IN THE COURT OF COMMON PLEAS

DOC. 209

CUYAHOGA COUNTY, OHIO

JOSEPH E. DAVIS, ) Plaintiff, ) vs. ) UNIVERSITY HOSPITALS OF CLEVELAND, et al., ) Defendants. )

Deposition of IAIN H. KALFAS, M.D., F.A.C.S., a witness herein, called by the Plaintiff for cross-examination pursuant to the Rules of Civil Procedure, taken before me, the undersigned, Michael Christy, a Stenographic Reporter and Notary Public in and for the State of Ohio, at the offices of The Cleveland Clinic, 9500 Euclid Avenue, Cleveland, Ohio, on Thursday, the 3rd day of August, 1995, at 5:18 o'clock p.m.

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1	APPEARANCES :	Page 2		Page 4
* 2	On Behalf of the Plaintiff:		1	IAIN H. KALFAS, M.D., F.A.C.S.
3	Amer, Cunningham & Breanan co.,		2	of lawful age, a witness herein, having been first
4	L.P.A.		3	duly sworn, <b>as</b> hereinafter certified, deposed and
5	BY: Richard T. Cunningham, Attorney at Law		4	said <b>as</b> follows:
6	600 Society Building Akron, Ohio 44308		5	CROSS-EXAMINATION
7	On Behalf of the Defenddnt University		6	BY MR. CUNNINGHAM:
e	Hospitals of Cleveland:		7	Q. You pronounce your last name, is it Kalfas?
9	Arter & Hadden		8	A. Kalfas, correct.
10	BY: KrisH. Treu, Attorney at Law and		9	Q. <b>All</b> right.
11	Susan R. Massey, Attorney at Law Suite 1100, Hunringron Building Cloveland Obio 44115 1415	1	10	You're <b>a</b> neurosurgeon?
12	Cleveland, Ohio 44115-1475		11	A. Yes, I am.
13	On Behalf of <i>the</i> Defendant Randy A. Lieberman, H.D. <u>-</u>		12	Q. And you it's M.D., F.A.C.S.
14	Jecobaon. Maynard, Tuschman & Kalur		13	What's that stand for, Doctor?
15	Co., L.P.A.		14	A. Fellow of the American College of Surgeons.
16	BY: Patrick J. Hurphy, Attorney at Law and		15	Q. And you were board-certified I see three
17	Robert Welsh, Attorney at Law Suite 1600		16	years ago?
18	1001 Lakeside Avenue Cleveland, Ohio 44114-1192		17	A. Yes.
19			18	Q. All right. <i>Good</i> for you.
20			19	Now, we're here today to learn a little
21			20	about your report and a little about you, Doctor.
22			21	You have •• they have given us your report,
23		:	22	defense counsel on behalf of University Hospitals
24			23	I bclicve.
25			25	What were you asked to do?
			2_	A. I was asked to review records of Mr. Joseph
		Page 3		Page 5
1	INDEX		1	Davis' hospitalization at University Hospitals of
2	<b>EXAMINATION</b> PAGE		2	Cleveland in 1991 as well as some letters from
3	By Mr. Cunningham 4		3	Plaintiff experts and to give a recommendation as
4	By Mr. Xurphy 133		4	to whether or not the standard of care was met in
5			5	the management of Mr. Davis.
6	EXHIBITS MARKED		6	Q. Okay.
7	Plaintiff'a		7	And the rccords you reviewed are the ••
8	1 71		8	A. The hospital records from University
9	2 13		9	Hospitals
10	3 98		10	Q. All right.
11	4 109		11	A as well as Plaintiff expert witness
12	<b>\$</b> 110		12	letters as well as the deposition of Dr.
13	<b>6</b> 119	1	13	Liebcrman.
14	7 122		14	Q. Okay.
15	8 126		15	And the expert report from the Plaintiffs
16			16	consisted of a Dr
11		1	17	<b>A.</b> I have a Dr
19			18	Q. •• McPherson?
19		4	19	A McPherson, I have a Dr. Saltis, I have a
2.0		1	20	<b>Dr.</b> – I have Ms. Bums and I have a Dr
21		1	21	Q. cox?
22		1	22	A COX
		1	23	Q. Okay.
23		1	23 24	Do you know any of those experts?
:24		1	24 25	<b>A.</b> No.
25				

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1	I Saltis, I do know the name. I have met	1	litigation on their part.
2	him before because he was at affiliated with my	2	Q. Okay.
3	medical school, but I don't really know him	3	Have you testified before?
4	personally.	4	A. Yes.
5	Q. Okay.	5	Q. How many times?
6	He was a professor	6	A. I'd say probably about 15 to 20 times.
7	A. I believe so.	7	Q. Okay.
8	Q at the time you were	8	And what type of cases have you testified
9	A. I think so.	9	in?
10	Q. – a student?	10	A. Primarily the <b>personal</b> liability cases of
11	A. <b>I</b> think so.	11	patients of <b>mine</b>
12	Q. Okay.	12	Q. Okay.
13	Who asked you to do this work?	13	A that I'm subpoenaed to appear before.
14	A. Mr. Trcu.	14	Q. So you have testified on behalf of the
15	Q. And when did he ask you to do that?	15	plaintiff?
16	A. I believe that was back in March of this	16	A. Primarily as an expert witness for the
17	year.	17	patient
18	Q. Have you had any other dealings with the	18	Q. Okay.
19	Arter Hadden firm	19	A that I've treated.
20	A. Yes.	20	Q. Okay.
21	Q. <b> as an</b> expert?	21	Have you testified <b>on</b> behalf of the defense
22	A. As an expert, no.	22	before?
23	Q. Okay.	23	A. Not that <b>I'm</b> aware of, no.
24	I take it you've had some dealings in some	28	Q. Is this the first time you've ever testified
25	way with the Arter Hadden firm?	2	in a malpractice case?
	Page 7		Page 9
1	A. Some dealings, correct.	1	A. Yes.
2	Q. As a client?	2	Q. All right.
3	A. Yes.	3	<b>A.</b> As an expert witness for the defense.
4	Q. Okay.	4	Q. Yes.
5	I won't ask you anything more than that	5	A. Yeah.
6	<b>A.</b> Okay.	6	Q. Well, have you testified as an expert
7	Q but they've bccn a client?	7	witness for the plaintiff in a malpractice case?
8	A. I've bccn a client of theirs.	8	A. No.
9	Q. You've been a client of Arter Hadden?	9	A. One question I have
JLO	A. Right.	10	Q. Sure.
11	Q. Can you tell me which lawyer has represented	11	A. •• is as far as testifying, <b>I was</b> involved
12	you?	12	in a case that was brought against The Cleveland
112	A. Mr. Treu has and Mr. Stan Williams.	13	Clinic in which I testified, so if that counts
14	Q. Okay.	14	as
115	Have you had any dealings with the Maynard	15	Q. Okay.
1	Jacobson firm?	1.6	A. <b>– an</b> expert witness, <b>then</b> I was involved
16	<b>A.</b> Not that I'm aware of, no.	17	with that particular <b>case</b> .
11 <b>7</b>		18	Q. were you a party to that case?
18 10	Q. <b>All</b> right. Have you had any dealings with any other	19	<b>A.</b> I was a party in that case, correct.
19 20	defense counsel as an expert witness?	2:0	Q. Okay.
20	-	21	What was the result of that?
21	A. Other than expert witness for workers'	22	A. The result was <b>a</b> Settlement.
:22	compensation cases and personal liability, no.	23	Q. Settlement, okay.
23	Q. For workers' comp and personal?	1	•
:24	A. Yes, primarily serving as an expert witness	24 05	What documents did you review before
:25	for patients of mine who are involved in	25	preparing your report?
	A gas sisted Count Domenting Inc. (216) A34-8		

