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IN THE COURT OF COMMON PLEAS
CUYAHOGA COUNTY, OHIO

JOSEPH E. DAVIS, et al.)	CASE NO. 276797
)	
Plaintiffs)	
)	
VS .)	
)	
UNIVERSITY HOSPITALS OF)	<u>DEPOSITION OF JAMES M.</u>
CLEVELAND, et al.)	<u>KIRSHENBAUM, M.D.</u>
)	
Defendants	*)	

DEPOSITION OF JAMES M. KIRSHENBAUM, M.D., taken on behalf of the Plaintiffs, pursuant to the applicable provisions of the Ohio Rules of Civil Procedure, before Carrie B. Thompson, Certified Shorthand Reporter and Notary Public in and for the Commonwealth of Massachusetts, at the offices of Dr. Kirshenbaum, Brigham & Women's Hospital, 75 Francis Street, Boston, Massachusetts, on August 24, 1995, commencing at 1:00 p.m.

VOLUME: 1
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 EXHIBITS: None

STATE OF OHIO

In the Court of Common Pleas
 Cuyahoga County, Ohio
 Case No. **267797** -- Judge Sutula

JOSEPH E. DAVIS, et al.,
 Plaintiffs

v.

UNIVERSITY HOSPITALS OF CLEVELAND, et al.,
 Defendants

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.....
 FRITZ & SHEEHAN ASSOCIATES, INC.
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FRITZ & SHEEHAN ASSOCIATES, INC.

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 Dr. Cirino

I N D E X

DEPOSITION OF: PAGE

James M. Kirshenbaum, M.D.

Examination by Mr. Cunningham 3

E X H I B I T S

NO. PAGE DESCRIPTION

(No exhibits were marked.)

P R O C E E D I N G S

JAMES M. KIRSHENBAUM, M.D.,

a witness called for examination by counsel for the
Plaintiffs, being first duly sworn,. was examined
and testified as follows:

DIRECT EXAMINATION

BY MR. CUNNINGHAM:

Q. Would you give us your full name and
professional address, Doctor?

A. James Michael Kirshenbaum, cardiovascular
division, Brigham and Women's Hospital, 75 Francis
Street, Boston, Massachusetts 02115.

Q. How did you become involved in this case?

A. I was contacted by Mr. Murphy.

Q. Have you done work for Mr. Murphy or his
firm before?

A. I believe I have been an expert for his
firm once before. I've never worked with
Mr. Murphy before.

Q. Tell me just a little bit -- I have your
CV here -- but what currently do you do?

A. Well, as the codirector of the clinical
cardiology service program here at the Brigham, I
am one of the medical attendings in our coronary

1 care unit, our inpatient cardiology service and the
2 cardiac catheterization laboratory where I perform
3 angiography and coronary artery angioplasty. I am
4 involved with the teaching of the house staff and
5 fellows, and I have a clinical investigative
6 program ongoing as well.

7 Q. What material have you read primary to
8 preparing your report and also primary to this
9 deposition?

10 A. I have read the medical records sent to
11 me by Mr. Murphy and the reports of other experts
12 that he has sent to me as well.

13 Q. What about depositions? Have you read
14 any depositions?

15 A. The one deposition I've been given is Dr.
16 Kalfas.

17 Q. You haven't read the deposition of Dr.
18 Liberman?

19 A. I have not.

20 Q. Do you know any of the doctors that are
21 involved in this case?

22 A. I do not.

23 Q. You've read the hospital records?

24 A. I have.

1 Q. Which hospital records have you read?

2 A. I've read excerpts from the Aultman
3 Hospital hospitalization that preceded the transfer
4 of Mr. Davis to the University Hospital. And I've
5 read the records of that hospitalization from
6 November 6, 1991 through November 21.

7 Q. In preparing your opinions for your
8 report, what literature, if any, did you consult
9 with or read?

10 A. None.

11 Q. Did you consult with any of your
12 colleagues in preparing your report?

13 A. I did not.

14 Q. So your report, I take it you prepared it
15 from reading the hospital records?

16 A. Correct.

17 Q. And I don't think at that time you had
18 the deposition of Dr. Kalfas, did you?

19 A. No, sir. I received that just in the
20 past two weeks.

21 Q. Has there been anything that you have
22 read since the preparing of that report that
23 changes your opinions in any way from the report
24 that you submitted to Mr. Murphy on May 16, 1995?

1 A. No, sir.

2 Q. You have in front of you a report from a
3 Dr. McPherson?

4 MR. MURPHY: He will momentarily. I
5 don't think I sent that to you before.

6 A. I do now.

7 MR. MURPHY: Do you want to give him
8 a minute to read that? I don't know what you want
9 to do with it.

10 Q. Well, let me ask a few questions. It
11 isn't going to be so much on opinions that are in
12 here as to whether you agree or disagree with them
13 right now. But from reading the hospital records,
14 we know that there were two major operations that
15 were done on Mr. Davis, do we not, the angioplasty
16 and the laminectomy?

17 A. Yes.

18 Q. With a hematoma?

19 A. Yes.

20 Q. And we know that the players involved --
21 and I call them players -- doctors involved, one
22 was a Dr. Liberman?

23 A. Correct.

24 Q. And what do you understand his position

1 and responsibility was in this case?

2 A. He was the attending in the coronary care
3 unit to which Mr. Davis was transferred; and his
4 role, he was in charge of the overall care of
5 Mr. Davis.

6 Q. And then there was a Dr. Cirino. What
7 was his role?

8 A. I believe he was the medical resident who
9 at that time was rotating through the coronary care
10 unit.

11 Q. And then there was the neurology
12 department in which one of the doctors in the
13 neurology department was a Dr. Katirji?

14 A. I believe that's his name, yes,

15 Q. I think I'm pronouncing it right.

16 A. Assuming the signature on this page is
17 that of Dr. Katirji, I believe he was a neurology
18 attending who was called to consult on Mr. Davis.

19 Q. Now, in this case there was a lumbar
20 puncture and an attempt at a lumbar puncture done
21 on Mr. Davis on November 8, 1991; do you recall
22 that?

23 A. Yes.

24 Q. If you go to Dr. McPherson's report here

1 for just a moment --

2 MR. MURPHY: Let me put an objection
3 on now as to the use of McPherson's report as to
4 the reasons we've already talked about, and I won't
5 object every time you refer to it.

6 MR. TREU: I'll join in the
7 objection.

8 Q. The last paragraph, it says, "The
9 following are my medical opinions based on a
10 reasonable degree of medical certainty. No. 1,
11 based on a review of Mr. Davis' medical records,
12 there was no clear indication for a lumbar puncture
13 on November 8, 1991." Now, my question is not at
14 this time to ask you for your opinion as to whether
15 you agree or disagree with that, but my question is
16 in the ordering of the lumbar puncture, whose
17 sphere of responsibility was that, Dr. Liberman,
18 Dr. Cirino or the neurologic department of Dr.
19 Katirji or all three?

