs  
13 are involved. But the rate of evolution may vary  
14 from patient to patient.

15 Q. What about urinary retention with  
16 Guillain-Barre, Doctor?

17 A. That's something that's not -- that's less  
18 of a problem. It can occur in some situations.

19 Q. Would you agree with me that the  
20 literature reflects that urinary retention is  
21 generally rare in Guillain-Barre?

22 A. Yes. It's less common. It's not as  
23 common.

24 Q. What are the generally anticipated results  
25 after spinal tap with Guillain-Barre?



1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 A. Again, I'm going to ask you: When was the  
4 spinal tap done? Early in the illness, during the  
5 middle of term of the illness, or late in the  
6 illness?

7 Q. What do you define as "illness"? First  
8 paresthesia?

9 A. First symptoms, yes.

10 Q. When you say "first symptoms" --

11 A. The paresthesia.

12 Q. Let's assume within 24 hours of the  
13 paresthesia, what --

14 A. What will often be found in the early  
15 course of the disease --

16 Q. The early course?

17 A. -- would be a rise in the protein; or in  
18 some situations you may find nothing, and that's  
19 delayed for several days before the protein.

20 Q. Doesn't the literature generally reflect  
21 that the protein takes a few days to rise?

22 A. Sometimes what will happen is that the  
23 disease will have been evolving before the patient  
24 truly presents himself, and you may very well find  
25 proteins higher in that extent.

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 Q. Do you recognize that the literature  
4 generally says that generally a few days after  
5 symptoms present themselves is when you see an  
6 elevated protein?

7 A. Often, that will occur. But that's not  
8 invariable.

9 Q. I understand, Doctor. Go ahead.

10 A. And then, with this, there may be a  
11 variable number of cells in the spinal fluid which  
12 are called lymphocytes. They'll vary from zero to  
13 a few up to a hundred would be acceptable.

14 Q. Isn't Guillain-Barre known as the  
15 acellular disease; in other words, there is no  
16 parallel generally between protein and the white  
17 blood cells?

18 A. And that is what has generally been  
19 portrayed, but if you look at some of the writing on  
20 it, you will find that there are reports of cells  
21 being present in the spinal fluid.

22 Q. Some cells?

23 A. Some cells, yes; and they can be quite  
24 significant.

25 Q. But it's an exception to have cells with

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2 -----

3 Guillain-Barre; would you acknowledge that, Doctor?

4 A. It's more common not to have cells.

5 Q. That's fair enough. So it's more common  
6 not to have cells. Now, let's talk about the  
7 differentiation of the white cells for a moment,  
8 between the lymphs or the segs or the polys. What  
9 is more common? When you're talking about  
10 Guillain-Barre that shows some cells, what's more  
11 common?

12 A. The more common finding would be  
13 lymphocytes.

14 Q. Okay. Did I ask you if red blood cells  
15 can mean meningeal reaction by way of irritation?

16 MR. WRIGHT: Yes, he did.

17 A. Yes, I did.

18 Q. And did you answer that?

19 A. Yes, I answered that.

20 Q. Affirmatively, yes?

21 A. No. I said the red blood cells are more  
22 likely as a result of some kind of hemorrhagic  
23 inflammation.

24 Q. Okay. Doctor, moving away for a moment,  
25 quickly, to something called "differential diagnosis,"

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 tell me what that means?

4 A. It's a list of probable causes of the  
5 clinical syndrome that one puts out when one sees a  
6 patient with a particular presentation. In other  
7 words, you say, can it be one of the following? And  
8 that's based on the probabilities of what you think  
9 is likely to be causing this.

10 Q. What is a consulting neurologist, and what  
11 would you deem his responsibilities to be to the  
12 attending physician who requested the consult?

13 A. As I understand it, the consultant  
14 neurologist is a specialist and neurologist who  
15 provides expertise in the area of neurology to  
16 somebody in a different field, whether it be  
17 internal medicine or neurosurgery; and his  
18 responsibility is to either confirm or add to the  
19 initial diagnosis made by the referring physician.

20 Q. Can we agree that a physician has a duty  
21 to consider all potential diagnoses within his  
22 differential?

23 A. Yes.

24 Q. That's his responsibilities?

25 A. Yes.

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 Q. And can we agree that to meet the  
4 appropriate standard of care a reasonably possible  
5 diagnosis that can be life threatening or  
6 potentially permanently disabling ought to be ruled  
7 out within one's differential?

8 A. That's important, too.

9 Q. You would agree with that?

10 A. I would agree with that.

11 Q. And, of course, I guess it goes without  
12 question that the physician, whether they're  
13 consulting or attending, has to have a complete  
14 history to assist him in his diagnosis and the  
15 differential?

16 A. As complete a history as is possible to  
17 obtain from the patient, yes. That doesn't  
18 necessarily mean that the history that he gets is  
19 complete. Because a history is very subjective; and  
20 it will depend on the, to a large extent, on the  
21 patient's memory and his willingness to impart  
22 knowledge, and other psychological factors come in,  
23 as well.

24 Q. I forgot to ask you this, Doctor. You  
25 would agree that a spinal epidural abscess is a

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 medical surgical emergency, correct?

4 A. Yes.

5 Q. Now, since I don't have a report from you,  
6 I really don't know what your opinions are relative  
7 to standard of care by Dr. Singh. I think we've  
8 touched on the issue of causation already. Is there  
9 anything else you'd like to tell me about the issue  
10 that you feel that Mr. Berry's situation was  
11 irreversible by the time Dr. Singh saw him on the  
12 9th? I assume that's your position.

13 A. That is my position.

14 Q. Okay. Any other basis than what you've  
15 already told me and if you've forgotten anything?  
16 Anything else you want to tell me?

17 A. I think I've outlined the important  
18 opinions that I'm going to put forward.

19 Q. Let's talk about standard of care. What's  
20 your opinion of standard of care rendered by  
21 Dr. Singh?

22 A. Standard of care, on the basis of internal --  
23 if he made a diagnosis of Guillain-Barre, the  
24 standard of care in terms of that was appropriate if  
25 that patient did, indeed, have Guillain-Barre, what

B. H. Eidelman, M.D. - by Mr. Becker

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he did was appropriate. He did not, in retrospect, make the diagnosis of a spinal epidural abscess, and that clearly was the correct diagnosis; and the diagnosis of a -- I don't believe that not making a diagnosis, a correct diagnosis, deviates from the standard of care. Because medicine is not something that, as you know -- and you've heard this many times -- is not a precise science; and there is room for maneuvering, and there is a margin of error that, even with the best of intention and the best of care, you can't always foresee.

Q. But you would acknowledge if a spinal epidural abscess was within Dr. Singh's differential on the 9th, he should have taken steps to rule it out on the 9th, correct?

A. It depends how much emphasis he placed on it.

Q. Right. Right.

A. If he strongly thought of it, then he should have. On the other hand, he may have said, well, maybe this is a spinal epidural, but I really don't believe so and I'll see what evolves.

Q. I know we can't be certain, because we're

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 looking through the retrospectoscope. But we have  
4 to get some opinions here, Doctor, and I want to  
5 know if you think, in all fairness, that Dr. Singh  
6 should have had spinal epidural abscess within his  
7 differential on the 9th?

8 A. I believe that this -- it's easy to be  
9 critical, but I think there was enough evidence to  
10 suggest that that could have been a factor.

11 Q. So the answer to the question would be yes?

12 A. Yes.

13 Q. Okay. So we've established that he should  
14 have had spinal epidural abscess within his  
15 differential on the 9th, and we know that he didn't  
16 take steps on the 9th to rule it out, correct?