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	rage 10		Page 12
1	A. Primarily	1	question that University Hospital personnel had a
2	Q. Just what you've told me here?	2	to whether or not the person that's Joe Davis the
3	<b>A.</b> the things that I've told you.	3	patient had possible meningitis?
4	Q. Okay.	4	A. Correct.
5	What other information did you get, if	5	Q. Alright.
6	anything, receive, if anything, in preparing your	6	What is meningitis, Doctor?
7	report?	7	A. Meningitis is an inflammation of the
8	<b>A.</b> That's primarily it.	8	meninges, which are a portion of the covering of
9	Just a description of what transpired from	9	the brain and the <b>spinal</b> cord and spinal canal.
10	Mr. Treu, but basically most of the information I	10	When these meninges become infected, they
11	garnered words from the records that I told you	11	can produce a whole host of complications and
12	about.	12	symptoms, one of which is confusion and agitation.
13	Q. Okay.	13	Q. Well, what type of meningitis Creates
14	Did you refer to or read any medical	14	confusion and agitation?
15	literature in preparing your report?	15	A. All types
16	<b>A.</b> No.	16	Q. AI types
17	Q. Did you talk to any other doctors in	17	A can create confusion.
18	preparing your report?	18	Q can?
19	A. No, I didn't.	19	A. Yes.
20	Q. Do you know any arc you aware of the	20	Some will only present with headaches, some
21	other experts that are going to be testifying on	21	will present only with difficulty with sensitivity
22	behalf of defense in this case?	2 <b>E</b>	to light, some will present with only a fever and
23	A. I don't know the names, no	23	<b>some</b> will present with confusion and agitation.
2:4	Q. Okay.	24	A lot of it depends on what the organism is,
2'5	A other than Dr. Lieberman who I believe is	2:5	what the sensitivity of that particular patient is
	Dece 11		D 13
1	Page 11	1	Page 1 $\overline{3}$
1	a Dcfcndant.	1	and ssscntially the stage, the length of the
2	a Defendant. Q. <b>Yes.</b>	2	and ssscntially the stage, the length of the disease process.
2 3	a Dcfcndant. Q. <b>Yes.</b> Do you know him?	2 3	<ul><li>and ssscntially the stage, the length of the disease process.</li><li>Q. Is lethargy a symptom of meningitis?</li></ul>
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1	A. Not that I can recall.	1	stupor condition, stiff neck, fever, chills,
2	Q in this case in Joe Davis?	2	headache and nausea, would those be signs that you
3	A. Not that I can recall.	3	would look for in determining whether or not Mr.
4	Q. Is stiffness of the neck, is that a sign of	4	Davis had meningitis?
5	meningitis, Doctor?	5	MR. TREU: Objection.
6	A. Certainly can bc.	6	Go ahead.
7	Q. Was that symptom found in Joe Davis?	7	THE WITNESS: Yes.
8	A. Not that I can recall.	8	MR. CUNNINGHAM: All right.
9	Q. What about fever, Doctor; is that a sign	9	BY MR. CUNNINGHAM:
10	also?	10	Q. And if those signs, if you look for those
11	A. That can be, yes.	11	signs, would you make a note of that in your
12	Q. And was that found in Joe Davis?	12	diagnosis
13	<b>A.</b> Not that <b>I</b> can recall.	13	A. Yes.
14	Q. Chills, <b>is</b> that another sign?	14	Q. <b>somewhere</b> in <b>the</b> hospital records?
15	A. That can bc.	15	A. Usually.
16	Q. Can be a symptom?	16	Q. And wouldn't it be <b>good</b> medical practice
17	A. Right.	17	that <b>if</b> you're <b>looking</b> for <b>a</b> diagnosis of
18	Q. And was that found?	18	meningitis to look for those symptoms?
19	<b>A.</b> Not that I can recall.	19	MR. TREU: Objection.
20	Q. Headaches?	20	THE WITNESS: Yes.
21	<b>A.</b> Headaches certainly can be and I don't	21	BY MR. CUNNINGHAM:
22	recall	2'2	<b>Q.</b> And you would also then if you <b>look</b> for
2'3	Q. All right.	2'3	them, you would put that in the records, wouldn't
24	A seeing that either.	24	you?
215	<b>Q.</b> What about nausea; can that bc?	2.5	A. Usually I would.
1	Page 15 A. Yes.	1	Q. Sure.
2	Q. And was that found?	2	And you would also do a Kcrnig's sign,
3	<b>A.</b> No, not that I can recall.	3	wouldn't you, test?
4	<b>Q.</b> So we know that symptoms of lethargy,	4	<b>A.</b> Personally I have not done that.
5	stupor, stiff neck, fcvcr, chills, headaches and	5	Q. You've never done one?
6	nausea, all signs of meningitis, none of those	6	A. I have done it, but I don't do it recently
7	signs were found, were they?	7	because I don't - I'mnot a big believer of it.
8	A. correct.	8	Generally the patient will declare it
9	<b><i>Q</i></b> . What is a Kcrnig's sign, Doctor?	9	themself without the need to do a Kernig's test.
1.0	A. Kernig's sign is elevation of the leg and	10	In other words
11	neck with production of pain as a result of that	11	Q. Well, if
1.2	mancuvcr.	12	MR. TREU: Hold on. Let
13	Q. It's also flexion of the knee and hip, isn't	13	him finish the answer, Dick.
14	it?	14	MR. <b>CUNNINGHAM:</b> Okay, all
1.0	π.		
15	A. Right, extension of raising the leg is	15	right.
115 116	A. Right, extension of raising the leg is essentially	16	THE <b>WITNESS</b> : In other words,
1	A. Right, extension of raising the leg is	16 17	THE <b>WITNESS:</b> In other words, the patient that presents with clear-cut
16	<ul> <li>A. Right, extension of raising the leg is essentially</li> <li>Q. And that causes pain?</li> <li>A. Right.</li> </ul>	16 17 18	THE WITNESS: In other words, the patient that presents with clear-cut meningitis is not going to need a Kernig's sign to
11 <b>6</b> 1 <b>17</b>	<ul> <li>A. Right, extension of raising the leg is essentially</li> <li>Q. And that causes pain?</li> <li>A. Right.</li> <li>Q. And is that a sign or symptom of</li> </ul>	16 17 18 19	THE WITNESS: In other words, the patient that presents with clear-cut meningitis is not going to need a Kernig's sign to make the diagnosis.
1.6 1 <b>17</b> 18 19 20	<ul> <li>A. Right, extension of raising the leg is essentially</li> <li>Q. And that causes pain?</li> <li>A. Right.</li> <li>Q. And is that a sign or symptom of</li> <li>A. Certainly can be.</li> </ul>	16 17 18 19 20	THE WITNESS: In other words, the patient that presents with clear-cut meningitis is not going to need a Kcmig's sign to make the diagnosis. The lack of a Kernig's sign or the presence
16 1 <b>17</b> 18 19 20 21	<ul> <li>A. Right, extension of raising the leg is essentially</li> <li>Q. And that causes pain?</li> <li>A. Right.</li> <li>Q. And is that a sign or symptom of</li> <li>A. Certainly can be.</li> <li>Q meningitis?</li> </ul>	16 17 18 19 20 21	THE WITNESS: In other words, the patient that presents with clear-cut meningitis is not going to need a Kernig's sign to make the diagnosis. The lack of a Kernig's sign or the presence of a Kernig's sign itself is not necessarily
1.6 117 18 19 20 21 22	<ul> <li>A. Right, extension of raising the leg is essentially</li> <li>Q. And that causes pain?</li> <li>A. Right.</li> <li>Q. And is that a sign or symptom of</li> <li>A. Certainly can be.</li> <li>Q meningitis?</li> <li>A. Yes.</li> </ul>	16 17 18 19 20 21 22	THE WITNESS: In other words, the patient that presents with clear-cut meningitis is not going to need a Kernig's sign to make the diagnosis. The lack of a Kernig's sign or the presence of a Kernig's sign itself is not necessarily indicative of a meninges process.
1.6 1.17 1.8 1.9 20 21 22 23	<ul> <li>A. Right, extension of raising the leg is essentially</li> <li>Q. And that causes pain?</li> <li>A. Right.</li> <li>Q. And is that a sign or symptom of</li> <li>A. Certainly can be.</li> <li>Q meningitis?</li> <li>A. Yes.</li> <li>Q. Now, Doctor, if you were there at that time</li> </ul>	16 17 18 19 20 21 22 23	THE WITNESS: In other words, the patient that presents with clear-cut meningitis is not going to need a Kcmig's sign to make the diagnosis. The lack of a Kernig's sign or the presence of a Kernig's sign itself is not necessarily indicative of a meninges process. BY MR, CUNNINGHAM:
1.6 117 18 19 20 21 22	<ul> <li>A. Right, extension of raising the leg is essentially</li> <li>Q. And that causes pain?</li> <li>A. Right.</li> <li>Q. And is that a sign or symptom of</li> <li>A. Certainly can be.</li> <li>Q meningitis?</li> <li>A. Yes.</li> </ul>	16 17 18 19 20 21 22	THE WITNESS: In other words, the patient that presents with clear-cut meningitis is not going to need a Kernig's sign to make the diagnosis. The lack of a Kernig's sign or the presence of a Kernig's sign itself is not necessarily indicative of a meninges process.

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1	Page 18		Page 20
1	A. If it was positive in the presence of these	1	which diagnosis you were <b>talking</b> about.
2	other factors	2	MR. TREU: I didn't
3	Q. Other signs?	3	either.
4	A then that certainly could, but you asked	4	MR. CUNNINGHAM: Oh, all right.
5	<b>me</b> if <b>I</b> would do it.	5	BY MR. CUNNINGHAM:
6	I probably have just not really paid much	6	Q. Now, Doctor. <b>if</b> there had <b>been</b> no suspicion
7	attention of it and, therefore, have not done it.	7	of meningitis at all
8	Q. Now, Doctor, there was some indication that	8	A. Uh-huh.
9	the patient was in confusion for other reasons,	9	Q. – would a lumbar puncture have been done
10	other than <b>a</b> possible meningitis, wasn't there?	10	A. If the there was no
11	A. Correct.	11	Q. $-$ in this case?
12	Q. What were the	12	MR. TREU: Objection.
13	A. I believe there was a question of anoxie	13	If you know.
14	encephalopathy.	14	<b>THE</b> WITNESS: Probably not.
15	Q. And what <i>are</i> the symptoms of that?	15	MR. CUNNINGHAM: Yeah.
16	A. Well, you can have confusion and	16	BY MR. CUNNINGHAM:
17	disorientation associated with that.	17	Q. They had already done <b>a</b> cat scan, hadn't
18	Q. And agitation?	18	they?
19	<b>A.</b> You can have agitation.	19	A. Right.
20	Q. Doctor, where was this diagnosis made in the	20	Q. And what was the purpose of doing that cat
21	hospital, do you know?	21	scan?
22	<b>A.</b> I don't, no, not off the top of my head.	22	A. To rule out any intracranial cause for the
23	Q. Well, do the hospital records tell where	23	confusion.
24	thcy •• where it was made?	25	Q. All right.
25	A. Yeah. they probably do.	2	So from the records, do they show that the
		1	
	Page 19		Page 21
1	Q. Was it in the room?	1	only at least from your review of the records
2	<ul><li>Q. Was it in the room?</li><li>A. I can probably look through it.</li></ul>	1 2	only at least from your <b>review</b> of the records <b>show that the only reason they were doing a lumbar</b>
2 3	<ul><li>Q. Was it in the room?</li><li>A. I can probably look through it.</li><li>Q. Okay.</li></ul>	1 2 3	only at least from your review of the records show that the only reason they were doing a lunbar puncture was to determine whether or not there was
2 3 4	<ul> <li>Q. Was it in the room?</li> <li>A. I can probably look through it.</li> <li>Q. Okay.</li> <li>MR. TREU: what's the</li> </ul>	1 2 3 4	only at least from your review of the records show that the only reason they were doing a lunbar puncture was to determine whether or not there was meningitis?
2 3 4 5	<ul> <li>Q. Was it in the room?</li> <li>A. I can probably look through it.</li> <li>Q. Okay. MR. TREU: what's the question; where</li> </ul>	1 2 3 4 5	<ul> <li>only at least from your review of the records</li> <li>show that the only reason they were doing a lunbar puncture was to determine whether or not there was meningitis?</li> <li>A. I believe so, simply because the CT scan had</li> </ul>
2 3 4 5 6	<ul> <li>Q. Was it in the room?</li> <li>A. I can probably look through it.</li> <li>Q. Okay.</li> <li>MR. TREU: what's the question; where</li> <li>MR, CUNNINGHAM: where it was</li> </ul>	1 2 3 4 5 6	<ul> <li>only at least from your review of the records</li> <li>show that the only reason they were doing a lunbar puncture was to determine whether or not there was meningitis?</li> <li>A. I believe so, simply because the CT scan had showed primarily only a small lacunar infarct in</li> </ul>
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 :18 :19 20 21 22	<ul> <li>Q. Was it in the room?</li> <li>A. I can probably look through it.</li> <li>Q. Okay. MR. TREU: what's the question; where MR. CUNNINGHAM: where it was made. MR. TREU: where was what made? MR. CUNNINGHAM: Where the diagnosis was made. THE WITNESS: I believe he was brought into the cardiac intensive care, so I presume that's where this diagnosis was made MR. CUNNINGHAM: okay. THE WITNESS: - but I just</li> <li>can't recall a particular note. MR. MURPHY: Are you referring to the diagnosis of anoxic encephalopathy or you just MR, MURPHY: okay.</li> </ul>	1 2 3 4 5 6 7 8 9 1.0 1.1 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>only at least from your review of the records</li> <li>show that the only reason they were doing a lurbar puncture was to determine whether or not there was meningitis?</li> <li>A. I believe so, simply because the CT scan had showed primarily only a small lacunar infarct in the right inner capsule which in and of itself would not explain the confusion.</li> <li>So they were, to the best of my knowledge as far as just reviewing the records without having been there, doing an LP to search for a source of confusion.</li> <li>Q. You of course as a neurosurgeon, you've done quite a few</li> <li>A. Many.</li> <li>Q lumbar punctures I would imagine?</li> <li>A. Right.</li> <li>Q. And is that the field or an expertise that a neurosurgeon or a neurologist would</li> <li>A. Well, generally anyone can really - any physician can do a lumbar puncture. The technique in doing it is probably</li> </ul>