20 A. In this particular case, it appears that
21 a request was made for a neurologic consultation by
22 members of the cardiology staff. That neurological
23 consultation recommended the lumbar puncture. It
24 would be the responsibility of the attending of

1 record, Dr. Liberman, to determine whether or not
2 to follow the advice of his selected consultant
3 regarding the lumbar puncture. So in an absolute
4 sense, the ordering of the lumbar puncture would be
5 under the responsibility of Dr. Liberman. The
6 recommendation for the lumbar puncture came from
7 the neurologist who did the consult.

8 Q. Let's assume for a moment that the lumbar
9 puncture shouldn't have been ordered, for just a
10 moment. And you were trying to place the
11 responsibility for the ordering of that lumbar
12 puncture on a person or persons. Who would you
13 place that responsibility on?

14 MR. MURPHY: Object to the
15 hypothetical. You can answer.

16 MR. TREU: Objection.

17 A. From my work where I do it, a coronary
18 care unit attending, it is the responsibility of
19 the physician of record to be aware of and involved
20 in the ordering of tests and procedures on his
21 patient. Ultimately it is that person's, the
22 attending of record's responsibility to order or at
23 least be involved in the decision regarding tests
24 and procedures that are done.

1 When the attending feels that the
2 area in question is outside of his area of
3 expertise and requests a consultant to provide
4 advice, it would be most common for the attending
5 to follow the consultant's advice if it appeared
6 reasonable. It is a formality, I think, of
7 terminology to say who orders it. But the ultimate
8 responsibility for the patient's care rests, I
9 believe, in the attending of record's hands, And
10 in this case it would be Dr. Liberman.

11 Q. If the consultant who recommended the
12 lumbar puncture or the department, that
13 neurological department who recommended it and it
14 was determined, hypothetically -- and what I'm
15 trying to do, Doctor, I don't want opinions as to
16 conduct. I want to get opinions as to
17 responsibility so we can determine at least from
18 you as to who do you look for responsibility if
19 there was something that went wrong, all right?

20 So in this case, if there's a lumbar
21 puncture, hypothetical case of a lumbar puncture
22 being ordered and a consultant is called in from
23 the neurology department and the neurology people
24 say you should do a lumbar puncture, and the doctor

1 says, "Okay, I'll do the lumbar puncture based upon
2 consulting with you," and he orders the lumbar
3 puncture and it never should have been done in the
4 first place, that situation I think you're telling
5 me that one responsibility would be for the
6 attending physician, who in this case,
7 hypothetically would have been Dr. Liberman.

8 MR. MURPHY: I object to the
9 hypothetical, but go ahead.

10 Q. Now, would also the neurology department
11 or the consultant who made that order, wouldn't he
12 have some responsibility or that department?

13 A. Yes.

14 MR. TREU: Objection.

15 Q. Or wouldn't the hospital also have some
16 responsibility?

17 MR. TREU: Objection as to
18 "department."

19 Q. You can answer that.

20 A. The answer is yes.

21 Q. And you want to qualify that some way?

22 A. I would be happy to respond to a question
23 about qualification.

24 Q. I thought I might have interrupted you in

1 a sentence. If I start to do that, raise your hand
2 and say, "Hold it." If not, Pat will do it for
3 me. Now, if we go to Dr. McPherson's second
4 opinion found on page 2 where he says, "There is no
5 clear indication for this patient to be treated
6 with Heparin as recommended by the neurologist
7 after the spinal tap." Now, do you recall in the
8 hospital records where the consultant, neurologist
9 consultant recommended Heparin to be begun after
10 the spinal tap?

11 A. I do.

12 Q. And my question then is, in the -- and we
13 also know that that Heparin was not given at that
14 time, don't we?

15 A. Correct.

16 Q. Let's assume, hypothetically, again, that
17 Heparin was recommended by the neurologist of the
18 neurology department, and that Dr. Liberman in fact
19 then ordered Heparin after the lumbar puncture.
20 And just assume for the time being that that
21 Heparin should not have been given. With those
22 assumptions, who would be responsible in that case
23 for the administration of Heparin?

24 MR. MURPHY: Objection. The

1 assumptions aren't borne out by this record at all.

2 MR. TREU: Let me add an objection,
3 that your question seems to be duplicative in that
4 it says a neurologist and it says a neurology
5 department, What does a neurology department have
6 to do with this? Dr. Katirji was an independent
7 consultant on this case. And obviously if you're
8 trying to include the entire neurology department
9 at University Hospital in the question, then I
10 certainly object.

11 MR. CUNNINGHAM: Well, it's a
12 hypothetical. You may answer.

13 MR. TREU: It's certainly
14 hypothetical.

15 Q. I'm trying to place responsibility if
16 Heparin is ordered by a consultant, recommended by
17 a consultant and the attending physician then
18 orders Heparin and it's determined that Heparin
19 shouldn't have been given, who is responsible for
20 that, again?

21 MR. TREU: Objection.

22 A. The line of responsibility, as I
23 understand, generally rests with the attending of
24 record for any patient. However, if an attending

1 feels that a particular problem is outside of his
2 area of knowledge or expertise and he requests
3 consultation from a legitimate expert in his
4 hospital who recommends a course of action that
5 appears reasonable, prudent and appropriate, and
6 that course of action is instituted and later
7 determined by someone else to have been incorrect,
8 then I would find it hard to place blame on the
9 attendant who went to his consultant for advice for
10 following the advice of that consultant.

11 So the term "responsibility" that you
12 asked me is a difficult one for me to answer from
13 the standpoint of blame or fault. As a general
14 rule, much like a captain of a ship is responsible
15 for the actions of his crew, even if he or she
16 didn't necessarily do it, I would suggest that in a
17 hospital setting the attending of record is
18 responsible for the care of his patient. But I
19 would be extremely hard pressed to blame at all an
20 attending for following the advice of his
21 recognized expert in an area where he himself felt
22 that it was not his expertise.

23 Q. But when a doctor writes a physician
24 order in a hospital record, does he take

1 responsibility for that order that he has written?

2 A. Yes.

3 Q. Going to the third opinion of Dr.
4 McPherson --

5 A. Can I add one other comment?

6 Q. Sure.

7 A. This is where I would, frankly -- the
8 term "responsibility" -- maybe even get advice from
9 other people. If an attending requests a
10 consultation from an expert who recommends a
11 procedure or form of therapy limited to the area of
12 expertise of that expert, and the nonexpert follows
13 that advice and follows it correctly according to
14 the recommendations of the consultant, then I think
15 a very reasonable case could be made that the
16 consultant's area of expertise, if followed, lies
17 within his realm of responsibility for doing it
18 correctly. And the attending physician fulfilled
19 his responsibility by involving a consultant,
20 period.

21 And if the advice turns out to be
22 later determined to be wrong by someone else, I
23 still believe that the attending would be quite
24 legitimate in saying, "I fulfilled my

1 responsibilities to this patient by consulting the
2 recognized expert in my institution for **advice**,"
3 period.

4 Q. Would you have that same opinion if the
5 attending physician is the one that wrote the
6 order?

7 A. Yes, because in many hospitals to avoid
8 confusion, the hierarchy of who gets to write
9 orders is fairly clearly spelled out. And it would
10 be very common in a teaching environment, for
11 example, to have order writing capacity relatively
12 limited to a few individuals for clarity and
13 confusion's sake. So that even if the order was
14 written by the intern on the cardiology service
15 following the advice of the consulting neurologist,
16 I would still include the neurologist in the broad
17 area of responsibility for the decisions made.