17 A. That is correct.

18 Q. And you've already acknowledged that a  
19 physician has a responsibility to rule out any  
20 potentially life threatening or permanently  
21 disabling conditions as the appropriate standard of  
22 care. Given all that, Doctor, you would acknowledge,  
23 then, that Dr. Singh, by failing to consider in his  
24 differential on the 9th spinal epidural abscess and  
25 by failing to take steps to rule it out, as we



1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 previously agreed he was supposed to do, that would  
4 be something less than the appropriate standard of  
5 care?

6 A. I agree that he failed to make the  
7 diagnosis, and I think that it, again, would depend  
8 on the particular flavor or the particular input  
9 that he got from the patient's clinical exam in  
10 terms of what he should have done at that night.  
11 It's --

12 Q. Doctor, I'm going to have her repeat that  
13 last question that I gave, and listen to it. See if  
14 you can directly respond to it. If you can, fine.  
15 If you can't, fine. But I'd like you to try to  
16 directly respond to that last question, which was  
17 somewhat lengthy, but --

18 MR. WRIGHT: That was a --

19 Q. Do the best you can, Doctor.

20 MR. WRIGHT: Read the question back.  
21 That's fine.

22 (Whereupon, the question was read by  
23 the court reporter.)

24 MR. WRIGHT: He gave an answer that  
25 was, in your view, not responsive, and let me just

B. H. Eidelman, M.D. - by Mr. Becker

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say that I think that the question is a little bit too broad. I think that when you say any potentially hazardous or whatever sequelae that might follow in giving a situation, you're really being so broad that it makes it difficult to pin this down and say that anything that might be dangerous to a patient should be always considered by a doctor within the standard of care, because that would depend on the circumstances of each case; and I think you're overly broad in your question, Mike. I just think it would be difficult for the Doctor to answer that.

BY MR. BECKER:

Q. Can you answer that question, Doctor, directly? Whether or not given your admission that a physician has a duty to rule out anything within the differential that might be life threatening or potentially and permanently disabling, given your already admission that Dr. Singh should have had within his differential on the 9th spinal epidural abscess, and given our total acknowledgement, even Dr. Singh's acknowledgement, that he took no steps to rule out spinal epidural abscess on the 9th,

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 given those facts, logically, Doctor, would you  
4 concede that Dr. Singh on the 9th rendered something  
5 less than the appropriate standard of care?

6 A. Given that scenario and the basis of the  
7 very precise terms that you've given me, I would say  
8 yes. But I think that does not necessarily reflect  
9 what truly happened at the time in terms of the  
10 clinical flavor that was imparted to Dr. Singh in  
11 encountering Mr. Berry.

12 MS. HENRY: Could you just read back  
13 that answer?

14 (Whereupon, the answer was read by  
15 the court reporter.)

16 Q. Thank you, Doctor. Doctor, would you  
17 agree with this, that the symptoms of lower limb  
18 weakness which turns into numbness and ascending  
19 paralysis is consistent with spinal epidural  
20 abscess?

21 A. Yes.

22 Q. Would you agree that the symptom of a  
23 fever of 102 degrees added onto those previous  
24 symptoms is also consistent with spinal epidural  
25 abscess?

B. H. Eidelman, M.D. - by Mr. Becker

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A. Yes. But at the same time, it doesn't exclude other conditions.

Q. And would you agree that the symptom of midthoracic back pain is also consistent with spinal epidural abscess?

A. Yes.

Q. And the symptom of loss of urinary control is also consistent with spinal epidural abscess?

A. It's consistent with pressure on the spinal cord, which is, again, consistent with spinal epidural abscess.

Q. And you agree that the symptom of full arm strength, although paralysis in the lower limbs, is also consistent with spinal epidural abscess?

A. You're not being precise enough. You have to say consistent with spinal epidural abscess at a particular level.

Q. In the midthoracic region? Fair enough?

A. Yes.

Q. And total lower limb sensory loss is consistent with spinal epidural abscess?

A. It is.

Q. And the spinal tap results of the first

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 spinal tap at Youngstown Osteopathic, which I'm sure  
4 you are familiar with, those are consistent with  
5 spinal epidural abscess?

6 A. Again, if I remember, there was something  
7 like 60-plus percent of lymphocytes, 37 percent of  
8 segs. Is that the one?

9 Q. Yes.

10 A. That would be consistent.

11 Q. Now, turning to Guillain-Barre, for a  
12 moment, would you agree that a temperature of  
13 102 degrees or higher is inconsistent with  
14 Guillain-Barre, generally, assuming no pneumonia has  
15 set in from the paralysis?

16 A. Well, that is the point I was going to  
17 make.

18 Q. Okay. Aside --

19 A. As a result of a constitutional illness  
20 that preceded or was a complication, yes.

21 Q. And would you agree that loss of leg  
22 strength without any type of loss of arm strength is  
23 inconsistent with Guillain-Barre?

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

25 Q. Okay. Fair enough. Can we agree that

B. H. Eidelman, M.D. - by Mr. Becker

-----

marked loss of vibratory sense in the lower extremities and the total extremities is inconsistent with, generally inconsistent with Guillain-Barre?

A. It's an unlikely situation, but not totally inconsistent with it.

Q. Would you agree that if an individual had a reflex preserved, that would be inconsistent with Guillain-Barre?

A. No.

Q. Would you agree that the spinal tap as we know that occurred on November 8, is that, generally, generally inconsistent with Guillain-Barre?

A. I would say yes.

Q. Doctor, would it be help you or would you factor in this information in deciding whether or not to put spinal epidural abscess within your differential if you knew a patient who had ascending paralysis, had history of abscesses, history of fistulas, or fissures, and for which he had surgery and had high blood pressure?

A. That would increase the suspicion.

Q. Moving it up on the index of suspicion?

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 A. It would increase -- yes.

4 Q. Were you aware that that was applicable to  
5 Mr. Berry at the time that he presented to Dr. Singh?

6 A. As far as I recall, it did not appear in  
7 the records.

8 Q. That would be something you would want to  
9 know?

10 A. Yes.

11 Q. Whose responsibility is it to take the  
12 history from the patient?

13 A. The physician who encounters the patient.

14 Q. But would the presence of a small lesion  
15 on one's abdomen that's been chronically draining be  
16 significant in your decision as to whether or not to  
17 include spinal epidural abscess within your  
18 differential for a patient who, again, presents  
19 themselves with ascending paralysis?

20 A. Where on the abdomen is it? I mean --

21 Q. I believe it was around the belly button.  
22 But I'm not certain of that.

23 MR. WRIGHT: I'm not sure that there  
24 was anything in the record about that. Is there?

25 MR. BECKER: Yes. Check the

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 Cleveland Clinic record.

4 MR. WRIGHT: I mean in the Youngstown  
5 Osteopathic record.

6 MR. BECKER: No.

7 MR. WRIGHT: I've never seen any.

8 Q. Would that be significant? Would you want  
9 to know that?

10 MR. WRIGHT: Saying it was there. If  
11 it was there then. You're assuming it was there  
12 then at that point.

13 MR. BECKER: Yes.

14 A. It would --

15 Q. Again, that would increase your suspicions?

16 A. It would increase my suspicions.

17 Q. And would the neurologist and the  
18 internist have a responsibility when a man comes in  
19 to their care who has ascending paralysis, given  
20 Mr. Berry's symptoms, to do a complete body  
21 examination, to look him over?

22 A. The internist would be the one who would  
23 be responsible for that. The neurologist would  
24 often concentrate on the neurological aspects of the  
25 medical exam and not necessarily -- if he had a good



1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 rapport and knew who he was dealing with in terms of  
4 the internist, it's quite acceptable to rely on his  
5 findings.