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1	allow a layperson to <b>d</b> o, but certainly someone	1	Q. Paralysis?
2	who's a physician and is capable of using their	2	A. Right, paralysis or incomplete deficit.
3	hands can do a lumbar puncture.	3	Q. Now, in the training of a person who had a
4	Q. Well, you're not going to allow a nurse to	4	lumbar puncture, what training is done, Doctor?
5	do it, arc you?	.5	Have you taught?
6	A. I do know nurses that have done this before,	6	A. Yes.
7	so it's certainly not something that is beyond	7	Generally at least in my - the way I
8	that.	8	learned was I watched someone do one and then I
9	I generally when I'm having a patient of	9	was supervised to do one and then I was doing one.
10	mine undergo a lumbar puncture, one of my	10	Q. And where was this at, Doctor?
11	residents, anywhere from a first, second or	11	<b>A.</b> This was <b>a</b> primarily here.
12	third-year resident is usually doing the lumbar	12	I did – I watched several while I was at
13	puncture but, no, I have not had a nurse do it	13	Akron City Hospital <b>as</b> a medical student, but did
14	before.	14	several while $\mathbf{I}$ was a resident here at The
15	Q. Well, if a nursc has done it, has the nurse	15	Cleveland Clinic.
16	1 1 7	16	Q. Okay.
17	A. I don't know.	17	Who do you know down at Akron City Hospital
18	Q. I guess I'm just trying to compare that with	18	that you watched?
19	the drawing of blood.	19	A. Oh, geez, offihe top of my head I can't
20	A. Right.	20	recall. It was probably one of the residents.
2'1	Q. In the drawing of blood	21	Q. Well, was it?
22	A. Wcll, I'm just	22	A. Yeah, a resident down there.
2'3	<i>Q</i> . Just a moment.	23	Q. But you don't remember?
24	A. Sure.	24	A. No.
25	Q. Seems the drawing of blood seems to be a	25	It was probably <b>14</b> , <b>15</b> years ago.
	Page 23		Page 25
1	much simpler task than doing a lumbar puncture.	1	Q. Oh, all right.
2	A. Well, having donc both, I can tell you I	2	Let's go through the procedure of lumbar
3	probably have more difficulty drawing blood than	3	puncture for a moment, Doctor.
4	doing a lumbar puncture.	4	What type of nccdlc is used?
5	Q. Okay.	5	A. Generally it's called a spinal needle and
6	Well, in doing a lumbar puncture, that could	6	essentially it's just a long needle that has a
7	create a problem with the spinal cord, could it	7	beveled end on it, beveled so that it separates
8	not, if you don't do it right?	8	the fibers of the dura and the ligamenta flava
9	A. Not with the spinal cord.	9	rather than tearing the dura.
10	It can create a problem with the spinal cord	10	It's a blunt needle, it's anywhere from 20
11	if it's donc higher. The spinal cord ends	11	to <b>22</b> gauge in <b>size</b> and it has a stylette down
1.2	Q. At the	12	through the middle so that <b>as</b> you put the nccdle
1.3	A. – at the upper lumbar region, particularly	13	in through the <b>muscles</b> and soft tissues and the
14	the L1-2 level.	14	ligamenta flava you're not occluding that <b>opening</b>
1.5	Generally lumbar punctures are done down	15	with muscle and fat and whatever.
16	below at the L3-4 level. so not cause a problem	16	Then once you get into where you feel the
17	with the spinal cord directly.	17	spinal fluid is, you can remove that stylette and
18	In this <b>casc</b> it causes a problem indirectly	18	hopefully get the <b>free flow</b> of spinal fluid.
119	by contributing to the formation of a hematoma.	19	Q. Okay.
20	Q. But a lumbar puncture from a person <b>not</b>	20	Doctor, in <b>doing a lumbar puncture</b> , how much
1/21	knowing whom to put it in it that put it in	22	recordkeeping is done in a hospital?
21	knowing where to put it in, if they put it in		
22	higher than L3-4?		A. When 1 did them – and that's really all I
2 <b>2</b> 23	higher than L3-4? A. Certainly if they had a lumbar puncture up	2 23	A. When 1 did them – and that's really all I can <i>speak</i> for I simply noted 'Lumbar puncture
22	higher than L3-4?		A. When 1 did them – and that's really all I

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1			Page 28
1	describe the color of the fluid.	1	Q. And they had to be held down?
2	Q. How would we know in this case, Doctor, as	2	A. Yes.
3	to the type of needle that was used, that is, the	3	Q. Have you ever taken one of <b>a</b> patient that
4	gauge?	-4	was already strapped to the bed?
5	A. I don't think you'd at least I never	5	A. No, because we have to unstrap them to put
6	noted what gauge nccdlc was used.	16	them in a fetal position <b>on</b> their side in that
7	Q. Certainly isn't shown in these records, is	7	particular case.
8	it?	В	<b>Q.</b> Right.
9	A. Correct.	<u>!9</u>	Do you know how the lumbar puncture, in
10	Q. How would we know, Doctor, whether <b>a</b>	10	doing the lumbar puncture in this case, as to what
11	stylctte was used?	11	movement the Plaintiff was going through at the
12	A. Well, I don't know of any other way but	12	time that the lumbar puncture was being performed?
13	using a spinal needle to do a CSF, so I guess I'm	13	A. I think Dr. Lieberman's testimony stated
14	presuming that <b>a</b> spinal nccdlc was used and that	14	that he was sitting <b>leaned</b> over <b>a</b> hospital table
15	comes with a stylette.	1.5	with Dr. Lieberman in front of the patient and I
16	Q. Now, Doctor, what is the from a patient's	16	think it was a Dr. Cerino doing the lumbar
17	point of view bcforc getting a lumbar puncture,	17	puncture from behind.
18	what instructions or discussions arc given to	18	Q. All right.
19	the are given to $\mathbf{c}$ with the patient?	19	Which is the preferred method, Doctor, from
20	A. Generally that wc are obtaining spinal fluid	20	your end •• from your point of view; doing it
21	for whatever reason, that we will numb up a	21	where the patient's in a lying on his side or
22	portion of the skin over the lower lumbar region.	<b>2</b> 2	her side in a fetal position or sitting up on the
23	wc'rc going to ask them to assume a position	23	edge of the bed?
24	either curled up on their side or sitting up bent	24	MR. TREU: Objection.
25	forward over a table, that they will essentially	25	That assumes there's a preferred way.
	Page 27		Page 25
1	feel the Novocaine going in, they'll feel burning	1	Go ahead.
2	as a result of that, but after that they really	2	THE <b>WITNESS</b> : Doesn't make
3	should not feel that much pain; if they do, please	3	any difference to mc. Whatever's comfortable for
4	notify us, we'll give you more Novocaine.	4	the patient.
5	That's real the extent of my discussion of	5	MR. CUNNINGHAM: Okay.
6	an LP with patients undergoing this.	6	BY MR. CUNNINGHAM:
7	Q. And what about the movement of the patient;	7	Q. Now, Doctor, what do the records show as to
8	what do you tell the patient to do?	8	what took place in the doing of this lumbar
9	A. Oh, afterwards the only thing I'll do is	9	puncture procedure?
10	just maybe have him lie down for four to	10	A. Apparently I think it was November 8th, if
11	Q. No.	11	I'm not mistaken, an attempt was made I think at
12	Before you begin the lumbar puncture, what	12	5:30 p.m. that was unsuccessful, I think another
13	do you tell the patient about being still and	13	45 minutes later a second attempt was made
14	quict?	14	Q. What
15	A. Oh. Just it's kind of assumed in the	15	A. •• that was unsuccessful.
16	discussion, but if there is any agitation	16	Q. When was the second attempt made?
17	obviously we'll take the necessary precautions,	17	A. I believe that was 45 minutes later, so
18	for instance, getting several people to help hold	18	approximately 6:15 p.m.
19	the patient down to be able to get a quiet field	19	Q. Okay.
1	the patient down to be able to get a quiet need		
20	in order to do the lumbar puncture; but very	2	A. And then finally at 6:45 a third attempt was
1		2 21	A. And then finally at 6:45 a third attempt was made <b>and</b> fluid was obtained.
20	in order to do the lumbar puncture; but very	1	· ·
20 21	in order to do the lumbar puncture; but very rarely will I have to tell the patient to remain still. It's more assumed in an individual.	21	made and fluid was obtained.
20 21 22	in order to do the lumbar puncture; but very rarely will I have to tell the patient to remain still. It's more assumed in an individual. Q. Have you ever taken a spinal puncture of a	21 22	made and fluid was obtained. I believe the reason for obviously the
20 21 22 23	in order to do the lumbar puncture; but very rarely will I have to tell the patient to remain still. It's more assumed in an individual.	21 22 23	made and fluid was obtained. I believe the reason for obviously the multiple attempts, number one, they were unable to