18 Q. You're saying you would include him, but
19 you're not excluding the attending physician who
20 wrote the order?

21 A. I am not excluding the attending
22 physician.

23 Q. So you're just including, okay. Now,
24 let's go to the third opinion of Dr. McPherson and

1 that is on -- it reads, "The spinal tap was
2 difficult to perform and required three attempts."
3 Now, for whatever reason -- hypothetically, again,
4 we're talking -- let's assume that the attending
5 physician orders the lumbar puncture. Let's assume
6 that the attending physician participates in the
7 lumbar puncture through assistance of securing the
8 patient into a static form.

9 But let's assume that the lumbar
10 puncture is not done properly. Now, here the
11 attending physician is in the room, but another
12 person, another doctor does the lumbar puncture but
13 does the lumbar puncture improperly. Who is
14 responsible in that case?

15 MR. MURPHY: Objection. I object
16 again to the hypothetical. I don't think it's
17 borne out by the record.

18 MR. TREU: Objection, join in the
19 objection.

20 A. I want to be clear that there was nothing
21 I read in the record that indicates the lumbar
22 puncture was performed improperly. So in this
23 particular case --

24 Q. That's why I said hypothetically.

1 A. In this particular case, the issue of
2 improper performance of the procedure -- and my
3 area of expertise, which is cardiology and not
4 lumbar puncture -- nonetheless, there's no obvious
5 improper performance of a lumbar puncture that's
6 apparent to me. But again, the physician of record
7 often uses his associates, physicians in training
8 that work with him, to perform procedures under his
9 supervision. And it is the responsibility of the
10 physician of record to be responsible for the
11 procedures that people working as his proxy have
12 performed appropriately.

13 Q. So in that situation you would have, of
14 course, the person that did the lumbar puncture
15 that was done improperly as well as the attending
16 physician?

17 MR. TREU: Objection.

18 MR. MURPHY: I object because it's
19 the same hypothetical.

20 MR. CUNNINGHAM: I'm trying to
21 summarize what he said.

22 A. I'd like to, if I could, elaborate a bit
23 on that.

24 Q. Sure.

1 A. If the attending of record is assisting a
2 procedure for which he is not an expert being done
3 by someone who is operating on behalf of the
4 expert, his presence or his assisting as you
5 mentioned with stabilizing a patient or making the
6 patient more comfortable, does not in my mind put
7 him in the role of supervising the particular
8 procedure that is being done or being responsible
9 for that procedure being done.

10 Rather, it is the physician who is
11 responsible for whatever that procedure is being
12 responsible for the person doing it, doing it
13 correctly. And my thoughts here are as a
14 cardiologist, if one of my cardiac fellows
15 operating on my behalf does a procedure on a
16 patient that is under the care of an attending that
17 has no knowledge of cardiology who happens to be
18 present in the room during the procedure being
19 performed, I would view it as my responsibility as
20 the cardiologist to be responsible for the cardiac
21 fellow performing as my proxy, not the attending of
22 the patient who may have nothing or may have no
23 knowledge of the procedure that's being done.

24 Q. Okay. I think I follow you, Doctor.

1 Now, let's see if I am following you. Let's
2 assume, well, in this case, again, I want to
3 stress, this is a hypothetical. And I know you've
4 qualified by saying there's nothing in the records
5 that would indicate to you that there is any
6 improper procedure done as far as the lumbar
7 puncture. So with this qualification, this is a
8 hypothetical.

9 But from the records we know of a
10 consult that was made through neurology by Dr.
11 Katirji. We know that Dr. Liberman was in the
12 room, and we know that Dr. Cirino, who was the
13 resident I believe working under Dr. Liberman, **did**
14 the lumbar puncture. Now, assuming, and again,
15 hypothetically, that the lumbar puncture was not
16 done properly, who or which person, who or whom
17 would be responsible in that case?

18 MR. TREU: Objection.

19 A. In this particular case where it appears
20 that the medical resident who performed the lumbar
21 puncture was doing it in his capacity as the
22 resident in the coronary care unit under the
23 supervision of Dr. Liberman, Dr. Liberman would be
24 the physician who is ultimately responsible.

1 Q. Would there be, of course ..

2 A. If the resident was performing a lumbar
3 puncture, for example, as a member of the neurology
4 service on that day, and Dr. Liberman were in
5 attendance, then I would lay the responsibility for
6 that procedure under the auspices of the
7 neurologist who was attending that month on the
8 neurology service.

9 Q. I think I got you. Now, No. 4 of Dr.
10 McPherson's opinions, he states that, "There were
11 no documented neurologic checks to closely monitor
12 Mr. Davis' lower extremity motor sensory function
13 post lumbar puncture until his complaints of
14 inability to move his legs." Again, I want you to
15 consider hypothetically that there were no
16 documented neurologic checks. Who would be
17 responsible in this case to have ordered neurologic
18 checks?

19 MR. TREU: Objection. Again
20 hypothetical not borne out by the record.

21 MR. MURPHY: Likewise.

22 A. First off, I believe in the record
23 there's an indication that one of the nurses in
24 performing her routine exam states the patient

1 could move all extremities as an indirect indicator
2 that at least a neurologic check was done on
3 Mr. Davis during the time period in question. But
4 to answer your question in a hypothetical involving
5 another patient, for example, I would need to know
6 in that hospital what the protocols were for
7 following patients who have undergone any specific
8 procedure.

9 There could be a standard nursing
10 order or a nursing policy for following a patient
11 who has had a procedure. There could be specific
12 orders written by the person who has done the
13 procedure for recommended follow-up. And to answer
14 your question on a more specific basis, I'd have to
15 know exactly the procedure in question and how that
16 hospital in their critical care pathways or various
17 recommended orders for how a patient is followed
18 handles that procedure.

19 Q. Well, let me try it again for a moment,
20 hypothetically, again. And, again, I want to
21 stress it's hypothetically, because what I'm trying
22 to understand from you are opinions as to
23 responsibility in the treatment and care of a
24 patient in certain aspects. And that's what we're

1 doing here. Let me try it again and see if I can
2 make myself more clear, or clear, I guess.

3 Let's assume that in this case that
4 neurological checks should have been ordered and
5 they weren't ordered. And that's hypothetically.
6 Assume that they should have been ordered and they
7 were not ordered. To whose responsibility does
8 that rest?

9 MR. MURPHY: Objection. At what
10 time, Dick? Can I ask that?

11 MR. TREU: Objection.

12 MR. CUNNINGHAM: Well, I guess after
13 the lumbar puncture was given.

14 Q. And assuming no neurological checks were
15 ord red and assuming that neurological checks
16 should have been ordered, whose responsibility is
17 it?

18 MR. MURPHY: Objection.

19 MR. TREU: Objection.

20 A. With all due respect to your pointing out
21 this is hypothetical, it's hard for me to answer
22 your question in specific fashion because, frankly,
23 since it's hypothetical, I could imagine a number
24 of scenarios where the patient's clinical condition

1 would warrant a specific recommendation made by the
2 neurologist for follow-up after lumbar puncture,
3 made by the invasive cardiologist for follow-up of
4 the patient in light of his lumbar puncture, made
5 by the house officer who did the lumbar puncture in
6 the first place, or finally could be part of a
7 standard protocol that the nursing service would
8 have on line for following patients who have
9 undergone lumbar punctures.