6 Q. It would be the internist's responsibility  
7 to bring that to the neurologist's attention if he  
8 so discovered something?

9 A. It would be the internist's responsibility  
10 to describe the general medical findings to the  
11 neurologist.

12 Q. Which would have included an abscess on  
13 his belly, a lesion?

14 A. It would include anything relevant to the  
15 presentation.

16 Q. And would a lesion that's been chronically  
17 draining, would that be relevant to this  
18 presentation?

19 A. It would be relevant, yes.

20 Q. If you were a neurologist, you'd want to  
21 know that from the internist?

22 A. I would like to have all the information  
23 from the internist. Not only that, but everything.

24 Q. That's something that, if the internist  
25 had discovered, he should have relayed to Dr. Singh,

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 correct?

4 A. I believe that should have been done.

5 Q. Okay. Consistent with the appropriate  
6 standard of care for an internist?

7 MS. HENRY: Objection.

8 A. Well, that's something that you'll have to --  
9 I'm not a judging internist.

10 Q. Fair enough, Doctor. And what would the  
11 significance of that be to you of a small lesion  
12 that had been chronically draining on one's abdomen?

13 A. Well, a small lesion that's been draining  
14 on an abdomen just suggests a focal area of sepsis,  
15 and that may be of no significance whatsoever or it  
16 may be indicative of something more widespread, like  
17 a septicemia with emboli to that area. It has many  
18 possible connotations. Could it be an inflamed  
19 insect bite? Could this person have some kind of  
20 neurological complication of an insect bite that  
21 could have done this? It doesn't necessarily point  
22 in one direction.

23 Q. Doctor --

24 MR. WRIGHT: Excuse me. Where did  
25 you find that on the Cleveland Clinic record? I

B. H. Eidelman, M.D. - by Mr. Becker

-----

mean the reference to that lesion. There must be some discrepancy in their record about that, because looking at their --

MR. BECKER: I'll show it to you later.

MR. WRIGHT: In terms of their physical examination, it doesn't -- the only notice of -- it says, "No recent infection aside from flu-like symptoms. No dental work. No upper respiratory infection or skin infection. Has chronic acne on back." That's what it says here. It may be in here, but I don't know where it is.

MR. BECKER: You can take my professional word, it is in there, and I'll find it for you. But I don't want to do it right now, and I'll let you know.

MR. WRIGHT: All right. Go ahead.

BY MR. BECKER:

Q. Doctor, maybe to save some time here, I've got a list of all the symptoms he has, and going through, we've talked about Guillain-Barre and spinal epidural abscess. Would you acknowledge that taking the whole clinical picture, by the time

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 Dr. Singh saw Mr. Berry, that that clinical picture  
4 was more consistent with spinal epidural abscess  
5 than Guillain-Barre?

6 A. The picture that he presented with was  
7 consistent, on my analysis, with what I would call a  
8 transverse myelitis, with some condition that would  
9 cause cessation of conduction or some cessation of  
10 function in the spinal cord at a particular level  
11 relating to where he found the cessation, of which  
12 there are many causes.

13 Q. And spinal epidural abscess falls in there --

14 A. Falls in there.

15 Q. -- but Guillain-Barre doesn't fall in  
16 there, generally?

17 A. No. But there are conditions in which  
18 Guillain-Barre may be a part of something called  
19 myeloradiculopathy where you get combinations of the  
20 Guillain-Barre and myelitis, as we call it.

21 Q. Let me see if we can move this along.  
22 Would you acknowledge that the total clinical  
23 picture, generally, is more consistent with spinal  
24 epidural abscess, everything considered in your mind,  
25 as compared to Guillain-Barre?

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 MR. WRIGHT: In retrospect? Is that  
4 what you mean?

5 Q. On the 9th, at the time Dr. Singh saw him,  
6 generally?

7 A. The picture is a little more like what I  
8 would call a transverse myelitis, of which one of  
9 the causes would be epidural abscess.

10 Q. Thank you, Doctor. I want to turn back to  
11 November 8, 1985. That's the day of Mr. Berry's  
12 admission to the hospital. As you know, Dr. Singh  
13 did not see him until the 9th; and there's going to  
14 be some dispute here as to what was relayed to  
15 Dr. Singh on the evening of the 8th, and I'd like to  
16 ask a few questions about what you think the  
17 appropriate standard of care is for a neurologist  
18 who's called on for consultation who's not in the  
19 hospital and receives a call essentially saying that  
20 the patient has certain signs and symptoms, marked  
21 weakness, ascending paralysis with the spinal fluid  
22 results being relayed, or maybe just saying that the  
23 spinal fluid results are somewhat abnormal. Do you  
24 think a neurologist has a duty to promptly respond  
25 that evening?

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 A. It depends on how much faith he has in the  
4 referring doctor. In other words, if he has a good  
5 rapport with that doctor, knows of his capabilities  
6 in terms of physical diagnosis, then it's  
7 appropriate to give advice by telephone. That's the  
8 way we all behave. It depends entirely on what  
9 flavor was imparted, what sense he got in terms of  
10 the urgency of the situation, of --

11 Q. Well, let me just ask you this, Doctor.  
12 You're at home. You get a call from an ER doctor.  
13 You're the neurologist on call. They say, we've got  
14 a man in here. He's got ascending paralysis, marked  
15 sensory changes, and abnormal CSF.

16 MR. WRIGHT: I object to -- wait a  
17 minute. Stop right there. Because, at this point,  
18 I don't know that there is any evidence in this case,  
19 unless you can point it out to me, that Dr. Billak  
20 or Dr. Arneman called Dr. Singh. There's no  
21 evidence at all.

22 MR. BECKER: If you look at Page 28  
23 and 29 of Dr. Singh's deposition, he restates as to  
24 what was said. I'm not saying that it was  
25 Dr. Billak or what doctor called or what person

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 called. I'm --

4 MR. WRIGHT: Nobody called him from  
5 the emergency room. You indicated that. That's not  
6 the point. The point --

7 Q. All right, Doctor. You get a call.  
8 Someone's recently been admitted to the hospital.  
9 You're the neurologist on call. You know that  
10 there's an ascending paralysis. You know there's  
11 marked sensory loss. You know that the spinal tap  
12 results are as we have it here. Are you going to  
13 tell me that you would not respond to the hospital?

14 A. No. You said, initially --

15 MR. WRIGHT: Objection. Wait. What  
16 he would do is immaterial. What you want to know is  
17 what the average practicing neurologist would do  
18 under the same or similar circumstances.

19 MR. BECKER: But I'm going to ask my  
20 question. You can enter an objection.

21 MR. WRIGHT: Well, I did.

22 A. Would you just change your question? You  
23 said the spinal fluids are abnormal. Now you just  
24 said spinal fluids as are recorded here. Which one  
25 do you want me to answer to?

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 Q. Well, Dr. Singh did not state that he knew  
4 that, specifically, the spinal fluid was told to him.  
5 So assuming that he was simply told that the spinal  
6 fluid was abnormal, you would agree that the  
7 responsibility of the neurologist is to get the data  
8 from the spinal tap results, correct?

9 A. That would be one of the things to do.

10 Q. So assuming -- and that's the appropriate  
11 standard of care. If someone calls you and says I  
12 have, an abnormal spine fluid, you're going to say,  
13 well, what is it, right?

14 MR. WRIGHT: Objection. There is no  
15 evidence that he was aware of that during that  
16 evening.

17 MR. BECKER: Okay.

18 Q. Correct? So assuming that you make  
19 inquiry consistent with the appropriate standard of  
20 care and that information is relayed to you, the  
21 specific information or data from the first spinal  
22 tap is relayed to you, would you agree with me,  
23 Doctor, that the appropriate standard of care for  
24 any reasonably competent neurologist is to respond  
25 to the hospital under that scenario?