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10000			rage 32
1	give him a little break from the assault on his	1	after the lumbar puncture I want to know about
2	lumbar spine.	2	that; but <b>as</b> far <b>as</b> the number of attempts, no,
3	Q. Do the records indicate who was in the room?	3	I've never told them to tell me and <b>I've</b> never
4	A. I believe from Dr. Lieberman's testimony, he	4	really <b>asked</b> them about that.
.5	and Dr. Cerino and then I think two residents and	5	Sometimes I hear it from the patient; but to
6	I'm blanking on their names.	6	answer your question, no, I would not expect them
7	A Dr. <b>Woo</b> maybe and a Dr. Kerchynski.	7	to notify me if they're not – if they're still
8	I don't know if I'm pronouncing that	8	having some problems.
9	correctly.	9	If they get to <b>a</b> point where they're just
10	Q. Do you know those two residents, of what	0	unable to, I'm sure they would call me.
11	rotation they were in?	1	I've never been in that position.
12	A. No, I don't.	2	Q. How far is the needle – how far does the
13	Q. Do you know what year they were in?	3	<b>needle</b> invade the body to where <b>–</b>
14	A. No, I don't.	4	A. The needle invades the body from the surface
15	I think <b>Cerino</b> was a second-year resident	5	of the skin down to the level of the lamina,
16	that was rotating in the cardiac care, but I don't	6	through the ligamenta flava, which is also at the
17	know what the other two were.	7	level of the lamina, through the dura, into the
18	Q. You're not certain if hc was first-ycar or	8	thecal sac where the spinal fluid is.
19	second-ycar?	9	That distance depending on the size of
<b>2</b> 0	A. I believe in the testimony of Lieberman he	!0	individual will vary anywhere from three to six
21	talked about him turning becoming a second-year	2:2	inches, to a grossly obese individual you might
22	resident in July of '91; and since this was in		have to use <b>an</b> extra-long needle.
23	November of '91, I presume at that time he's still	23	Q. And how do you know when you've when you
24	a second-year resident.	24	have entered far enough to get the fluid?
25	Q. All right.	25	A. Generally you can <b>feel</b> the bone.
	Page 31		Page 33
1	Doctor, if they were having this difficulty	1	You can walk it down the bone and you can
2	at three times to do that and this was your	2	essentially feel it pop into a little soft tissue
3	patient and you were would you want to be	3	space and then by removing the stylette you will
4	apprised that the first attempt and then the	4	hopefully see the <b>free flow</b> of spinal fluid.
5	second attempt and then going into a third	5	Q. There's like a give that you feel?
6	attempt, would you want to be apprised of that	6	<ul><li>A. Yes, you certainly can feel that.</li><li>Q. Then when you feel the give, then if there's</li></ul>
7	before they tried the second and third attempts?	7	O THEIR WHEN YOU ICCLINE GIVE THEIR IT THERE S I
8	A Net was a south the second Price has a first	0	· · ·
	A. Not necessarily, because <b>I've</b> been in that	8	a at that point you remove the stylette?
9	position mysclf and I know that putting a needle	9	<ul><li>a at that point you remove the stylette?</li><li>A. And hopefully you'll see spinal fluid.</li></ul>
10	position mysclf and I know that putting a needle in involves placing the needle through a depth of	و 10	<ul><li>a at that point you remove the stylette?</li><li>A. And hopefully you'll see spinal fluid.</li><li>Q. You'll see spinal fluid?</li></ul>
10 1 1	position mysclf and I know that putting a needle in involves placing the needle through a depth of tissue which can be anywhere from three to six	9 10 11	<ul> <li>a at that point you remove the stylette?</li> <li>A. And hopefully you'll see spinal fluid.</li> <li>Q. You'll see spinal fluid?</li> <li>A. Right.</li> </ul>
10 11 12	position mysclf and I know that putting a needle in involves placing the needle through a depth of tissue which can be anywhere from three to six inches in depth first of all.	9 10 11 12	<ul> <li>a at that point you remove the stylette?</li> <li>A. And hopefully you'll see spinal fluid.</li> <li>Q. You'll see spinal fluid?</li> <li>A. Right.</li> <li>Q. Now, Doctor, what happens if you go too far?</li> </ul>
10 11 12 13	position mysclf and I know that putting a needle in involves placing the needle through a depth of tissue which can be anywhere from three to six inches in depth first of all. Number two, you're trying to place this	9 10 11 12 13	<ul> <li>a at that point you remove the stylette?</li> <li>A. And hopefully you'll see spinal fluid.</li> <li>Q. You'll see spinal fluid?</li> <li>A. Right.</li> <li>Q. Now, Doctor, what happens if you go too far?</li> <li>A. If you go too far, you can go through the</li> </ul>
10 11 12 13 14	position mysclf and I know that putting a needle in involves placing the needle through a depth of tissue which can be anywhere from three to six inches in depth first of all. Number two, you're trying to place this needle into a very small window between the lamina	9 10 11 12 13 14	<ul> <li>a at that point you remove the stylette?</li> <li>A. And hopefully you'll see spinal fluid.</li> <li>Q. You'll see spinal fluid?</li> <li>A. Right.</li> <li>Q. Now, Doctor, what happens if you go too far?</li> <li>A. If you go too far, you can go through the other side and you go actually go through the</li> </ul>
10 11 12 13 14 15	position mysclf and I know that putting a needle in involves placing the needle through a depth of tissue which can be anywhere from three to six inches in depth first of all. Number two, you're trying to place this needle into a very small window between the lamina above and the lamina below, so many times what	9 10 11 12 13 14 15	<ul> <li>a at that point you remove the stylette?</li> <li>A. And hopefully you'll see spinal fluid.</li> <li>Q. You'll see spinal fluid?</li> <li>A. Right.</li> <li>Q. Now, Doctor, what happens if you go too far?</li> <li>A. If you go too far, you can go through the other side and you go actually go through the thecal sac and not get any flow of spinal fluid.</li> </ul>
10 11 12 13 14 15 16	position mysclf and I know that putting a needle in involves placing the needle through a depth of tissue which can be anywhere from three to six inches in depth first of all. Number two, you're trying to place this needle into a very small window between the lamina above and the lamina below, so many times what you're mercly doing is hitting bone with the	9 10 11 12 13 14 15 16	<ul> <li>a at that point you remove the stylette?</li> <li>A. And hopefully you'll see spinal fluid.</li> <li>Q. You'll see spinal fluid?</li> <li>A. Right.</li> <li>Q. Now, Doctor, what happens if you go too far?</li> <li>A. If you go too far, you can go through the other side and you go actually go through the thecal sac and not get any flow of spinal fluid. You would probably know that because you</li> </ul>
10 11 12 13 14 15 16 17	position mysclf and I know that putting a needle in involves placing the needle through a depth of tissue which can be anywhere from three to six inches in depth first of all. Number two, you're trying to place this needle into <b>a very</b> small <b>window</b> between <b>the</b> lamina above and the lamina below, so many times what you're merely doing is hitting bone with the needle.	9 10 11 12 13 14 15 16 <b>17</b>	<ul> <li>a at that point you remove the stylette?</li> <li>A. And hopefully you'll see spinal fluid.</li> <li>Q. You'll see spinal fluid?</li> <li>A. Right.</li> <li>Q. Now, Doctor, what happens if you go too far?</li> <li>A. If you go too far, you can go through the other side and you go actually go through the thecal sac and not get any flow of spinal fluid. You would probably know that because you know that the needle being that size, if you're in</li> </ul>
10 11 12 13 14 15 16 17 18	position mysclf and I know that putting a needle in involves placing the needle through a depth of tissue which can be anywhere from three to six inches in depth first of all. Number two, you're trying to place this needle into a very small window between the lamina above and the lamina below, so many times what you're mercly doing is hitting bone with the needle. So it is not uncommon and I've certainly had	9 10 11 12 13 14 15 16 17 18	<ul> <li>a at that point you remove the stylette?</li> <li>A. And hopefully you'll see spinal fluid.</li> <li>Q. You'll see spinal fluid?</li> <li>A. Right.</li> <li>Q. Now, Doctor, what happens if you go too far?</li> <li>A. If you go too far, you can go through the other side and you go actually go through the thecal sac and not get any flow of spinal fluid. You would probably know that because you know that the needle being that size, if you're in to the hilt in a very thin person you've probably</li> </ul>
10 11 12 13 14 15 16 17 18 19	position mysclf and I know that putting a needle in involves placing the needle through a depth of tissue which can be anywhere from three to six inches in depth first of all. Number two, you're trying to place this needle into a very small window between the lamina above and the lamina below, so many times what you're merely doing is hitting bone with the needle. So it is not uncommon and I've certainly had the situation myself where I've backed off, gone	9 10 11 12 13 14 15 16 <b>17</b> 18 19	<ul> <li>a at that point you remove the stylcttc?</li> <li>A. And hopefully you'll see spinal fluid.</li> <li>Q. You'll see spinal fluid?</li> <li>A. Right.</li> <li>Q. Now, Doctor, what happens if you go too far?</li> <li>A. If you go too far, you can go through the other side and you go actually go through the thecal sac and not get any flow of spinal fluid. You would probably know that because you know that the needle being that size, if you're in to the hilt in a very thin person you've probably gone too far. You're either off to one side</li> </ul>
10 11 12 13 14 15 16 17 18 19 20	<ul> <li>position mysclf and I know that putting a needle in involves placing the needle through a depth of tissue which can be anywhere from three to six inches in depth first of all.</li> <li>Number two, you're trying to place this needle into a very small window between the lamina above and the lamina below, so many times what you're merely doing is hitting bone with the needle.</li> <li>So it is not uncommon and I've certainly had the situation mysclf where I've backed off, gone back in and obtained fluid on the second or third</li> </ul>	9 10 11 12 13 14 15 16 <b>17</b> 18 19 20	<ul> <li>a at that point you remove the stylette?</li> <li>A. And hopefully you'll see spinal fluid.</li> <li>Q. You'll see spinal fluid?</li> <li>A. Right.</li> <li>Q. Now, Doctor, what happens if you go too far?</li> <li>A. If you go too far, you can go through the other side and you go actually go through the thecal sac and not get any flow of spinal fluid. You would probably know that because you know that the needle being that size, if you're in to the hilt in a very thin person you've probably gone too far. You're either off to one side outside the spinal canal or you're through the</li> </ul>
10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>position mysclf and I know that putting a needle in involves placing the needle through a depth of tissue which can be anywhere from three to six inches in depth first of all.</li> <li>Number two, you're trying to place this needle into a very small window between the lamina above and the lamina below, so many times what you're merely doing is hitting bone with the needle.</li> <li>So it is not uncommon and I've certainly had the situation myself where I've backed off, gone back in and obtained fluid on the second or third attempt.</li> </ul>	9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>a at that point you remove the stylette?</li> <li>A. And hopefully you'll see spinal fluid.</li> <li>Q. You'll see spinal fluid?</li> <li>A. Right.</li> <li>Q. Now, Doctor, what happens if you go too far?</li> <li>A. If you go too far, you can go through the other side and you go actually go through the thecal sac and not get any flow of spinal fluid. You would probably know that because you know that the needle being that size, if you're in to the hilt in a very thin person you've probably gone too far. You're either off to one side outside the spinal canal or you're through the spinal canal.</li> </ul>
10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>position mysclf and I know that putting a needle in involves placing the needle through a depth of tissue which can be anywhere from three to six inches in depth first of all.</li> <li>Number two, you're trying to place this needle into a very small window between the lamina above and the lamina below, so many times what you're merely doing is hitting bone with the needle.</li> <li>So it is not uncommon and I've certainly had the situation myself where I've backed off, gone back in and obtained fluid on the second or third attempt.</li> <li>So if I direct my - if your question is</li> </ul>	9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>a at that point you remove the stylcttc?</li> <li>A. And hopefully you'll see spinal fluid.</li> <li>Q. You'll see spinal fluid?</li> <li>A. Right.</li> <li>Q. Now, Doctor, what happens if you go too far?</li> <li>A. If you go too far, you can go through the other side and you go actually go through the thecal sac and not get any flow of spinal fluid. You would probably know that because you know that the needle being that size, if you're in to the hilt in a very thin person you've probably gone too far. You're either off to one side outside the spinal canal or you're through the spinal canal.</li> <li>Q. Uh-huh.</li> </ul>
10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>position mysclf and I know that putting a needle in involves placing the needle through a depth of tissue which can be anywhere from three to six inches in depth first of all.</li> <li>Number two, you're trying to place this needle into a very small window between the lamina above and the lamina below, so many times what you're merely doing is hitting bone with the needle.</li> <li>So it is not uncommon and I've certainly had the situation myself where I've backed off, gone back in and obtained fluid on the second or third attempt.</li> <li>So if I direct my - if your question is whether or not I direct my residents to tell me if</li> </ul>	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>a at that point you remove the stylcttc?</li> <li>A. And hopefully you'll see spinal fluid.</li> <li>Q. You'll see spinal fluid?</li> <li>A. Right.</li> <li>Q. Now, Doctor, what happens if you go too far?</li> <li>A. If you go too far, you can go through the other side and you go actually go through the thecal sac and not get any flow of spinal fluid. You would probably know that because you know that the needle being that size, if you're in to the hilt in a very thin person you've probably gone too far. You're either off to one side outside the spinal canal or you're through the spinal canal.</li> <li>Q. Uh-huh.</li> <li>A. Those are the two things that would happen</li> </ul>
10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>position mysclf and I know that putting a needle in involves placing the needle through a depth of tissue which can be anywhere from three to six inches in depth first of all.</li> <li>Number two, you're trying to place this needle into a very small window between the lamina above and the lamina below, so many times what you're merely doing is hitting bone with the needle.</li> <li>So it is not uncommon and I've certainly had the situation myself where I've backed off, gone back in and obtained fluid on the second or third attempt.</li> <li>So if I direct my - if your question is</li> </ul>	9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>a at that point you remove the stylcttc?</li> <li>A. And hopefully you'll see spinal fluid.</li> <li>Q. You'll see spinal fluid?</li> <li>A. Right.</li> <li>Q. Now, Doctor, what happens if you go too far?</li> <li>A. If you go too far, you can go through the other side and you go actually go through the thecal sac and not get any flow of spinal fluid. You would probably know that because you know that the needle being that size, if you're in to the hilt in a very thin person you've probably gone too far. You're either off to one side outside the spinal canal or you're through the spinal canal.</li> <li>Q. Uh-huh.</li> </ul>