10 And the reason I am very broad in my
11 answer is that specific situations necessitate
12 specific follow-up orders. And in the hypothetical
13 you've described, it could be, frankly, from no
14 one's responsibility to write orders, because it
15 would not be at all expected to have any unique
16 follow-up orders written, to very important for a
17 specific individual to have provided this.

18 Q. Now, this question is not a
19 hypothetical. Did you find anywhere in the
20 hospital records after the lumbar puncture was
21 performed on November 8, 1991, any orders for
22 neurological checks?

23 A. No.

24 Q. Now, if you would read Paragraph 4 of the

1 opinion of Dr. McPherson. He says, quote, "There
2 were no documented neurologic checks to closely
3 monitor Mr. Davis' lower extremity motor or sensory
4 function post lumbar puncture until his complaints
5 of inability to move his legs." Now, I recognize
6 what you have stated as to the one document, so I'm
7 going to say assuming, hypothetically, that that
8 statement that is made in that opinion by Dr.
9 McPherson is correct, all right?

10 A. (Witness nods.)

11 Q. If there were no neurologic checks to
12 closely monitor Mr. Davis' lower extremity motor or
13 sensory function post lumbar puncture until his
14 complaints of inability to move his legs, then I
15 want to ask you hypothetically if that's correct.
16 Then I want to ask you do you agree or disagree
17 with Dr. McPherson's opinion which reads as
18 follows, Doctor. "This failure to closely monitor
19 Mr. Davis' neurologic status in view of a traumatic
20 lumbar puncture with concomitant use of Heparin was
21 a deviation from the accepted standard of
22 neurologic care."

23 MR. MURPHY: Objection.

24 Q. Do you agree or disagree with that

1 opinion, or maybe it's beyond your expertise to
2 give an opinion. I want to be fair to you.

3 MR. TREU: Objection.

4 A. It's beyond my area of expertise to give
5 an opinion.

6 Q. This gets more into the field of
7 neurosurgery or neurology; would that be a fair
8 statement?

9 A. Correct.

10 Q. Now, Doctor, if we could go to another
11 report and it's the report of --

12 (A recess was taken.)

13 Q. Doctor, I'm referring to a report by a
14 Dr. Jerry Kaplan, who is a neurologist and an
15 expert for Mr. Murphy in this case, as you are, I
16 believe; is that right?

17 A. Yes.

18 Q. And on page 2 in the last paragraph the
19 second sentence reads as follows. "The patient
20 suffered a subdural and subarachnoid hematoma which
21 resulted in his paraplegia." Would you agree or
22 disagree with that statement? Or if it's beyond
23 your expertise, you can say you have no opinion.

24 A. It's beyond my area of expertise.

1 Q. Doctor, if we go back to Dr. McPherson's
2 report again, on page 2. And if you read the first
3 sentence of the last paragraph which reads as
4 follows, "It is my opinion based on a reasonable
5 degree of medical certainty that Mr. Davis'
6 paraplegia is secondary to the hematoma which was
7 formed after a traumatic lumbar puncture and the
8 use of Heparin and aspirin." And my question to
9 you, Doctor, do you agree or disagree with that
10 opinion, or is it an area beyond your expertise to
11 give an opinion?

12 A. It's beyond my area of expertise.

13 Q. Let's go to the second sentence of that
14 paragraph, Doctor, where it reads, "It is further
15 my medical opinion within a reasonable degree of
16 medical certainty that a lumbar puncture was not
17 necessary in this patient to assess his mental
18 status." Again, I ask you whether you agree or
19 disagree with that opinion, or is that opinion also
20 beyond your expertise to give an opinion?

21 A. It's beyond my area of expertise to give
22 an opinion regarding that sentence.

23 Q. And the third sentence, Doctor, I read
24 for you as follows. Dr. McPherson says, "It is

1 further my medical opinion within a reasonable
2 degree of medical certainty that once a traumatic
3 lumbar puncture is performed and once Heparin is
4 used, it is necessary to closely monitor the
5 patient's neurologic status in anticipation of the
6 formation of an epidural hematoma with concomitant
7 cauda equina syndrome." And I ask you, do you have
8 an opinion or do you have an opinion whether you
9 agree with this or disagree with this, or is this
10 opinion beyond your expertise to give an opinion?

11 A. It's beyond my level of expertise.

12 Q. Doctor, if you would go to the report of
13 Dr. William Cox, a forensic neuropathologist.

14 MR. MURPHY: Is he still coroner of
15 Summit County?

16 MR. CUNNINGHAM: He's coroner of
17 Summit County.

18 Q. And if you would go to page 2 to the last
19 paragraph, and I'm going to read the first sentence
20 to you. Quote, "It is my belief within a
21 reasonable degree of medical certainty that the
22 subdural hemorrhage within the lower spinal canal
23 was due to the concomitant administration of
24 aspirin and Heparin." And I ask you whether you

1 can agree or disagree with that opinion or whether,
2 again, this opinion is beyond your expertise so
3 that you cannot give an opinion?

4 A. I cannot give an opinion.

5 Q. Doctor, let's go to Dr. Kalfas, who is a
6 neurosurgeon with the Cleveland Clinic Foundation
7 and is an expert for Mr. Treu, who represents the
8 University Hospitals in this case. Do you have
9 that? It says the Cleveland Clinic Foundation.
10 There we are.

11 Now, if you go to page 2 of Dr.
12 Kalfas' letter report, down to the fourth paragraph
13 it reads, and I quote, as follows: "It is my
14 opinion that the intrathecal hematoma was a result
15 of a lumbar puncture. This may have occurred
16 without the patient being on Heparin; but under
17 these circumstances, it is most likely directly
18 related to the commencement of Heparin therapy."
19 Now, those two sentences, do you agree or disagree
20 with that opinion in those two sentences, or is it
21 beyond your expertise to give an opinion?

22 A. It is beyond my area of expertise to
23 comment.

24 Q. Now, let's go into your field for a

1 moment, Doctor. I have some questions on your
2 report- And this is a report that you wrote to
3 Mr. Murphy; is that correct?

4 A. Yes, sir.

5 Q. Why was Mr. Davis admitted to University
6 Hospitals? What was the reason for his admission?

7 A. Mr. Davis had previously been admitted to
8 the Aultman Hospital for symptoms of light-
9 headedness which subsequently evolved to be in fact
10 episodes of recurrent high-grade ventricular
11 arrhythmias, specifically ventricular tachycardia
12 and ventricular fibrillation. Management of those
13 potentially fatal arrhythmias was complicated by
14 recurrent episodes of ventricular fibrillation that
15 were not responsive to a variety of antiarrhythmic
16 agents that were employed at the Aultman Hospital.
17 Because of the inability to control Mr. Davis'
18 arrhythmias, he was transferred for further
19 management to the University Hospitals.