1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 A. Again, I don't know what exactly was  
4 conveyed to Dr. Singh. I'm not talking about the  
5 spinal fluid. I mean, what was told to him in terms  
6 of the patient's overall status? If this was given  
7 to him and it sounded exactly like a Guillain-Barre  
8 and he, from the phone, had no idea that there was a  
9 transverse myelitis or some transverse process going  
10 on, then he obviously would respond in different  
11 terms to a picture presented to him which suggested  
12 that this guy's got a cord compression.

13 Q. He told me that he had marked weakness,  
14 some sensory symptoms and reflexes were depressed,  
15 and the spinal fluid revealed increased proteins and  
16 some cells.

17 A. Okay. The general picture as presented  
18 there is very typical of a Guillain-Barre, and if  
19 the emphasis was, again, how many cells, they might  
20 say -- it depends, again, how specific the person  
21 relaying that information was.

22 Q. But there's a duty and responsibility of  
23 the on-call neurologist to elicit this information,  
24 correct?

25 A. Well, assuming somebody volunteered that

B. H. Eidelman, M.D. - by Mr. Becker

-----

there's just a few cells there and they weren't very specific about it and you got the impression that there was a nonspecific cellular reaction, under those circumstances, it's appropriate to make the diagnosis of Guillain-Barre.

Q. You don't think it's appropriate to elicit more information?

A. Well, again, it depends on how much was given to him and how much of the clinical picture was portrayed.

Q. Right.

A. You're asking a question which is difficult to answer, because we're talking hypothetically.

Q. Well, it is hypothetical in a way, Doctor. But I have to understand what truly is an on-call neurologist's responsibility. If he's called at night at home and we got a problem, that on-call neurologist has a responsibility to do one or two things. See if you agree with me. One, either come to the hospital and make his own clinical analysis, correct?

A. That is correct.

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 Q. Or, two, make damn well sure that he gets  
4 a complete, accurate, detailed explanation of the  
5 exact scenario and situation of the patient before  
6 he makes that determination to stay home and wait  
7 till the next day, correct?

8 A. Correct.

9 Q. Doctor, what are you charging me for your  
10 time here today?

11 A. \$200 an hour.

12 Q. And is that the same thing you charge  
13 Mr. Wright?

14 A. For depositions, yes.

15 Q. You've had an opportunity to review  
16 Miller's deposition?

17 A. Yes.

18 Q. Is there anything in Miller's deposition  
19 you would take strong issue with?

20 MR. WRIGHT: If you want to be  
21 specific, you can ask him. I think you have to --

22 MR. BECKER: I will.

23 Q. But anything that jumps out from your  
24 recollection?

25 A. He made an issue of the presence of a

B. H. Eidelman, M.D. - by Mr. Becker

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reflex being not in keeping with Guillain-Barre. I think he mentioned the left knee reflex. I don't think I would place that sort of emphasis on it.

Q. Anything else, Doctor, that jumps out at you?

A. Not specifically that I can think of at this point in time.

Q. Anything about reviewing his article that causes you some concern?

A. I think his article is just reflective of what I think is generally accepted as the -- I'm talking about his article in the Merritt's textbook as being reflective of what is generally regarded as a clinical presentation of spinal epidural abscess.

Q. Is there anything from his article that you find supportive of your position --

A. Yes.

Q. -- on causation?

A. Yes. He made mention there of the vascular reflex of an inflammation and the stroking of the -- the ischemia of the cord as being a major factor in causation that I would agree with for that.

Q. One last thing, Doctor, and this is just

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 out of the blue. I came across something called the  
4 Queckenstedt test. Can you tell me what that is?

5 A. You're getting back to old-time neurology.

6 Q. Maybe that's why no one mentioned that to  
7 me.

8 A. Well, it's not commonly done much, talked  
9 about much now. When you do a spinal tap, you put a  
10 manometer in and you measure the pressure, and you  
11 can see if there's any continuity of flow by getting  
12 the patient to do maneuvers that will get the  
13 pressure to rise. Cough, you can pull on the back  
14 of his neck; and that will increase the venous  
15 pressure, and the spinal fluid pressure will go up.  
16 So you have a guy there lying down, and you have the  
17 pressure just like on a regular manometer; and you  
18 push on the abdomen, and the pressure goes up. If  
19 that doesn't happen, that suggests that there's a  
20 lack of continuity somewhere along the spinal cord.

21 Q. It gives you an idea of a block in the  
22 subarachnoid space?

23 A. It's very, very crude.

24 Q. It's not well accepted today?

25 A. Well, it's not accepted. It has a lot of

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 fallacies and is a test that is not very reliable.

4 MR. BECKER: Pass. Thank you, Doctor.

5 MR. PFAU: I don't have any questions.

6 MS. HENRY: I have some.

7 EXAMINATION

8 BY MS. HENRY:

9 Q. Doctor, I represent Dr. Arneman, who's the  
10 internal medicine physician involved in this case.  
11 Have you been asked to render any opinions about  
12 Dr. Arneman's care of Mr. Berry?

13 A. My attention has been focused on Dr. Singh,  
14 and I've not specifically been asked to do that.

15 Q. Okay. You are aware that Dr. Arneman's  
16 area of medical expertise is internal medicine?

17 A. I know that.

18 Q. Would it surprise you to find that  
19 Dr. Arneman or an internist practicing 28 years in a  
20 moderate-size community, Midwestern community with a  
21 community hospital has never seen a case of spinal  
22 epidural abscess?

23 A. It would not surprise me.

24 Q. Would it be fair to say that  
25 Guillain-Barre syndrome is a medical condition which

1 B. H. Eidelman, M.D. - by Ms. Henry

2 -----

3 falls more within the expertise of a neurologist  
4 than an internal medicine physician?

5 A. The final --

6 MR. BECKER: Objection. You can go  
7 ahead and answer, Doctor

8 A. The ultimate diagnosis, yes. But very  
9 often these patients will present in an emergency  
10 room with an internal medicine person first, because  
11 they being the primary care physicians, often the  
12 primary care physician will refer that patient to a  
13 neurologist.

14 Q. And it may occur that the internal  
15 medicine physician, based on his knowledge in  
16 internal medicine, might think it's a Guillain-Barre,  
17 but upon referral to the neurologist and review of  
18 the case and the patient by the neurologist, he may  
19 determine that it is not a Guillain-Barre syndrome?

20 A. The neurologist, with his added expertise  
21 in the area, may be able to offer some additional  
22 information which may change the diagnosis. That's  
23 an accepted principle in referral medicine.

24 Q. Would it be appropriate to call in a  
25 neurologist if a diagnosis of Guillain-Barre is

B. H. Eidelman, M.D. - by Ms. Henry

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considered by an internal medicine physician? It would be appropriate to call in a neurologist?

A. Yes.

Q. Once a neurologist is called in on a case where there is an obvious neurological problem, would it be fair to say that the neurologist assumes the primary care for the neurological aspects of the patient's care?

A. It depends upon the traditions of that hospital. There are times when a neurologist is called in, renders an opinion, and then the treatment is carried out by the primary doctor. He acts as a consultant, not assuming primary responsibility.

Q. But in this particular case, Dr. Singh did not do that; he continued caring for this patient after his initial consultation.

A. I'm not sure what the policy of that particular hospital is, whether he was called in and was required just to render an opinion or he was asked to continue with follow-up care, and that is often on an individual basis.

Q. So you would say it depends on the way the



1 B. H. Eidelman, M.D. - by Ms. Henry

2 -----

3 the physicians relate with each other in the  
4 hospital?