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ł	1 agu J7	[	Page 36
.1	area?	1	Q. So a person that doesn't have the skill that
2	A. Subarachnoid space.	2	you would have, the chances of getting more bloody
3	Q. space?	3	taps than you would be greater?
-4	A. The subdural space at that point at the	4	MR. TREU: Objection.
5	level where a lumbar puncture is usually done is	5	THE WITNESS: I don't know if
16	where you want to be. That's where the spinal	6	it would be or not.
7	fluid is.	7	It's <b>- as I</b> said, tight now at my stage in
8	It's beneath the arachnoid, which is	8	my career I'm doing very few lumbar punctures.
9	immediately beneath the dura, and that's	9	My residents probably have more experience
16	essentially where you want to be.	10	in the last three or four <b>years</b> in doing lumbar
11	You want to <b>be in</b> the subarachnoid space.	11	punctures than <b>I do</b> , so at this particular point <b>I</b>
12	Q. Okay.	12	have more experience, yet I feel more comfortable
13	If it is done properly, would you ever get a	13	probably with them doing it tight now.
14	bloody tap?	14	I can certainly do a lumber puncture, but
15	A. Certainly could.	15	certainly my residents in the second and
16	Q. And how would that happen?	16	third-year level are currently capable of
17	<b>A.</b> By cither getting a vein or <b>an artery</b> that	17	performing good <b>lumber</b> punctures.
18	runs through the thecal sac, either along a nerve	18	Q. Do you know what experience <b>Dr.</b> Cerino had
19	root.	19	in doing this lumbar puncture?
20	The nerves - csscntially what will happen	2	A. I don't <b>know</b> the number of lumber punctures
21	is generally it's very difficult to pierce a	21	he had, no.
22	nerve.	22	Q. So you would not agree with the statement or
23	Occasionally you'll brush up against it and	23	would you agree with the statement that a bloody
24	that individual might fccl sharp pain going down	24 25	tap can be avoided if done properly?
25	their leg; but if there's a vcsscl that's running	<u> </u>	A. You can do a bloody – you can do a lumbar
	Page 35	1	Page 37
1	along the course of that particular nerve, a very	1	puncture properly and still get a bloody tap.
2	small-caliber vessel, theoretically that vessel	23	<ul><li>Q. So true or true or true or false?</li><li>A. I guess basically</li></ul>
3	can be injured by the needle passing in there. So yes, you can even though you get a	4	Q. A bloody tap can be avoided if done
4 5	correct tap, you can get - or correct placement	5	properly.
1	of the needle, you can get a bloody tap.	6	True or false?
6 7	<i>q</i> . Well, how often would you get a bloody tap.	7	A. False.
8	out of 10 lumbar punctures?	8	Q. Okay.
9	<b>A.</b> Out of 10 that <b>I've</b> donc, <b>I</b> would say maybe	9	When did this bloody tap occur, do you know;
10	one or two I will get a bloody tap.	10	the first, second or third time?
11	Q. So 20 percent of the time?		<b>A.</b> Well, they didn't get any spinal fluid or
12	<b>A.</b> 10 to 20 percent of the time and, yeah, you	12	blood on the first two, so I presume that it was
13	try to shoot for a clear-cut tap, but a lot of it	:13	the third try at 6:45 p.m. on November 8th.
14	is just not only skill, but also a little bit of	:14	Q. And what werc the results of the lumber
15	luck too and	15	puncturc?
16	Q. Well	:16	A. Well, he had blood in the – in the spinal
17	A I've done taps where I've gone in on the	:17	fluid, and I don't know off the top of my head
18	first pass and gotten blood back, so it's	18	exactly what the cell count was or the white blood
19	there's a little degree of luck involved in doing	:19	cell count.
20	these taps.	:20	1118, do you have that?
21	Q. Would you say there's a lot of skill and a	:21	MR. <b>TREU:</b> I don't know.
22	little bit of luck?	:22	Was it in the progress notes or in the
23	A. Right.	23	THE <b>WITNESS:</b> Usually they'll
1	0	1.04	put it there, but I don't have a lab report here.
24	Q. Is that how you	24	put it more, but I don't nave a lab report nere.
24 25	Q. Is that how you A. Correct.	24 25	Off the top off of my head I don't know