20 Q. Because he was having cardiac arrhythmia?

21 A. He was having continuing cardiac
22 arrhythmias; and as it subsequently turned out, had
23 actually probably sustained a myocardial infarction
24 as part of that admission. In addition, he had

1 undergone cardiac catheterization while at the
2 Aultman Hospital, which had shown significant
3 coronary artery disease, including the appearance
4 of what was felt to be a freshly occluded coronary
5 artery. And because of the concern that recurrent
6 myocardial ischemia was contributing to Mr. Davis'
7 recurrent arrhythmias, he was also transferred to
8 determine what would be the optimal treatment
9 strategy for Mr. Davis' occluded coronary artery
10 and ischemia.

11 Q. Now, he was examined and diagnosed, and
12 the recommended form of treatment for his cardiac
13 care was one of angioplasty, was it not?

14 A. It would certainly be part of the
15 recommended therapies. But whether or not
16 angioplasty itself, medical anti-ischemic therapy
17 or potentially surgical revascularization would
18 ultimately be appropriate was to be determined as
19 he continued to undergo care at the University
20 Hospital.

21 Q. Wasn't he included for angioplasty on
22 November 11, 1991?

23 A. He was transferred with that intent. But
24 I'm sure that the doctors at University Hospital

1 would have reserved the right to review Mr. Davis'
2 condition and make a determination that in fact
3 optimal care would be an angioplasty.

4 Q. But he was scheduled, was he not, to go
5 for angioplasty on November 11? That was a Monday,
6 1991?

7 A. After he was transferred to University
8 Hospital and then assessed, yes.

9 Q. I understand that. I'm not saying that
10 they just came up and said, "We're going to do
11 angioplasty" without looking at him. They did a
12 lot of tests on him and made a lot of
13 determinations and findings and so forth. And
14 after all of that, they decided he was a candidate
15 for angioplasty. And they set the date to do it as
16 November 11, 1991?

17 A. Correct.

18 Q. I'm not in any way implying that the
19 University Hospital was, as far as the cardiac care
20 goes, that they were doing an arbitrary procedure
21 without going through the proper workup. Now, he,
22 of course, didn't make it for angioplasty on the
23 11th, because he had to go in for emergency
24 angioplasty on November 9; isn't that right?

1 A. Yes.

2 Q. 1991. Now, in that angioplasty on the
3 11th, it was performed successfully, wasn't it?

4 A. On the 9th, yes, it was.

5 Q. Excuse me, thank you. Can you tell me in
6 the -- you've read the operative report -- and can
7 you tell me basically how this, what blockage there
8 was that they unblocked?

9 A. The angioplasty report indicates that he
10 had an occluded posterolateral branch of his
11 circumflex coronary artery as well as an 80 percent
12 stenosis in an obtuse marginal branch. Both of
13 these narrowings, one the occlusion and the other
14 the stenosis, were successfully angioplastied with
15 a resultant narrowing of less than 20 percent.

16 Q. When you say less than 20 percent, how
17 did that leave the patient? Is that within a
18 normal range?

19 A. That would be considered an excellent
20 angioplasty result.

21 Q. There are many people -- and this is
22 maybe a broad statement, and correct me if I'm
23 wrong -- but there are many people that are at
24 least healthy, walking around with blockages of

1 less than 20 percent, right?

2 (A recess was taken.)

3 Q. I'm going to withdraw that question and
4 try it again. The result of the angioplasty on
5 Mr. Davis where he ended up with a less than 20
6 percent blockage, how would his heart then compare
7 -- when I'm saying "heart" -- the arteries compare
8 that were unblocked to the normal 60 year old white
9 male?

10 A. Well, the normal 60 year old white male
11 presumably wouldn't have any blockages in his
12 arteries, nor would he have suffered a myocardial
13 infarction, both of which Mr. Davis had. But to
14 try to, I guess, expand to your question, the
15 immediate angioplasty result obtained on Mr. Davis
16 was excellent.

17 Mr. Davis remained, however, at
18 significant risk for acute reocclusion of the
19 coronary arteries that had been angioplastied as
20 well as at moderate risk for restenosis of those
21 coronary arteries at a later date. **So** that
22 Mr. Davis was certainly in need of continued
23 cardiology follow-up because in fact he had already
24 sustained at least one myocardial infarction in the

1 setting of this admission and had documented
2 coronary artery disease.

3 Q. Where was the myocardial infarct? Where
4 did that happen in his heart? Do you know?

5 A. Well, it is impossible to say for sure.
6 During Mr. Davis' initial cardiac catheterization
7 at the Aultman Hospital, his left ventriculogram
8 showed evidence of inferior and posterolateral wall
9 akinesis, meaning or suggesting that the inferior
10 and posterolateral wall of his heart was no longer
11 beating normally, presumably because of a recent
12 myocardial infarction.

13 While he was at the Aultman Hospital,
14 he had repeated electrocardiograms obtained, some
15 of which showed significant ischemic EKG changes in
16 the part of his heart that would normally be
17 considered the inferior or posterolateral wall. So
18 I would assume, based on the EKG findings at
19 Aultman and the left ventriculogram findings at
20 Aultman and the subsequent evidence on his arrival
21 at University Hospital of an elevated CPK
22 isoenzyme, that his myocardial infarction had
23 occurred in the general territory supplied by his
24 stenosed and occluded coronary arteries.

1 Q. When you say there was a significant risk
2 of a return of another occlusion or to have another
3 occlusion?

4 A. One of his arteries that was
5 angioplastied at University Hospital had the
6 appearance of being a freshly occluded coronary
7 artery. That raises the real possibility that
8 there was a thrombus or blood clot at the site of
9 that occlusion. When you do angioplasty of an
10 occluded coronary artery with thrombus, for the
11 next day or two, sometimes even three days, that
12 artery is at risk of forming another blood clot and
13 occluding again, so-called an acute occlusion.

14 That was the primary reason that Mr.
15 Davis was continued on Heparin following his
16 angioplasty to minimize the risk that that artery
17 would suddenly occlude.

18 Q. When he was discharged, what was the
19 condition, his cardiac condition upon discharge?

20 A. As best as I can glean from the records,
21 following his angioplasty, he neither had any
22 episodes of recurrent serious ventricular
23 arrhythmias nor any evidence of recurrent
24 ischemia. And using those indirect markers, it

1 would suggest that his coronary arteries were still
2 patent. That is to say that both of the
3 angioplasties arteries were still open and that his
4 cardiac condition at least had stabilized.

5 Q. Assuming, because you don't know, so I'm
6 going to make it a hypothetical, that since his
7 discharge from University Hospitals, that he has
8 had no return of difficulties that he had
9 experienced on admission at the University
10 Hospitals and that his cardiograms, at least the
11 last one, would appear to be generally in the
12 normal range. Could you give any prognosis as to
13 whether or not he's going to, whether or not the
14 effect of what he had back at University Hospital,
15 that they were successful in their angioplasty
16 procedures, whether or not now it's four years
17 later and he has none of those symptoms or none of
18 those cardiac problems?