5 A. Yes.

6 Q. And if the internal medicine physician  
7 felt when he called in a neurologist to care for the  
8 patient that he was only going to care for his  
9 medical conditions and the neurologist would care  
10 for the neurological conditions and they were aware  
11 of that working relationship, then it would be the  
12 neurologist's obligation to care for him  
13 neurologically?

14 MR. WRIGHT: I object. You're being  
15 so general.

16 MS. HENRY: Fine.

17 MR. WRIGHT: I think that's a little  
18 unfair based upon some of the facts we have in this  
19 case and involving the actual hands-on care of  
20 Dr. Arneman subsequent to the 9th of November. So,  
21 I mean, I don't think that's a fair question.

22 MS. HENRY: Would you read him back  
23 the question and see if he can answer it?

24 (Whereupon, the question was read by  
25 the court reporter.)

B. H. Eidelman, M.D. - by Ms. Henry

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A. If the policy is such and it was clearly stated that once a patient is referred by an internist to a neurologist that the neurologist should continue with the neurological aspects, if that is what truly has been established, then I think it would be fair to say that the neurologist should continue that. But it varies so much within hospitals and from hospital to hospital that I don't think I can accurately give an opinion about that.

Q. So that the decision, for example, to do the myelogram in this particular case was made by Dr. Singh?

A. Right.

Q. That would be part of the neurological care of this patient?

A. That would be the advice that he rendered to the internist who would then -- I'm not sure how myelograms are done at that hospital. But what would happen, for example, in our practice, would be I would give an opinion, suggest a myelogram be done, and the internist would then refer the patient to radiology who would then take care of the myelogram. It would still be primarily under the care of the

B. H. Eidelman, M.D. - by Ms. Henry

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referring internist, unless there was a specific request for transfer to the neurology service.

Q. Do you know who did the myelogram in this case?

A. I don't know who specifically did it.

Q. Did Dr. Singh do the myelogram?

A. I thought he may have from the way the reports were written, but I'm not sure that he did. I don't know.

Q. Would you consider a telephone order by a consultant as to particular care to be followed by the nursing staff during the evening to be an indication that the consultant has already involved himself in the care of the patient as to the neurological-related conditions?

A. Again, what is the hospital policy? What may happen is that the consultant may give a suggestion of an order and it requires co-signing by the internist or whoever else is involved. I don't know how the hospital instructs in that respect.

Q. In this particular case, there's an 11-8-85 telephone order by Dr. Singh which is then signed by Dr. Singh. Would that indicate to you

B. H. Eidelman, M.D. - by Ms. Henry

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that he has entered into the care of this patient,  
based on this --

A. What is that?

Q. It's a nurse, the R.N., telephone order.

A. That would suggest that he has.

Q. That he has entered into the care of the  
patient neurologically?

A. Yes.

Q. If you were contacted by a nurse at  
7 o'clock p.m. indicating marked weakness, some  
sensory symptoms, depressed reflexes, and that an  
internal medicine physician had requested you as a  
neurologist to do a consult and that he thought it  
was a Guillain-Barre syndrome, do you have an  
opinion as to whether the physician should have seen  
the patient immediately based on that information?

A. Again --

Q. The neurologist?

A. Just on that information alone in a stable  
patient, if the patient is in that situation where  
he would be well observed, it should be acceptable  
to see the patient at a later stage.

Q. If this was at 7 o'clock at night, what

1 B. H. Eidelman, M.D. - by Ms. Henry

2 -----

3 time do you feel would be acceptable to see the  
4 patient the next morning as a neurologist?

5 A. As soon as feasible and depending upon  
6 what other emergency situation has arisen.

7 Q. If you received the same phone call saying  
8 marked weakness, sensory symptoms, depressed  
9 extremities, diagnosis by an internal medicine  
10 physician of Guillain-Barre, and request for a  
11 consult and that a spinal fluid be performed, would  
12 you feel it would be appropriate standard of care to  
13 ask specifically the results of the spinal fluid?

14 A. It would be important to know what is in  
15 that spinal fluid.

16 Q. Would you want to know how many cells  
17 there are?

18 A. Yes.

19 Q. And why?

20 A. It would be important to know from the  
21 spinal fluid what the potential diagnostic issues  
22 are. But, again, I would like -- it would be  
23 important to know who gave that information, how it  
24 was given. One could be misled by the manner in  
25 which information was given.

B. H. Eidelman, M.D. - by Ms. Henry

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Q. Would you ask if that result was available? At the time that you were contacted by the nurse, would you specifically ask as to that result? Would it not be within the standard of care to ask specifically what the results were?

A. Well, I think that it would be traditional, certainly in my institution, to have a physician relay that information.

Q. If it was not traditional -- are you saying that an RN is incapable of relaying the information conveyed in a lab result?

A. No. But I think if you are faced with a neurological problem of an ascending paralysis, that the overall clinical picture and impression that you're going to get is -- the accuracy of that picture is going to depend on how well-educated the person providing that information is, and it may be that the information provided by a nonmedical person could have completely different flavor and be misleading.

Q. When you say "nonmedical," you mean nonphysician?

A. Nonphysician person, yes.

B. H. Eidelman, M.D. - by Ms. Henry

-----

Q. If you felt, based on those findings, that there was some reason for concern, would you feel it was appropriate standard of care to contact the physician who had referred?

A. If I felt there was some concern, yes, then I would assure that the physician either contacted me or I was contacted.

Q. If you had Guillain-Barre, what would you expect the cell count to show as to the white blood count? What would be acceptable?

A. We discussed this earlier in the deposition.

Q. Up to 100, did you say?

A. Up to 100, yes.

Q. And I think, perhaps, you did agree that most, if not almost all, the cells should be lymphs if it's a Guillain-Barre?

A. That's correct.

Q. Given the lab findings that are contained in these records, those results given to you at the time that you were contacted, along with the information that there was marked weakness, sensory symptoms, and depressed reflexes, what would you

1 B. H. Eidelman, M.D. - by Ms. Henry

2 -----

3 have done, given all that information at the time of  
4 the phone call?

5 A. If this was my specific case, I would have  
6 been a little suspicious of those 37 percent white  
7 cells, and I would have liked more information to  
8 determine whether there was some reason for the  
9 white blood cells to be raised. Does the patient  
10 have some kind of other evidence of spinal cord  
11 involvement? Was there any kind of generalized  
12 illness which could have been operative here to  
13 produce the condition such as a meningitis?

14 Q. If you would have wanted more information,  
15 how would you go about obtaining that information?

16 A. Additional information would have to be  
17 given by the physician who was primarily taking care  
18 care of that patient.

19 Q. You would have contacted the physician who  
20 was caring for the patient?

21 A. I would have asked him to contact me.

22 Q. Would you also have done that by going in  
23 to see the patient, given these results?

24 A. Not necessarily. I would have -- I think  
25 it's quite adequate to get good information from a



B. H. Eidelman, M.D. - by Ms. Henry

-----

responsible individual.

Q. Okay. You have given us an opinion that by the time that Dr. Singh saw this patient on the 9th, you felt that the condition was irreversible; is that correct?

A. Yes.

Q. Is there a specific time, based on what you have reviewed in the chart, that you felt that condition became irreversible prior to when Dr. Singh saw him?

A. The condition had reached a very ominous phase when he developed weakness in his legs and difficulty with bladder control. That information, together with the absence of significant cord compression on the myelogram, suggests that he was already developing ischemia of the -- lack of blood flow to the spinal cord. So even on admission to the hospital, there was a situation where he was entering into the irretrievable range. The question is, from that point until he developed total weakness and paralysis, I'm not sure exactly within that time frame when his total paralysis became apparent. If I recall, Dr. Arneman said severe

1 B. H. Eidelman, M.D. - by Ms. Henry

2 -----

3 motor involvement or gross weakness. It's somewhere  
4 in the report.