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1	Page 38		Page 40
1	BY MR. CUNNINGHAM:	1	tell.
2	<i>Q</i> . Well	2	Q. <b>Can</b> you find that?
3	A other than	3	A. Do you have that?
4	Q. •• take a moment and look at the records.	4	MR. TREU: (Handing.)
5	MR. TREU: I have the	.5	THE WITNESS: Glucose 44,
6	labs. Is that a good place to look?	6	protein 110.
7	THE WITNESS: yeah.	7	This is reading from the printed hospital
8	Just checking the date here.	-8	record, and again I can't read the <b>red</b> blood ccll
9	Cerebrospinal fluid; color of the spinal	9	count or the white <b>blood</b> cell accurately off this
10	fluid red, clarity cloudy.	10	xerox copy.
11	BY MR. CUNNINGHAM:	11	MR. CUNNINGHAM: Okay.
12	Q. What are you reading, Doctor?	12	BY MR. CUNNINGHAM:
13	A. I'm reading <b>a</b> lab report from the University	13	<b>Q.</b> Doctor, if the only symptoms this person Joe
14	Hospitals and	14	Davis had of confusion and agitation, would you
15	<b>Q.</b> What date?	15	have ordered <b>a</b> lumbar puncture?
16	A. I'm looking for the date here. 11/8.	16	MR. TREU: Objection as. to
17	In 11/8/91, out 11/11/91 and I can't — you	17	what he would or wouldn't have done. It's not the
18	know, just from the xcrox here and it is <b>poor</b>	18	issue in the case –
19	xerox	19	BY MR. CUNNINGHAM:
<b>2</b> 0	MR. TREU: It's a bad	20	Q. You can answer.
21	сору	21	MR. TREU: – but <b>go</b>
22	<b>THE</b> WITNESS: See if they	2'2	ahead.
23	have it in the in the notes here. Keep that	2'3	THE WITNESS: Well,
24	open there.	24	retrospectively, probably not.
25	MR. TREU: Okay, sure.	25	I can't fault someone, though, for in a
	Page 39		Page 41
1	Progress notes.	1	situation where we have a confused patient and a
1 2	Progress notes. MR. MURPHY: There's an 11/9	2	situation where we have a confused patient and a relatively unremarkable CT scan, at least a CT
	Progress notes. MR. MURPHY: There's an 11/9 progress note 3:15 a.m. that has the results I	2 3	situation where we have a confused patient and a relatively unremarkable CT scan, at least a CT scan that only shows a lacunar infarct in the
2	Progress notes. MR. MURPHY: There's an 11/9 progress note 3:15 a.m. that has the results I think of the CSF.	2 3 4	situation where we have a confused patient and a relatively unremarkable CT scan, at least a CT scan that only shows a lacunar infarct in the internal capsule without any other explanation for
2 3	Progress notes. MR. MURPHY: There's an 11/9 progress note 3:15 a.m. that has the results I think of the CSF. THE WITNESS: "Status post	2 3 4 5	situation where we have a confused patient and a relatively unremarkable CT scan, at least a CT scan that only shows a lacunar infarct in the internal capsule without any other explanation for a mental status, it's hard for me to argue with
2 3 4 5 6	Progress notes. MR. MURPHY: There's an 11/9 progress note 3:15 a.m. that has the results I think of the CSF. THE WITNESS: "Status post LP."	2 3 4 5 6	situation where we have a confused patient and a relatively unremarkable CT scan, at least a CT scan that only shows a lacunar infarct in the internal capsule without any other explanation for a mental status, it's hard for me to argue with someone who's aggressively trying to pursue the
2 3 4 5 6 7	Progress notes. MR. MURPHY: There's an 11/9 progress note 3:15 a.m. that has the results I think of the CSF. THE WITNESS: "Status post IP." MR. TREU: There you go.	2 3 4 5 6 7	situation where we have a confused patient and a relatively unremarkable CT scan, at least a CT scan that only shows a lacunar infarct in the internal capsule without any other explanation for a mental status, it's hard for me to argue with someone who's aggressively trying to pursue the source of this individual's confusion.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 ;22	<ul> <li>Progress notes.</li> <li>MR. MURPHY: There's an 11/9</li> <li>progress note 3:15 a.m. that has the results I think of the CSF. THE WITNESS: "Status post</li> <li>IP."</li> <li>MR. TREU: There you go. THE WITNESS: okay.</li> <li>Lab CSF: Glucose 66, protein 110, diff/cell count xantho, x-a-n-t-h-o. Xanthochromic means it's cloudy.</li> <li>WBCS and white blood cell count is 100,</li> <li>RBC Count is 144K, meaning 144,000. MR. CUNNINGHAM: Okay.</li> <li>EY MR. CUNNINGHAM: Okay.</li> <li>EY MR. CUNNINGHAM: Okay.</li> <li>G. Now you're reading from the patient's notes, Doctor?</li> <li>A. I'm reading from a I don't know who signed this.</li> <li>I don't know if this is Lieberman or not.</li> <li>It's in the progress notes of the patient.</li> <li>Q. Okay.</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>situation where we have a confused patient and a relatively unremarkable CT scan, at least a CT scan that only shows a lacunar infarct in the internal capsule without any other explanation for a mental status, it's hard for me to argue with someone who's aggressively trying to pursue the source of this individual's confusion.</li> <li>BY MR. CUNNINGHAM:</li> <li>Q. Well, you're not telling me that you would order merely on the symptoms of confusion and agitation that you would order a lumbar puncture?</li> <li>A. You certainly could.</li> <li>Q. In every case?</li> <li>A. Not in every case.</li> <li>I take it into the context of what that individual has presented with and how confused they are and what the other studies, radiographic and lab studies look like at that particular time. So for me to do a lumbar puncture, I do not have to have that whole constellation of symptom that we went through earlier or else I'd be wouldn't be doing lumbar punctures in anybody.</li> </ul>

1	A. Yes.	1	A. Yes.
2	Q would you have ordered a lumbar puncture	2	Second paragraph
3	in this case?	3	Q. Last sentence.
4	MR. TREU: Objection.	4	A. Okay.
5	THE WITNESS: Retrospectively,	5	Q. "He then stated that Heparin could be
6	no.	6	started following the lumbar puncture."
7	BY MR. CUNNINGHAM:	7	A. Correct.
8	Q. Let's forget the retrospective for a moment.	8	Q. Now, what was the purpose of starting
9	Looking back, because we know that there was	9	Heparin at that time after the lumbar puncture?
10	no meningitis	10	A. In looking at the record, I thought that
11	A. Well	<b>1</b> 1	they were kind of between a rock and a hard place
12	Q. •• but you yourself back there, I'm asking	12	obviously having done a lumbar puncture but also
13	you first - this is discovery. I can ask him	13	having an individual who had a cardiac problem
14	this question.	14	that would have eventually required Heparin.
15	A. sure.	15	<b>Q.</b> Well, the records indicated <b>as</b> to when he
16	Q. You're a good doctor.	16	was going to have <b>his</b> angioplasty, didn't it?
17	I want to know as to if you were there	17	A. Uh-huh.
18	attending to Joe Davis on November 8th and you had	18	Q. And it was – when was it initially
19	those records and you had what you have in the	19	scheduled for?
20	hospital record, would you have ordered a lumbar	20	A. I don't know when it was initially scheduled
21	puncture in this case.	21	for. I know when it was done.
22	MR. TREU: Are you wait	22	Q. Well, going through an angioplasty, you
23	<b>a</b> minute.	23	don't bcgin Heparin until several hours before the
24	I don't know what your answer is going to	24	operation; isn't that right?
25	bc, but I just want to point out the fact that he	25	A. For angioplasty?
	Page 43		Page <b>45</b>
1	docs not Dr. Kalfas did not review the Aultman	I	I'm not familiar with the timing there.
2	rccords so I don't know to what extent those come	2	Q. Okay.
3	into the picture.	3	So you don't know that?
4	Just so that's on the record.	4	A. No.
5	MR. TREU: Go ahead.	5	Q. Well. if the – why would the neurologist be
6	THE WITNESS: Retrospectively	6	the one that's ordering Heparin following a lunbar
7	I would say no.	7	puncture?
8	I have to say retrospectively since I wasn't	8	A. I don't know other than I don't <i>think</i> he's
9	there, number one, I would not make a decision to	1	ordering it; he's simply saying start that the
10	do a lumbar puncture based simply on someone's	10	Heparin can be started following the lumbar
11	notation.	111	puncture.
12	I would examine the patient myself and make	12	Q. Well, isn't that an order?
13	<b>a</b> decision there.	:13	A. No.
14	Since I wasn't there, I have to say	14	MR. TREU: It's a
15	retrospectively, no, I wouldn't.	:15 :16	recommendation <b>according</b> to the consult note. <b>BY</b> MR. CUNNINGHAM:
16	MR. CUNNINGHAM: <b>All</b> right.	:16 :17	Q. Well, why would a neurologist be
17	<b>BY</b> MR. CUNNINGHAM:	.17 .18	recommending the starting of Heparin <b>after</b> the
18	Q. So I take it what you're telling me, that	.10 .19	lumbar puncture?
19	just looking at the records there without	.19 20	A. I can only presuppose that he was in
20	examining <b>this</b> person <b>you</b> would not <b>have</b> done it? A. Probably not.	20	discussion with the people taking care of Mr.
21	Q. <b>All</b> right.	21	Davis, but I have no idea why
22 23	Now, in your report you mention the second	23	Q. Okay.
23	paragraph, the last statcment the last sentence	23	<b>A.</b> he would mention that at that time.
24	of that second paragraph, Doctor, you got that?	25	Q. Well, from a neurologist's point of view or
100	Associated Court Ponorting Inc. (216) 434-8	<u> </u>	Page <b>47 - Page 4</b>