19 MR. TREU: Objection.

20 Q. Just hypothetically.

21 A. The best answer I can give is to say that
22 at the time he left the hospital, the clinical
23 conditions that were so worrisome, the clinical
24 cardiac conditions that were so worrisome, had

1 resolved, suggesting that the angioplasty at that
2 moment was still working well. Now, unfortunately,
3 at least 30 or 40 percent of patients who undergo
4 angioplasty may have restenosis of the coronary
5 artery over three to six months. That may have
6 occurred in Mr. Davis' case even though he was
7 clinically asymptomatic.

8 It is possible that he has developed
9 collateral arteries supplying the area that his own
10 native coronary arteries were otherwise supplying.
11 It is possible that the stenosis has recurred but
12 not so severely to cause any symptoms. It would be
13 hard for me as a hypothetical four years later to
14 tell you what the status of his coronary arteries
15 are now.

16 Q. So you wouldn't really know one way or
17 the other?

18 A. No.

19 Q. In doing the angioplasty, am I correct
20 basically that they run like a balloon up through
21 -- on a stenosis, this means a narrowing of the
22 artery, does it not?

23 A. (Witness nods.)

24 Q. So they run up, in a layman's term, a

1 balloon and open up the opening? Is that basically
2 what they do?

3 A. What they essentially do is identify the
4 site where the blockage was, very gently thread a
5 soft wire through that blockage, and then over that
6 wire pass a catheter that has a small balloon on
7 it. Once under fluoroscopy they position the
8 balloon at the site of the blockage or the
9 narrowing, they inflate the balloon, and in so
10 doing reopen the artery and reduce the
11 obstruction. Then the balloon and the wire are
12 withdrawn. They verify that the artery is open and
13 staying open. And then they are at that point done
14 with the procedure.

15 Q. Back up just a moment. On doing the
16 angioplasty, can the artery that did not have an
17 obstruction but was a stenosis -- that's just a
18 narrowing of the artery?

19 A. Correct.

20 Q. You had mentioned there is no blockage
21 there, is there?

22 A. Well, I should use my terms a little more
23 carefully. One of his arteries was completely, 100
24 percent blocked.

1 Q. That was an occlusion?

2 A. That's right. The other artery had a
3 narrowing or stenosis of at least 80 percent. So
4 there was a narrowing in that artery.

5 Q. So the narrowing in that artery, what
6 they did was take up the wire with the balloon on
7 it and opened it up and just opened up that artery
8 so that the narrowing --

9 A. Had been reduced from 80 percent down to
10 20 percent.

11 Q. So they just opened that up so it now had
12 a better flow?

13 A. Correct.

14 Q. And then the other artery, the circumflex
15 that had the occlusion --

16 A. The artery is described in the report as
17 the --

18 Q. It's a branch, wasn't it, just a branch
19 of the circumflex?

20 A. It described it as the occluded
21 posterolateral branch, yes. But when you say "just
22 a branch," that may imply small. And that would
23 not be a correct inference. The circumflex artery
24 may in fact have been relatively small and the

1 posterolateral branch actually the large artery. I
2 have not been given the angiogram specifically to
3 review, so I can't comment on the size of the
4 artery.

5 Q. So that was occluded?

6 A. Yes, sir.

7 Q. And what caused the occlusion?

8 A. The probable cause of the occlusion was a
9 thrombus or blood clot developing at the site of
10 what was probably a prior narrowing. And the
11 plaque or cholesterol buildup at that site suddenly
12 ruptured, fissured, cracked, in some way changed
13 allowing the contents of the plaque to be exposed
14 to the blood stream. The contents of the plaque
15 are highly thrombogenic, meaning they tend to
16 promote the formation of clots. And that was
17 probably the event that caused the artery to
18 suddenly occlude.

19 Q. So then you had an occlusion, in other
20 words, a stoppage of the blood flow because of this
21 plaque that was blocking the blood?

22 A. Yes. The angiogram done at Aultman
23 suggested that blood supply down that artery was
24 prevented from going to the end of the artery by a

1 complete blockage from a blood clot.

2 Q. So what the angioplasty did in that case
3 was go in again and remove that plaque or that
4 blockage?

5 A. For semantics I wouldn't say "remove."
6 In the case of a blocked, a 100 percent blocked
7 artery, they were able to get a wire to go through
8 the blood clot and then pass over that wire a
9 balloon that compressed the blood clot and helped
10 remove or lessen the severity of the stenosis, of
11 the underlying stenosis at the site of that blood
12 clot resulting in, when they were done, an artery
13 that at that point had only a 20 percent
14 narrowing.

15 Q. And they opened that up to what?

16 A. To instead of 100 percent occluded, it's
17 now only 20 percent occluded.

18 Q. So you had an 80 percent flow?

19 A. 80 percent opening.

20 Q. If I were going home to explain this to
21 my son what *you* just told me or my grandson, could
22 I analogize that to maybe a pipe with rust inside
23 with a particle breaking off and blocking the flow
24 of water? Would that be an occlusion?

1 A. It would be an occlusion. But in this
2 particular case, it's not necessarily a part
3 breaking off and subsequently blocking the artery.
4 Literally the part of your pipe cracks enough to
5 allow in this case clotting proteins in the blood,
6 or in your example in the water, to at that spot
7 suddenly form a blood clot.

8 Nothing has to break off and travel
9 downstream, but rather the mere presence of the
10 fissured plaque makes that area highly thrombogenic
11 so that the blood as it's passing by is activated
12 to form a clot. As soon as the clot forms, no
13 blood passes downstream, and you have the start of
14 a heart attack.

15 And I might add that if one goes
16 through the sequence of events at Aultman, the
17 sequence suggests that he was having recurrent
18 episodes of ischemia that may have been
19 contributing to his arrhythmias, and that would
20 suggest that possibly a blood clot was forming and
21 dissolving at this plaque until it finally formed
22 completely and blocked the artery.

23 Q. When he was at Aultman Hospital, you
24 mean?

1 A. Yes.

2 Q. Because you know when he went in the
3 Aultman Hospital, he went in just with a dizzy
4 spell. And he had worked I think two days before
5 that.

6 A. Correct. And what is suggested but not
7 confirmed is that that dizzy spell was caused by
8 recurrent episodes of serious arrhythmias,
9 specifically ventricular tachycardia. The
10 explanation of which, why was he having a
11 ventricular tachycardia, was thought to be, and I
12 think correctly, recurrent episodes of ischemia,
13 meaning that for whatever reason blood supply down
14 one or another of those narrowed arteries was
15 transiently so inadequate, the heart muscle was not
16 able to function normally. When that happened, he
17 had his arrhythmias.

18 Q. So from a cardiac point of view, I guess
19 he was fortunate to have this in the hospital where
20 it could...

21 A. It was fortunate that he was at a
22 hospital that could correctly diagnose it and
23 subsequently transfer him to a place that could
24 treat it.

1 Q. Now, Doctor, on page 2 of your report, do
2 you know why from reading the records as to why a
3 lumbar puncture procedure was recommended?

4 A. Specifically from reading the records,
5 the lumbar puncture was recommended to further
6 explain the patient's neurologic condition of one
7 of confusion and agitation. And it appears that
8 the purpose was to specifically exclude either
9 meningitis or encephalitis as the etiology for his
10 declining neurologic state.