5 Q. In the consultation.

6 A. And even -- is that his (indicating)?

7 Q. Yes. I think there was some movement at  
8 4 a.m.

9 A. No. He just had --

10 Q. Foot movement. Okay.

11 MR. WRIGHT: Very little. I mean, it  
12 was -- he couldn't move his legs.

13 A. Marked motor weakness of both lower limbs.  
14 Now, that is a general term. If, at that stage, he  
15 had almost total paralysis, then I would have said  
16 it was irretrievable at that stage.

17 Q. At the time that Dr. Arneman would have  
18 seen him in the emergency room?

19 A. Right. He said "marked." Now, that's  
20 something you've got -- I'm not sure what that means.  
21 It's a very general term. Marked can mean that he's  
22 totally paralyzed or he has some movement, minimal  
23 movement.

24 Q. What you're saying is that it's the  
25 ischemic pathology here that caused this condition

B. H. Eidelman, M.D. - by Ms. Henry

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of the spinal cord?

A. I believe.

Q. As opposed to a collection of the pus and compression, correct?

A. That is correct.

Q. And if there is an ischemic condition developing, what can be done, if anything, to reverse that condition?

A. Once ischemia has set in and been present in the vessels that supply the spinal cord, have blocked off, nothing can be done at that level to improve the blood flow. It's an irreversible situation.

Q. And based on your finding here that there's marked motor weakness of both lower extremities when he came to the emergency room, you feel it was irreversible at that time?

A. Depending on what the definition of "marked" implies. If he was totally paralyzed, at that point, then I would say that he was totally irreversible.

Q. And if he had not been totally paralyzed but had marked -- but had a lot of weakness -- I guess I'm having a hard time with your definition of

B. H. Eidelman, M.D. - by Ms. Henry

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"marked."

A. It's not my definition.

Q. Yes.

A. It's his definition.

Q. Okay.

A. We grade strength according to what the functional capabilities of a patient are. As a neurologist, I wouldn't expect an internist to do this. You go from normal strength to what we would call Grade 0, which is no movement; Grade 1 being just a flicker. Grade 5 is normal, Grade 0 is no movement, Grade 1 is a flicker of movement.

Q. If there's a flicker of movement, say it's a Grade 1, when he comes into the emergency room, is it irreversible at that point?

A. I would think, based on what we know about the myelogram, yes, it was.

Q. I'm curious as to what 2, 3, and 4 are here.

A. Okay. Now, 4 is where it's less than normal strength, but he can still move the leg against gravity; in other words, he could do that, but put a little extra, and he would not be able to resist

B. H. Eidelman, M.D. - by Ms. Henry

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here (indicating).

Q. He would be able to lift his leg up?

A. A little more. That would be 4. 3 is just where he could lift against gravity and no more; and Grade 2, he could move it, but with gravity removed. In other words, if I put his leg in this position (indicating), he could move it, but he couldn't do that against gravity; and Grade 1 would be -- well, it's just a flicker of movement.

Q. With these gradations you've given me of 1 to 5, Grades 0 and 1, you said, would be irreversible?

A. No, I don't think you could that. I'm just saying -- if he was almost totally paralyzed, I would think that he would have very little chance of recovery and the chance against him would be -- in other words, the horse is bolted and his chances of reversibility are not good at all, or not reasonable, most unlikely within what we regard as a reasonable certainty. I think I'm misleading you by mentioning these gradings. All I'm trying to say is that if he had some movement, could maybe walk or support gravity, that would indicate some residual function,

1 B. H. Eidelman, M.D. - by Ms. Henry

2 -----

3 at which point, intervention probably would have --  
4 may have, may have, if this was being helpful -- but  
5 once it progresses beyond that stage --

6 MR. BECKER: Which stage?

7 A. -- where he's unable to move except for a  
8 minimal amount of movement, then I think you're  
9 dealing with a very severe situation. There's been  
10 major involvement of the spinal cord.

11 We know there was no pressure. Had that  
12 pressure been present, I would not be saying this.  
13 We know there was no pressure, or we assume there  
14 was no pressure because the myelogram done in  
15 Cleveland failed to show a significant amount of  
16 cord distortion. Under those particular  
17 circumstances, the likelihood is that there was a  
18 progressive ischemic myelopathy, which it had  
19 reached an advanced degree to the point where,  
20 logically, there was little likelihood of return of  
21 function.

22 Q. But you said if he was able to walk or  
23 support gravity --

24 A. That would have been --

25 MR. WRIGHT: He didn't say that.

1 B. H. Eidelman, M.D. - by Ms. Henry

2 -----

3 Wait a minute. I'm not sure what your question is.

4 MS. HENRY: Well, I didn't get to  
5 finish it.

6 Q. Why don't you explain again. You said  
7 that intervention may have had some kind of an  
8 outcome if, you said, when he came into the  
9 emergency room he was able to walk? Did I  
10 misunderstand you?

11 A. Yes.

12 MR. WRIGHT: Well, now, hold it,  
13 because the emergency room record and Mr. Berry's  
14 testimony indicates that he was unable to -- that  
15 they had to take him in a wheelchair to the  
16 examining table. He wasn't able to walk after he  
17 came into the emergency room.

18 MS. HENRY: That's okay. I'm not  
19 saying necessarily that this is -- I want to get  
20 this clear as to what kind of movement he feels --  
21 in case there's any dispute at all in here -- what  
22 kind of movement he feels may have resulted in  
23 recovery if there had been some intervention.

24 MR. WRIGHT: You might ask what  
25 clinical signs he would expect to see in order to

1 B. H. Eidelman, M.D. - by Ms. Henry

2 -----

3 have any chance whatsoever of reversibility,  
4 something like that.

5 BY MS. HENRY:

6 Q. Okay. Why don't you answer his question,  
7 then? Assume it's mine.

8 A. The severity of the involvement will  
9 determine the likelihood of this being permanent.  
10 The more severe, the more obvious the neurological  
11 deficit; in this particular setting, the less likely  
12 the outcome to be favorable. Now, if this was a  
13 patient of mine, I would feel very concerned about  
14 his prognosis if he'd come in with this story:  
15 examined him; he had very little motor function;  
16 maybe some movement, but certainly not enough to  
17 support gravity; and we went ahead and did the  
18 myelogram and felt no cord compression. I would  
19 have been very concerned about his ultimate  
20 prognosis, and I would have just -- at least  
21 certainly would have found him to be rather gloomy  
22 in what I expect his prognosis to be.

23 Q. But as to clinical symptoms to the motor  
24 involvement or the neurological involvement, what  
25 would you expect to find if you then felt that it



B. H. Eidelman, M.D. - by Ms. Henry

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might be reversible?

A. I would have expected him to be able to move his legs fairly freely in bed without resistance. I would have hoped to see him able to maybe lift his leg up against gravity and offer some resistance to my added pressure.

Q. Would you expect he would also be able to walk?

A. Not necessarily. But that would be nice to see him walking in, remaining without any loss of walking function.

Q. But if you made these findings that he could move his legs freely in bed without resistance, he could lift his legs against gravity, and would offer resistance to added pressure by you, are we talking about, to a reasonable degree of medical probability, he would have been able to have a complete recovery?

A. Again, now, you have to -- it depends on when and how soon surgery could be effected, because what we're dealing with in this situation is a progressive occlusion of vessels; and that, as is apparent from this man's course, happened rather

B. H. Eidelman, M.D. - by Ms. Henry

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rapidly; and again, he may have made a diagnosis -- it takes time to set up an operating room, time to do the myelogram. At that point in time, all may be lost, even with an adequate and effective diagnostic regimen.