Page 42 - Page 4<sup>-</sup>

I	- "O" ."		rage 48
1	a neurosurgeon's point of view, would doing	1	If a patient has a brain turnor or brain
2	within your field, Heparin wouldn't enter into	2	abscess with raised intracranial pressure and a
3	your recommendation, would it?	3	lumbar puncture is done from below, that can
4	A. Depends on the situation.	4	result in herniation and even death of a patient.
5	I've never ordered Heparin immediately	5	That's why usually a cat scan is obtained
6	following a lumbar punctum.	6	prior to a lumbar puncture.
7	Q. Well, why would any neurologist order	7	You can have a hematoma <b>as</b> a result of <b>a</b>
-8	Heparin following a – or even recommend Heparin	B	lumbar puncture.
9	following a lumbar puncture?	19	Q. What type—
10	A. I don't know.	10	A. Those are
11	<b>I'm</b> only saying that in this particular	11	Q. of hematoma would that be?
12	instance I can only presume that he was asked to	12	A. You can have either an intradural hematoma,
13	specifically comment on that but, again, that's	13	an epidural bematoma, subarachnoid hematoma all in
14	just a supposition on my part and I don't know	14	all three layers from the thecal sac out.
15	simply because I was not there and I don't have	15	Q. When you were doing a lumbar puncture or
16	all the facts available to me by having been	16	when you had done lumbar punctum, is that one of
17	there.	17	the complications that you could anticipate and
18	Q. Well, certainly Hcparin wouldn't have	18	look for?
19	anything to do with the treatment of the spinal	19	A. You could.
20	system	20	It's extremely rare. I've nover seen it,
21	A. Absolutely not.	21	but certainly it's something that you could if
22	Q or the brain or anything clsc, would it?	22	you asked mc to list all the possible
23	A. Absolutely not, unless we're dealing with a	23	complications, that's <b>a</b> possibility.
24	stroke	24	Q. Well, that's <b>a</b> known complication, isn't it?
25	Q. Yeah.	25	A. Sure.
	Page 47	1	Page 49
1	A or a nonhemorrhagic stroke.	1	Q. It's in every textbook at least I've read; I
2	<ul><li>A or a nonhemorrhagic stroke.</li><li>Q. Now, Heparin of course is an anticoagulant,</li></ul>	1 2	Q. It's in every textbook at least I've read; I imagine every textbook that you've read on lumbar
2 3	<ul><li>A or a nonhemorrhagic stroke.</li><li>Q. Now, Heparin of course is an anticoagulant, isn't it?</li></ul>	1 2 3	Q. It's in every textbook at least I've read; I imagine every textbook that you've read on lumbar puncture?
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		¥	Q. NOW, DOCIOF, IF YOU had been the attending
2	they?	2	neurologist for Joe Davis at that time and you
3	A. Correct.	3	knew that <b>there was</b> a bloody tap and that they
4	Q. Did you notice in the deposition of Dr.	4	started him on Heparin the next morning for
5	Liebcrman he had never heard of a bloody tap?	5	angioplasty, what procedure monitoring-wise would
6	A. Correct.	6	you have ordered or directed the staff to <b>look</b>
7	Q. Did that surprise you?	7	for?
8	A. To a degree.	8	MR. TREU: Objection.
9	Q. In your third paragraph, Doctor, of your	9	That assumes he would have ordered any
10	report again, the last – next to the last sense	10	monitoring.
11	sentence you say "This is termed a traumatic	11	THE WITNESS: Okay.
12	lumbar puncture"?	12	BY MR. CUNNINGHAM:
13	A. Correct.	13	Q. Let me say if - would you have made it
14	Q. And that's what another term for that is	14	would you have made <b>some</b> orders?
15	<b>a</b> bloody tap?	15	A. Probably not.
16	<b>A. A</b> bloody tap can be one of those things.	16	I certainly can say retrospectively you can
17	It can be a traumatic tap or it can be due	117	say "Check leg function every four to eight
18	to an intracranial subarachnoid hemorrhage.	18	hours," but having never bccn in that position of
19	The two can - nced to be differentiated,	19	starting Heparin after a lumbar puncture I
20	because if I get bloody fluid back on the spinal	20	probably would not have done it.
21	fluid in an individual who I felt the tap went	21	Same thing with
22	fairly well, then I have to dctcrmine whether or	22	Q. You would not have done what?
23	not this is secondary to inadvertent injury to a	23	A. Would not have written for some monitoring.
24	vessel in the subdural or epidural space or if	24	As I said, retrospectively certainly you
25	blood was present in the spinal fluid before I	25	could argue that that should have been the case
	Page 51	1	Page 53
1	even got therc.	1	here, but retro but if I had been in that
2	Q. And in this case it was the former, wasn't	2	position I probably would not have ordered
3	it, Doctor?	3	monitoring of his leg function.
4	A. It appears to be the former traumatic tap.	4	Q. Why not?
5	Q. <b>An</b> inadvertent injury to a blood vessel?	5	A. Just would not have crossed my mind to do
6	A. Correct, correct.	6	that.
7	So that's the difference between a traumatic	7	Q. Well, we know, Doctor, that a known
8	tap and a bloody tap.	8	complication of a lumbar puncture is a hematoma;
9	Q. Okay.	9	isn't that right?
10	A. A bloody tap is more all-inclusive.	10	A. Correct.
11	A traumatic tap is more specific.	11	Q. And especially, of course, if it's a bloody
2	Q. Now, Doctor, do you know why the suggestion	12	tap, right?
13	to give Heparin after following the lumbar	13	A. Correct.
14	puncture was not carried through at that time?	14	Q. Now, when you combine that with the use of
: 5	A. I don't know why.	15	Heparin which is an anticoagulant, a blood
:6	Q. It wasn't, though, was it?	16	thinner, wouldn't that multiply this problem of
17	A. It doesn't appear to be, no.	17	having a hematorna?
18	Q. Okay.	18	A. Well, the reason I say that is that a known
19	Now, as shown in the fourth paragraph of	19	complication is a hematoma. It's a very rare
30	your report, that intravenous Heparin was starred	20	known complication, very rare.
21	the next morning at 7:00 a.m.; is that right?	21	I've never written monitoring orders in any
22	A. Correct.	22	patient I've had a lumbar puncture performed in.
23	Maybe been 7:00 o'clock. My last review	23	Q. Doctor, have you
24	shows it may have been around 8:00 o'clock, but	24	A. Having
25	roughly in that window of time.	25	<b>Q.</b> Go ahcad. <b>I</b> don't mean to interrupt you.
		00	Page 50 - Page 53

i	I age Ja		Page 56
1	A. Having not donc placed someone on Heparin	1	never written monitoring orders for a patient of
2	after a lumbar puncture, I'm mercly saying that if	2	mine undergoing a lumbar puncture and now I have
3	I were in that situation I probably would not have	3	this setting, I probably would not have done that.
4	ordered monitoring following that.	4	BY MR. CUNNINGHAM:
5	Q. Well -	5	Q. Well, what type if you're going to do
6	A. Now, retrospectively I can say that probably	6	some - let's assume it happens today, all right?
7	wouldn't have been a great idea, but you asked me	7	A. Uh-huh.
8	would I have donc that and I'm honestly telling	8	Q. Now, you're the neurologist and you end up
9	you	9	with a bloody tap and the person's going in for an
10	Q. All right.	10	angioplasty and they start Heparin 13 hours after
<b>1</b> 1	A probably not simply because I've never	<b>1</b> 1	the bloody tap.
12	donc it in a setting of just doing a lumbar	12	What would you do today?
13	puncturc.	13	MR. TREU: Objection.
14	Q. Well	14	THE WITNESS: In that casc
15	A. Hematoma is $a know$ complication, but I've	15	I'd - knowing what I know now, I'd just have them
16	never seen it in the over 200 lumbar punctures	16	take check his feet - foot function and leg
17	that I've scen.	17	function maybe <b>on</b> an every four hours.
18	Q. Have you ever been involved in a case where	18	BY MR. CUNNINGHAM:
19	a lumbar puncture resulting in a bloody tap	19	<b>Q.</b> That's all you'd ask them to <b>do</b> ?
<b>2</b> 0	happens and then the patient is given Heparin like	20	A. Uh-huh. Yeah.
21	they were giving?	21	Q. Are there any other neurological checks you
22	MR. TREU: Wait a minute.	22	can do to determine whether or not that
23	THE WITNESS: No.	23	A. well, you
2a	BY MR, CUNNINGHAM:	2 <b>a</b>	Q. Let me fmish.
25	Q. In this case of Joe Davis, have you ever	25	A. Okay.
	Page 55		Page 57
1	Page 55 bccn in <b>a</b> situation like that?	1	Page 57 Q. •• to determine whether or not a hematoma is
1 2	-		Q to determine whether or not a hematoma is forming?
	bcen in <b>a</b> situation like that? <b>MR.</b> TREU: When? <b>MR.</b> CUNNINGHAM: Any.	1	<ul><li>Q to determine whether or not a hematoma is forming?</li><li>A. I suppose you can check rectal tone every</li></ul>
2	bccn in <b>a</b> situation like that? <b>MR.</b> TREU: When? <b>MR.</b> CUNNINGHAM: Any. MR. TREU: When was the	1 2	<ul><li>Q to determine whether or not a hematoma is forming?</li><li>A. I suppose you can check rectal tone every two to four hours.</li></ul>
2 3	bccn in a situation like that? MR. TREU: When? MR. CUNNINGHAM: Any. MR. TREU: When was the Heparin given? At any time?	1 2 3	<ul><li>Q to determine whether or not a hematoma is forming?</li><li>A. I suppose you can check rectal tone every two to four hours.</li><li>Q. Check what?</li></ul>
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2 3 4 5 6 7 8 9	bccn in a situation like that? MR. TREU: When? MR. CUNNINGHAM: Any. MR. TREU: When was the Heparin given? At any time? MR. CUNNINGHAM: The same as happened here. MR. TREU: 12 hours MR. CUNNINGHAM: Yeah.	1 2 3 4 5 6 7 8 9	<ul> <li>Q to determine whether or not a hematoma is forming?</li> <li>A. I suppose you can check rectal tone every two to four hours.</li> <li>Q. Check what?</li> <li>A. Rectal tone, inserting a digit into the patient's rectum</li> <li>Q. A finger?</li> <li>A for function.</li> </ul>
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2 3 4 5 6 7 8 9 10 11	bccn in a situation like that? MR. TREU: When? MR. CUNNINGHAM: Any. MR. TREU: When was the Heparin given? At any time? MR. CUNNINGHAM: The same as happened here. MR. TREU: 12 hours MR. CUNNINGHAM: Yeah. MR. TREU: - 14 hours? MR. CUNNINGHAM: Right.	1 2 3 4 5 6 7 8 9 10 11	<ul> <li>Q to determine whether or not a hematoma is forming?</li> <li>A. I suppose you can check rectal tone every two to four hours.</li> <li>Q. Check what?</li> <li>A. Rectal tone, inserting a digit into the patient's rectum</li> <li>Q. A finger?</li> <li>A for function. Exactly.</li> <li>Q. Sphincter function?</li> </ul>
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1	Nothing's irreversible until a year out	1	Q. – there's been no change in his paralysis,
2	after treatment.	2	if I were to tell you that, would you agree that
3	If you present initially at one point in	3	his paraplegia would be permanent?
4	timc with paraplegia, there's no way you can	4	<b>A.</b> It's permanent given that definition,
5	classify that as irreversible.	5	correct -
6	You <b>need</b> two points in time.	6	Q. Yeah.
7	Generally about a year out when we do	7	A but it's not permanent at the time of
8	dccompression of nerve roots or spinal cord I'll	8	discovery.
9	tcll my patients that we're going to did	9	<b>Q.</b> Now, in your last paragraph, Doctor, you say
10	decompress this, we're going to take the pressure	10	"Ifeel that the hematoma was related to the
11	off the nerves and we're going to <b>see if</b> this	11	lumbar puncture and the <b>Heparin</b> therapy"; is that
12	nerve or spinal cord will recover; and then what	12	correct?
13	I'll tell them is how you are <b>at</b> one year after	13	A. Correct.
14	this procedure, after this decompression is	14	Q. I take it from that you're saying - I think
15		15	we're agreeing on this – that, number one, that
16	So if they have any deficits at one year out	16	the hematoma resulted – directly resulted from
17	from my surgery or my procedure that I've done to	17	the lumbar puncture and the Heparin therapy?
18	decompress their nerves or spinal cord, at that	18	A. Correct.
19	point in time I'll probably tell them this is	19	Q. All right.
20	irreversible damage.	20	Now, had the lumber puncture never bccn done
21	But looking at a point in time immediately	21	in this <b>case</b> , that he just <b>went</b> in for the
212	at the onset of the paraplegia and classifying it	22	angioplasty, had his operation and came out, would
23	as irreversible I don't think I don't agree	23	Joe Davis have any paraplegia today?
24	with anyone who would say that that is	24	A. Probably not.
25	irreversible.	25	Certainly spontaneous hemorrhages are
	Page 59		Pagc 61
1	Q. Well, was the decompression surgery	1	possible, but I've never seen one and I would
2	successful?	2	classify <b>in</b> as extremely rare.
3	A. The decompression surgery was successful at	3	So to answer your question, probably not.
4	removing the hematoma.	4	Q. Like snow in July, right?
5	Q. But not all the hematoma was removed, was	5	<b>A.</b> Very similar to that.
6	it?	6	Q. Okay.
7	A. The hematoma that could be removed.	7	Have you ever heard of the term laminectomy
8	It's just like removing a tumor. You're	8	checks?
9	not you never completely remove a tumor.	9	A. I've probably heard of it in the past, but I
10	there's always microscopic portions.	10	think it's a more arcane <b>term</b> these days.
11	It was successful in satisfactorily	11	Q. Done by older neurosurgeons?
12	decompressing the neural elements in the spinal	:12	A. I don't know.
113	canal.	:13	I may have drawn it out of my past there,
114	Q. At the time that Mr. Joe Davis was	:14	but I do plenty of laminectomies and I've nevcr
15	discharged from the hospital, what do the records	15	referred to anything as a laminectomy check.
:16	reflect as to his paraplegic condition?	:16	Q. Well, you've heard of the term neurological
:17	A. Hc was still paraplegic.	17	checks, haven't you?
18	Q. All right.	: <b>18</b>	A. Yes.
:19	Arc you aware of his condition today?	: <b>19</b>	<b>Q.</b> Okay.
20	A. No, I'm not.	20	A. I presume they're one and the same.
:21	Q. If I were to tell you that he is permanently	:21	Q. All right.
:22	paraplegic today and hc's been permanently	:22	What neurological – if you were going to
:23	paraplegic since hc's bccn paraplegic since the	:23	monitor Joe Davis if this happened today and you
:24	hematoma formed	:24	say "Oh, I now <b>see</b> what can happen "
25	A. Uh-huh.	:25	A. Uh-huh.
L		1	<b>D</b> aga 50 Daga (1