11 Q. Before I ask you any questions about
12 meningitis and encephalitis, is that beyond your
13 expertise?

14 A. As someone who personally attends in a
15 coronary care unit, what I saw in this record was a
16 very standard course of action that a cardiology
17 attending would do on someone with a problematic
18 neurologic condition, namely, ask for consulting
19 advice from a neurologist. The neurologist's
20 advice, as we've already commented on in this case,
21 was among other things to perform a lumbar
22 puncture, particularly after a head CT had been
23 done first.

24 And I would have in my role as an

1 attending taken a look at that advice. If it
2 seemed to fit with what I understood to be the
3 cause of the patient's neurologic condition, I
4 would have said to my house staff, "Please follow
5 the advice of our neurologic expert."

6 Q. Now, if the neurologic expert had been
7 Dr. McPherson, he would not have ordered a lumbar
8 puncture, would he have?

9 MR. MURPHY: Objection, hypothetical.

10 MR. TREU: Objection. Assumes he's
11 an expert.

12 A. I don't know. I know what I've read in
13 Dr. McPherson's report. What I suspect would have
14 happened is the house staff or attending would have
15 spoken to the consultant and discussed all forms of
16 therapeutic options. And whatever would have
17 occurred would have been the basis of that
18 discussion.

19 Q. Let's see if I understand what you're
20 saying. You're saying that the lumbar puncture was
21 recommended by the neurology department; and,
22 therefore, we went ahead and did it. My question
23 is, what if the neurologic department would have
24 said no lumbar puncture is necessary?

1 MR. TREU: Objection, again, to the
2 reference to neurological department. What are you
3 talking about? Are you talking about Dr. Katirji?

4 MR. CUNNINGHAM: Dr. Katirji.

5 MR. TREU: He's an independent
6 attending consultant. You took his deposition.

7 MR. CUNNINGHAM: That's for you to
8 argue.

9 MR. TREU: It's a legal issue. He
10 has nothing to do with the hospital.

11 Q. If the neurologist would have said not to
12 do a lumbar puncture, in that hypothetical case,
13 knowing everything else in the record, what would
14 have been the accepted practice to follow?

15 MR. MURPHY: Objection.

16 MR. TREU: Objection.

17 A. The accepted practice of an attending who
18 has sought consultant advice is to interpret the
19 consultant's advice as it best applies to his or
20 her patient. And it would have been the
21 responsibility to Dr. Liberman to say, I don't know
22 that I agree with that opinion. I either will
23 ignore it, seek a second opinion or thirdly to
24 agree with it and follow the advice. If Dr.

1 Liberman felt his area of expertise was superseded
2 by the expert, I suspect he would follow the advice
3 of the expert in not doing the lumbar puncture.

4 But the specific issue here is what
5 is the interaction between an attending and a
6 consultant. In this case the consultant made a
7 recommendation that appeared plausible in the chart
8 as I went through it, was made by a neurologist
9 specifically asked to address the question of the
10 patient's neurologic status. And I think it was
11 entirely appropriate as a cardiologist for Dr.
12 Liberman to say to his team, "Let us follow the
13 advice given to us by our expert consultant."

14 Q. Let's go to page 3 of your report for a
15 moment. In the first complete sentence beginning
16 with, "Mr. Davis was returned to the intensive care
17 unit where continued monitoring throughout the
18 night of November 9 and the early morning of
19 November 10 revealed no significant bleeding at the
20 catheterization site in his right groin nor any
21 compromise to his peripheral arterial pulses."

22 My question to you is, what is the
23 relevance, if any, to the formation of the hematoma
24 to where you say no significant bleeding at the

1 catheterization site in his right groin. Is there
2 any relevance of that statement to the formation of
3 the subdural hematoma, or are you just making a
4 statement from a cardiologist's point of view?

5 A. In this particular instance the statement
6 is only made to indicate that standard post
7 angioplasty follow-up of this patient was performed
8 as documented in the chart in that there was an
9 attempt to look for and to exclude the presence of
10 bleeding at his catheterization site or evidence of
11 compromise in blood supply to his right lower
12 extremity as evidenced by the continued presence of
13 normal pulses.

14 Q. But that has nothing to do with any
15 neurologic check to determine whether or not a
16 subdural hematoma was forming in his --

17 A. Your question asked, did it have to do
18 specifically with the subdural hematoma in the
19 back. The statement does not apply to that. On
20 the other hand, and this is an assumption of the
21 statement that his peripheral arterial pulses were
22 intact, which suggests that when the nurse or
23 nurses checked his peripheral pulses that they were
24 normal. That would involve at least feeling the

1 distal pulses. And to whatever degree while doing
2 so they assessed his neurologic status of that leg,
3 there may very well have been a neurologic
4 assessment made.

5 Q. Well, that's sheer speculation, isn't it,
6 Doctor?

7 A. That is sheer speculation, except for the
8 one comment by the nurse who mentioned that the
9 patient was moving all extremities in her nursing
10 note.

11 Q. Do you consider that a neurologic check?

12 MR. TREU: Objection.

13 A. I think it's a statement of a neurologic
14 condition.

15 Q. We won't get into the neurologic aspects
16 of this case, because that's beyond your expertise,
17 isn't it, unless you want to.

18 A. The specific questions you asked me to
19 address were beyond my level of expertise.

20 Q. What did the echogram show, Doctor?

21 A. The echocardiogram performed on November
22 7, 1991 showed essentially no evidence of
23 significant left ventricular dysfunction, valvular
24 dysfunction, and there was the additional comment

1 that it was a technically difficult study.

2 Q. And what were the -- you mention in your
3 report in the last paragraph on page 3 that the
4 results of the lumbar puncture were known to the
5 cardiologist. What were those results?

6 MR. MURPHY: Where on page 3? Where
7 was that on page 3?

8 (Discussion off the record.)

9 MR. CUNNINGHAM: It's about 10 lines
10 down the middle of the last paragraph, "The results
11 of the lumbar puncture were known to the
12 cardiologist."

13 Q. And my question is, what were those
14 lumbar results?

15 A. They were the results of his lumbar
16 puncture, specifically the cell count and
17 chemistries.

18 MR. MURPHY: Do you want him to give
19 you what the results were?

20 MR. CUNNINGHAM: Yes, whatever.

21 Q. The reason I'm asking you, Doctor, you
22 say the results of the lumbar puncture were known
23 to the cardiologist, but you don't tell me in the
24 report what those results were. That's why I'm

1 asking you.

2 A. The results were a glucose of 66, a
3 protein of 110, a xanthochromic appearance to the
4 spinal fluid with a white blood cell count of 100
5 and a red blood cell count of 144,000. That was in
6 Tube No. 1. And in the final tube of the
7 collection, Tube No. 4, I don't have that here.

8 Q. When you read those results, what did
9 this mean to you?

10 A. It meant to me that blood had gotten into
11 the spinal fluid sample.

12 Q. Did it mean anything else?

13 A. No.

14 Q. So do I take it from that at least as
15 you're telling me the result was that it didn't
16 tell you anything more than that blood got into the
17 sample?

18 A. If I look at the entire report, the
19 glucose being in the 66 range, was at least within
20 the normal range. There is no comment in this
21 particular note whether a gram stain or other tests
22 for infection were done at that time. But
23 subsequent -- I could review that if you like,
24 whether there were cultures done and what they

1 showed looking for evidence of infection.