Q. Given those clinical symptoms that we just discussed about the neurological movement, it would have been mandatory to do a myelogram initially --

A. Yes.

Q. -- before doing any further surgical intervention?

A. In a hypothetical situation, if you knew that this man had an epidural situation, an epidural abscess, and your clinical features as portrayed were consistent with this diagnosis, it would have been important to do the myelogram as soon as possible. As I say, mandatory.

Q. And then the surgery after that?

A. Immediately, yes.

Q. You would have to do the myelogram first and then the surgery?

A. Unquestionably, yes.

Q. Because you would not know at what

B. H. Eidelman, M.D. - by Ms. Henry

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location to do the surgery unless you did the myelogram?

A. That is correct.

Q. And you have said that it may even be too late by the time you did the myelogram and then the surgery?

A. If the course was such that he progressed to total paralysis from even a flicker of movement while you were waiting for the operating room and whatever else was needed for the surgery to be put into effect, yes.

Q. Okay. So by the time he hits the total paralysis --

A. Now, we're talking -- again, I want you to understand, we're talking about an ischemic situation. I'm not talking about pressure, which is a totally different entity which allows you a little more time and where reversibility is more likely to occur even after there's been major compression.

Q. If you felt it was pressure as opposed to the ischemic situation, if surgery had been performed on the 9th or the 10th, given that hypothetical, would it have been a reversible

1 B. H. Eidelman, M.D. - by Ms. Henry

2 -----

3 situation?

4 A. More likely than if it had been ischemic.

5 Q. And would it also be reversible, if it was  
6 a cord compression and there was total paralysis,  
7 would it be reversible even after that if you had  
8 done the surgery?

9 A. If it was total paralysis, loss of bladder  
10 function, even with cord compression, the outlook is  
11 very poor.

12 Q. So what you're saying, then, is that by  
13 the time Dr. Singh saw him, regardless of whether it  
14 was compression or ischemia, the chances of any kind  
15 of reversal are minimal?

16 A. Yes.

17 Q. Then you disagree with the opinion  
18 rendered by some of the other experts in this case  
19 that if there had been surgery on the 9th or the  
20 10th, that recovery, complete recovery would have  
21 been possible?

22 MR. WRIGHT: You don't have to answer  
23 that question. You don't have to agree or disagree  
24 with some other expert's opinion. It's not  
25 appropriate to ask that kind of a question. You

1 B. H. Eidelman, M.D. - by Ms. Henry

2 -----

3 can't pit one of these people against another.

4 MS. HENRY: You can't instruct him  
5 not to answer.

6 MR. WRIGHT: I already have done that.

7 MS. HENRY: Since he's not  
8 technically your client, you can't instruct him not  
9 to answer.

10 MR. WRIGHT: I'm just telling him  
11 that it's not appropriate. We've been here for long  
12 enough now.

13 BY MS. HENRY:

14 Q. Is there support in the literature for  
15 your position that once there is total paralysis it  
16 is irreversible?

17 A. Put it this way, it's a very well accepted  
18 dictum or dogma, as I've talked about before; and  
19 I'm sure we would find something. But it's so well  
20 known that we discuss it at rounds under clinical  
21 circumstances.

22 Q. Did you read Dr. Arneman or Dr. Singh's  
23 depositions?

24 A. No.

25 Q. There has been some discussion about this

B. H. Eidelman, M.D. - by Ms. Henry

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draining -- see if I can find it here -- that there was a draining abscess on the abdomen which you felt the internist, had he seen, it should have been brought to the attention of the neurologist. If it had been seen, based on what you know in this case, what, if any, significance would that have in this particular case?

MR. WRIGHT: I object to the question, because there is no evidence, at least at the time the patient was in the Osteopathic Hospital, of such a condition. I see that there was evidence of some stab wound being present in the abdomen in the Cleveland Clinic record. But I don't know what that means, and I don't know whether it was there when he was at the Osteopathic Hospital or not. It said "stab wound" is what it says. It says "lesion," and then the next one, "from a stab wound on the abdomen," on the next page.

(Discussion off the record.)

Q. If you assume that he did have a lesion on his abdomen that had been draining for, as the Cleveland Clinic records say, some time at the time that he was in the Youngstown Osteopathic Hospital,

1 B. H. Eidelman, M.D. - by Ms. Henry

2 -----

3 if you assume that finding in addition to everything  
4 else you had in the chart, what significance, if any,  
5 did that have as to the diagnosis as to spinal  
6 epidural abscess or Guillain-Barre?

7 MR. WRIGHT: I object unless you say  
8 that it was present when he came in the emergency  
9 room and when Dr. Singh saw him. I think you have  
10 to assume that.

11 MS. HENRY: I thought I said that. I  
12 thought I had made that clear.

13 Q. Assuming that it was present at the time  
14 that he was there.

15 A. Assuming that draining, whatever it was,  
16 on the abdomen had been present for some time and  
17 was there when Dr. Singh and Dr. Arneman had seen  
18 him, you're assuming -- that's the assumption; is  
19 that correct?

20 Q. Yes. Assume that that was there when he  
21 was seen by Dr. Arneman and Dr. Singh, given the  
22 other information that you have in this chart, what  
23 does the addition of that have as far as any  
24 significance in the diagnosis of this case?

25 A. Well, it can work in favor of the

1 B. H. Eidelman, M.D. - by Ms. Henry

2 -----

3 diagnosis of an epidural abscess in the sense it's  
4 providing a potential portal of entry for the  
5 infection, and that may be a source of subsequent  
6 hematogenous spread to the spine.

7 It could work the other way.

8 Guillain-Barre may follow some kind of antecedent  
9 infection. He may have had some kind of tick.  
10 There's something called tick paralysis where the  
11 tick may strike the abdomen, bite the abdomen, and  
12 that can cause paralysis. That doesn't present in  
13 exactly this way, but certainly those are  
14 considerations. But it would alert one to the  
15 possibility that there may be a causal relationship.

16 Q. Could it also have no significance at all  
17 in this --

18 A. Probably. That is the more likely,  
19 because how often do we see -- very frequently do we  
20 see cutaneous lesions that have no implications in  
21 terms of the neurological presence. In terms of  
22 probabilities, a cutaneous lesion is not likely to  
23 have much in the way of significance.

24 Q. Could it, given the fact that he had high  
25 blood sugar, it simply been some kind of lesion that



B. H. Eidelman, M.D. - by Ms. Henry

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1 didn't heal because he was diabetic?

2 A. That is a possibility.

3 Q. Dr. Miller's -- you talked about a chapter  
4 in a book?

5 A. Yes.

6 Q. Which book is that?

7 A. It's Merritt's textbook. It's edited by a  
8 guy named Bud Rowland.

9 Q. And that is what you were referring to  
10 when you responded to Mr. Becker about his article?

11 A. Yes.

12 Q. That's that particular text?

13 A. Yes.

14 MS. HENRY: I don't think I have  
15 anything further. Thank you.

16 EXAMINATION

17 BY MR. BECKER:

18 Q. Doctor, do you think if a myelogram would  
19 have been performed on the 8th, it would have been  
20 diagnostic?

21 A. The 8th was the Friday night of admission?

22 Q. Yes, sir.

23 A. Now, specifically what kind of myelogram?

B. H. Eidelman, M.D. - by Mr. Becker

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They did two kinds. If they did an Amipaque myelogram, I think it may not have been diagnostic. I doubt it would have been diagnostic, based on what I see of the subsequent myelogram.