2 Q. You mentioned in the sentence just before
3 what I read to you, Doctor, that, "The lumbar
4 puncture was technically difficult because of the
5 patient's agitation and resulted in a 'traumatic'
6 or 'bloody' tap." What do you mean by traumatic or
7 bloody tap? What did you mean when you wrote that
8 in your report?

9 A. Specifically that red blood cells were
10 found in the spinal fluid, indicating that the tap
11 was, again, the euphemistic phrase is "bloody."
12 And that's what I meant when I wrote the sentence.

13 Q. When did you mean by "traumatic"?

14 A. As I went through the entire chart, it
15 became clear that the attempted lumbar puncture was
16 difficult because of the patient's confused and
17 agitated condition. It appears from reading the
18 notes that at least three attempts or roughly three
19 attempts were made to obtain the spinal fluid; and
20 that when the spinal fluid was finally obtained,
21 there was blood in it. And that sequence we often
22 call a traumatic tap, suggesting that a blood
23 vessel had been entered or injured or nicked at the
24 time of the attempted spinal tap allowing blood to

1 get in the specimen.

2 Q. By the needle?

3 A. Nicked by the needle, yes, sir.

4 Q. So it punctured a blood vessel?

5 A. Yes.

6 MR. TREU: He said "injured, entered,
7 nicked."

8 Q. And I said so it punctured a blood
9 vessel, and he said yes.

10 MR. TREU: That wasn't included in
11 what he said.

12 MR. CUNNINGHAM: And I just
13 paraphrased it, and he agreed with me.

14 Q. Would that be a blood vessel in a vein or
15 artery?

16 A. There's no way I can tell from this
17 whether it was arterial or venous.

18 MR. MURPHY: Dick, there's one thing
19 that's a matter of record. I could point it out to
20 him. He could change it now or later.

21 MR. CUNNINGHAM: Go ahead.

22 MR. MURPHY: That's why I brought it
23 up with you. He referred to these findings of
24 glucose of 66, et cetera, in the first tube. I

1 would direct him to the CSF sheet. That's not
2 borne out by that.

3 Q. Why don't you read that too, Doctor.

4 (A recess was taken.)

5 Q. We're ready to go on the record, and you
6 can read for the record where you're reading from.

7 A. I'm reading from the miscellaneous lab
8 sheet entitled Cerebrospinal Fluid Profile, which
9 specifically indicates that at the time of his
10 lumbar puncture his glucose was **60**, his protein was
11 110 and that Tube 2 had 79,000 red blood cells and
12 100 white cells and was xanthochromic, while Tube 3
13 had **143,000** red cells and roughly 100 white cells
14 and also was xanthochromic.

15 Q. What does that mean to you?

16 A. The same interpretation that I mentioned
17 earlier, that red blood cells had entered the
18 spinal tap specimen.

19 Q. How do we know, Doctor, when they said
20 three attempts, is there any way to do the lumbar
21 puncture -- I think it was shown that it started
22 once at **5:30**, once at **6:15** and once at quarter of
23 7:00. But, anyway, how do we know whether there
24 was fluid obtained on one occasion, two occasions

1 or three occasions? Is there anything in the
2 hospital records that would indicate where it says
3 three attempts were done whether or not any fluid
4 of any nature was obtained on the first attempt or
5 second attempt or third attempt? We know fluid was
6 obtained one time, and how would we know from the
7 record when it was done?

8 A. From the records I reviewed, there would
9 be no way I could answer that. It would be
10 speculation on my part having performed lumbar
11 punctures. But it would be purely that,
12 speculation.

13 Q. What's your speculation?

14 A. My speculation is that the first two
15 episodes at 1730 and 1815 hours were unsuccessful
16 in obtaining fluid. Now, I don't know whether or
17 not a spinal needle was employed to actually get
18 into the spinal space at that time or if the
19 patient at that moment was trying to be sedated or
20 stabilized and they couldn't even attempt a spinal

21

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1 and sequentially filled them, allowing for the
2 numerical value of 2, 3, 4 assigned to the tubes.
3 I suspect they got into the space and drained the
4 fluid in one setting rather than repeated entering
5 the space. But I emphasize that is pure
6 speculation.

7 Q. Doctor, on the last page, page 4 of your
8 report the first sentence reads as follows:
9 "Routine post angioplasty evaluation included
10 verifying the absence of bleeding at the site of
11 the femoral artery catheterization and verification
12 of continued adequate blood flow to the lower
13 extremities." Does that statement have any
14 relevance to the neurologic condition of the
15 patient, or does it only go to the cardiac care?

16 A. That's very similar to a question you
17 asked me a moment ago. And it would be my general
18 assumption that the nurse or nurses who verified
19 that he had adequate blood flow to his lower
20 extremities in so doing had an opportunity to
21 observe the neurologic status of his lower
22 extremities.

23 Q. And there again we get into speculation?

24 A. Yes, sir.

1 Q. Have you testified often before? How
2 often do you do this?

3 A. Well, not often. This is my second
4 deposition.

5 Q. Ever?

6 A. Ever.

7 (Discussion off the record.)

8 MR. CUNNINGHAM: I think that's it,
9 Doctor.

10 MR. TREU: Since I've adopted the
11 doctor as an expert in the case as well, I'm not
12 going to question him at this time.

13 (The deposition concluded at 3:00
14 p.m.)

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DEPONENT'S ERRATA SHEET & SIGNATURE

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The original of the errata sheet has been delivered to Patrick Murphy, Esq. When the errata sheet has been completed by the deponent and signed, a copy thereof should be delivered to each party of record and the original thereof delivered to Richard T. Cunningham, Esq., to whom the original deposition transcript was delivered.

INSTRUCTIONS TO DEPONENT

After reading this volume of your deposition, indicate any corrections or changes on your testimony and the reasons therefor on the errata sheet supplied to you, and sign it. DO NOT make marks or notations on the transcript volume itself.

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PLEASE REPLACE THIS PAGE OF THE TRANSCRIPT WITH THE COMPLETED AND SIGNED ERRATA SHEET WHEN YOU RECEIVE IT.

COMMONWEALTH OF MASSACHUSETTS

I, Carrie B. Thompson, Certified Shorthand Reporter and Notary Public in and for the Commonwealth of Massachusetts, do hereby certify that there came before me on the 24th day of August, 1995, at 1:30 p.m., the person hereinbefore named, who was by me duly sworn to testify to the truth and nothing but the truth of his knowledge touching and concerning the matters in controversy in this cause; that he was thereupon examined upon his oath, and his examination reduced to typewriting under my direction; and that the deposition is a true record of the testimony given by the witness.

I further certify that I am neither attorney nor counsel for, nor related to or employed by, any of the parties to the action in which this deposition is taken, and further that I am not a relative or employee of any attorney or counsel employed by the parties hereto or financially interested in the action.

In witness whereof, I have hereunto set my hand and seal this *25th* day of *August*, 1995.

Carrie B. Thompson

Carrie B. Thompson, Notary Public
My Commission expires:
Massachusetts CSR No. 133003
May 18, 2001