Q. What about a myelogram on the 9th, would it have been diagnostic?

A. It's difficult to answer that, because I'm not sure what the evolution of the syndrome in terms of the development of pus was. I believe that most of the early symptoms and signs related to the local inflammatory reaction with the thrombophlebitis, and under those circumstances, with early inflammation, you may not see anything on the myelogram.

Q. In terms of probability, Doctor, would you agree with me that it's more probable than not that had a myelogram been performed on the evening of the 8th it would have demonstrated something similar to that which was demonstrated on the, I believe, the 11th or 12th?

A. Not necessarily.

Q. I'm not asking you necessarily. I'm asking --

A. I think the probability is that on the

B. H. Eidelman, M.D. - by Mr. Becker

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evening of the 8th, a myelogram would not have been diagnostic.

Q. And the basis for that opinion?

A. That I think the evolution of his syndrome was largely one of a vascular one.

Q. And that's the basis?

A. Yes.

Q. Because you're hanging your hat on the vascular analysis from the Cleveland Clinic myelogram, correct?

A. Yes.

Q. But you would acknowledge that there's no support for this vascular theory from the myelogram done at Youngstown Osteopathic, correct?

A. The myelogram is not able -- you cannot diagnose a vasculitis on myelogram. You can only infer it on the basis of absence of compression on the spinal cord.

Q. Right.

A. That's what I'm saying.

Q. But on the 11th or 12th when the first myelogram was performed, that did demonstrate a block consistent with compression, correct?

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 A. No. It demonstrated a block indicating  
4 that the contrast agent was not flowing past an  
5 obstruction, and that does not indicate compression.

6 Q. Does --

7 A. It's a physical inability of the contrast  
8 agent to move past a point. That is not necessarily  
9 diagnostic of compression.

10 Q. What, in terms of probability, is it  
11 diagnostic of?

12 A. It could just mean there was some  
13 inflammation with beginning of adhesions formed  
14 there, and the inflammatory reaction that goes along  
15 with this may have produced an obstruction to the  
16 passage of the fluid. A block is not synonymous  
17 with compression.

18 Q. But is it consistent with compression?

19 A. It is consistent.

20 Q. Doctor, you used the term "ischemia" in a  
21 way that I'm not familiar with, and I'm familiar  
22 somewhat with vascular surgery. My understanding of  
23 ischemia, the term means reduced vascular supply;  
24 not complete blockage, but reduced vascular supply.  
25 Is that correct?

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 A. No. It indicates there's lack of blood  
4 flow to that particular organ.

5 Q. Total absence of blood flow?

6 A. Yes.

7 Q. Assuming as true that there was a  
8 compression component as a result of his symptoms on  
9 the 8th -- okay? I understand that you have an  
10 opinion that it's a vascular, predominantly vascular  
11 component. But assume that it's true that a  
12 compression was one component of it, can you state  
13 in terms of probability that had surgery been done  
14 on the 8th it was a reversible scenario, assuming  
15 that to be true?

16 MS. HENRY: Objection.

17 MR. WRIGHT: You're assuming that  
18 there was also ischemia present? In other words,  
19 you're assuming that in your question?

20 Q. Assuming there was a component of ischemia  
21 as well as compression on the 8th, assuming we don't  
22 have total paralysis on the evening of the 8th --  
23 assume that to be true, Doctor -- would you  
24 acknowledge that it was a reversible scenario on the  
25 8th?

1 B. H. Eidelman, M.D. - by Mr. Becker

2 -----

3 A. Whatever was related to the compression  
4 could have potentially been improved by  
5 decompression.

6 Q. The answer to my question would be yes?

7 A. Yes.

8 MR. BECKER: Thank you. I have  
9 nothing further.

10 -----

11 (Signature not waived.)

12 (Whereupon, the deposition was  
13 concluded at 6:30 p.m., this day.)

14 -----

JAMES BERRY, et al.

vs.

DR. R. KALAPOS, et al.

No. 87 CV 726

# CERTIFICATE

I, BENJAMIN HILLEL EIDELMAN, M.D., do hereby certify that I have read the foregoing transcript of my deposition consisting of Pages 3 through 110, and it is a true and correct copy of my testimony, except for the changes, if any, made by me on the attached Deposition Correction Sheet.

BENJAMIN H. EIDELMAN, M.D.

(Date)

Notary Public

(Date)

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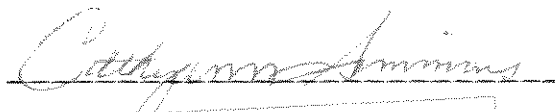
COMMONWEALTH OF PENNSYLVANIA, )  
COUNTY OF ALLEGHENY ) SS:

I, Cathyann Simmons, a notary public in and for the Commonwealth of Pennsylvania, do hereby certify that the witness, BENJAMIN HILLEL EIDELMAN, M.D., was by me first duly sworn to testify the truth, the whole truth, and nothing but the truth; that the foregoing deposition was taken at the time and place stated herein; and that the said deposition was recorded stenographically by me and then reduced to typewriting under my direction, and constitutes a true record of the testimony given by said witness, all to the best of my skill and ability.

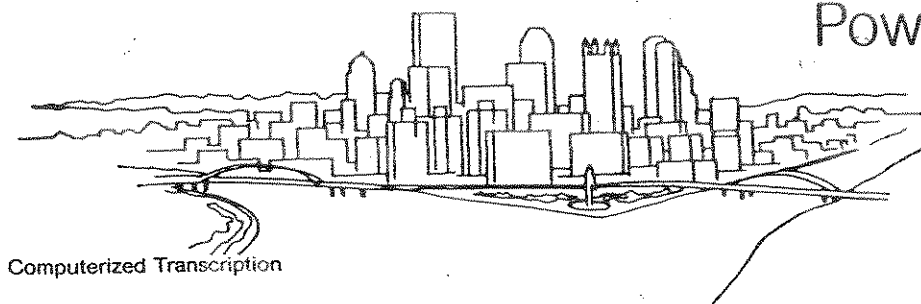
I further certify that the inspection, reading and signing of said deposition were not waived by counsel for the respective parties and by the witness.

I further certify that I am not a relative, employee or attorney of any of the parties, or a relative or employee of either counsel, and that I am in no way interested directly or indirectly in this action.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal of office this 2nd day of October, 1989.

  
NOTARIAL SEAL  
CATYANN SIMMONS, NOTARY PUBLIC  
Member, Pennsylvania Association of Notaries





# Powers and Garrison

The Court Reporters

600 Warner Centre

332-5th Avenue

Pittsburgh, Pennsylvania 15222

Phone: (412) 263-2088

October 2, 1989

Benjamin H. Eidelman, M.D.  
Room 328, Scaife Hall  
Department of Neurology  
University of Pittsburgh  
Pittsburgh, PA 15261

Re: James Berry  
Vs: Kalapos, M.D.  
No:

Dear Dr. Eidelman:

Enclosed herewith is a copy of the transcript of your deposition taken in the above-captioned case. Pursuant to the Rules of Civil Procedure, you have a right to inspect, sign, and correct this deposition. If you wish to make any corrections, please enter them on the enclosed "Deposition Correction Sheet," together with the reason for the correction. Then sign and date the witness' certificate page also enclosed. Then return these sheets to me. I will notify all counsel of any corrections.

You are required to sign the deposition within 30 days of submission of the transcript to you. If it has not been signed within 30 days, I am directed to sign it and state the reason for its not being signed, and the deposition may then be used fully as though signed, unless the court holds that the reasons for not signing require rejection of the deposition in whole or in part.

Should you have any questions, I can be contacted at the above phone number or address.

Very sincerely yours,  
POWERS & GARRISON

*Cathya Simmons*  
Cathya Simmons  
Court Reporter

Enc.

cc: All counsel