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1	Q. " and I'm going to do some neurological	1	A. Low yield, in other words, testing someone's
2	checks," tcll mc again what neurological checks	2	scnsory function is not going to give me a
3	you would do.	3	sensitive indicator what is going on with his
4	A. I would primarily be interested in moving		lower portion of the spinal cord and the cauda
	his feet and his bending his knees.	4	
5	-	5	equina, the nerve <b>roots</b> that come out off the end,
6	That to me as a neurosurgeon is going to	6	lower end of the spinal cord.
7	tcll mc more than testing pin-prick sensation over <b>a</b> kneecap or the dorsum of the foot.	7 	What's going to <b>be</b> more important to me and
8	-	E	what's going to be an indicator of whether or not
'9 10	Q. Wcll, how would you determine muscle strength?	. '9 10	I need to <b>lock</b> for something to operate on is not
	c	10	numbress in the lcgs.
11	5	11	<b>I'm</b> not – very rarely going to recommend
12		12	any surgery for numbness in the legs. I'm more
13		13	concerned about motor function and what someone's
14	5 66 6	14	legs <i>are</i> doing from <b>a</b> motor standpoint.
15	scale of 1 to 5; with 5 being normal, 4 being able		Q. Well, Doctor, if laminectomy checks and
16	6 1	16	neurological checks would have been done in this
17	· 8 6	17	case, would the hematoma been able to be
18	6	18	determined much earlier than it was determined?
19		19	A. Well, I mean, my problem there is
20	that muscle group.	20	determining when the hematoma developed, number
21	That's how I'd monitor it.	21	one, and when it was identified.
22	Q. Would you do patella and ankle reflexes?	22	The earliest that I can really find it
23	A. I personally wouldn't.	23	identified is the patient saying at
24	I couldn't fault anybody for ordering that,	24	approximately at least from a note here in the
25	but personally I wouldn't because it really	2'5	progress notes that "Hey, my legs aren't moving,"
	Page 63		Page 65
1	docsn't it's not a sensitive indicator of	1	and the that's the earliest that I can find any indication of when that hometoms began
2	what's going on.	2	indication of when that hematoma began. I don't have any other indication of
3	Q. And would you do an anal sphincter?	3	where when the hematoma started simply because
4	A. I probably wouldn't bccausc, again, I'm	4	1.2
5	going to get more information primarily from just	5	I don't have anything to compare it to.
6	motor examination.	6	I don't have an MRI performed at noon that
7	Q. What about lack of scnsation, other tests	7	day to show that there's no hematoma there or that
8	for lack of sensation?	8	there is a hematoma there.
9	A. Probably not.	9	So the only thing I really have to go on in
10	Q. Well, aren't isn't lack of sensation and	10	drawing that conclusion is the patient at least
11	muscle strength for movement, aren't both of those	11	noting in a note at 4:00 o'clock on <b>I think</b> it's
12	symptoms of hematoma forming on the spinal cord?	12	the 10th that he's having trouble moving his legs,
1.3	A. Oh, they certainly are.	13	Q. Well, certainly. Doctor, neurological checks
14	I'm just telling you as a neurosurgeon what	14	would have indicated a hematoma far before the
15	I would do and wouldn't do	15	patient himself says "Ican't move my legs,"
16	Q. Yeah.	16	wouldn't it?
17	A and basically what I would focus on is	17	A. It certainly could.
18	primarily the motor examination.	18	Q. I mean, that's the whole purpose of
19	Am I going to <b>do</b> a complete neurological	19	neurological checks, isn't it?
20	cxamination on an individual like in this setting	20	A. Certainly could.
21	every two hours? Probably not, because it's going	21	You're presuming, though, that this is a
22	to <b>be</b> a low yield.	22	gradual onset of symptoms.
23	I'm going to do primarily I want to know	23	If you have an acute onset of symptoms, then
24	what those lcgs arc doing from a motor standpoint.	:'4	no, it wouldn't.
25	Q. What do you mean a low yield, Doctor?	:/5	If you have an acute onset of a hematoma

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1	that produces acute onset of motor deficit, then	1	basic knowledge of Heparin is that it does not
2	no, it's not going to show it any carlicr.	2	generally <b>dissolve</b> clots, it certainly can allow
3	Q. Doctor, you don't think this was an acute	3	for the development of a hematoma and I presume
4	onsct of symptoms	4	it's by either failure of an intimal tear in an
5	A. I don't know if it was.	5	artery or a vein to heal itself or by somehow just
6	Q at 3:00 o'clock?	6	allowing a slow leak to eventually produce <b>a</b>
7	A. I don't know.	7	hematoma.
8	Q. Well, the records don't support you in that,	8	Q. So you're saying that you don't have the
9	do they?	9	expertise to tell, do you, Doctor, to give an
10	A. Well, the records don't support anything	10	opinion as to when the onset of this hematoma
11	clsc cithcr other than a hematoma developed, it	11	began?
12	was first noted at 4:00 o'clock in the afternoon	12	A. Exactly.
13	and that's all I have to go on.	13	Q. Is that what you're telling me?
14	Q. Well, a hematoma can either be unclotted	14	A. I've had -looking at the records, I can't
15	<b>blood</b> or clotted blood, right?	15	tell when it started.
16	A. Correct.	16	I can <b>only</b> note that the <b>at 4:00</b> o'clock
17	Q. And this was clotted blood, wasn't it?	17	on the 10th the patient said "My legs aren't
18	A. Clotted at the time of the operation?	18	moving" and
19	Q. Yeah.	19	Q. All tight.
20	A. Right, but you can't assume that a hematoma	20	A. – that's what I have to go on.
21	develops at the time a bloody tap is obtained.	21	Q. Now, on the first paragraph of page 2 you
22	Everybody in this case is assuming that	22	say "On November 10th, the nursc's note at 8:00
23	that's when the hematoma began. That's not	23	a.m. indicated that Mr. Davis was moving all
214	necessarily the casc.	2	extremities"?
25	Now, I have never seen a bloody tap turn	215	A. Correct.
	Page 65		Page 65
1	into a symptomatic hematoma, so at the very	1	Q. Can you find that for mc?
2	earliest we're talking about combining the fact	2	A. Okay.
3	that he had a bloody tap with the fact that he's	3	8:00 o'clock, "Alert, oriented to person,
4	now on Heparin 13 or 14 or whatever hours later	4	place and time."
5	so, ycah, it certainly can be an acute onset.	5	Q. Wait.
6	Can I prove that? Of course I can't, but I	6	Go a little slower so can he take it.
7	can't prove the other way either.	7	A. Okay.
8	I'm simply saying I don't know and I don't	8	This is under Neurological Status on the
9	think anyone else is qualified to say that they do	9	CICU baseline assessment, a nurse's note, and this
10	know on this.	10	is dated 11/10/91, time 0800 by a person named I
11	Q. What was the effect of the Heparin in this	11	want to say <b>Bass</b> , B-a-s-s.
12	<b>casc</b> on causing the hematoma?	12	Under Neurological Status he or she writes
13	<b>A.</b> I think the combination of the bloody tap	13	"Alert, oriented to person, place and time. Slept
14	with the Heparin certainly led to a •• the fact	1.4	for long periods, easily arousable. MAE, which
15	1 · ·	1	• • • • • • • • • • •
	that he had a hematoma; and whether or not this	15	in <b>our</b> jargon stands <b>for</b> moves all extremities,
16	that he had a hematoma; and whether or not this resulted in <b>a</b> breakdown of a clot, which is	16	"right knee immobilizer."
‼6 ∷7	that he had a hematoma; and whether or not this resulted in a breakdown of a clot, which is unusual with Heparin because Heparin usually does	1.6 1.7	"right knee immobilizer." I presume that was for the fact that he had
116 117 118	that he had a hematoma; and whether or not this resulted in a breakdown of a clot, which is unusual with Heparin because Heparin usually does not break down a clot or a thrombus, or whether or	1.6 1.7 1.8	"right knee immobilizer." I presume that was for the fact that he had had a catheterization; and then under that, "Skin
26 27 28 29	that he had a hematoma; and whether or not this resulted in a breakdown of a clot, which is unusual with Heparin because Heparin usually does not break down a clot $\alpha$ a thrombus, $\alpha$ whether or not it just prevented the timely repair of an	1.6 1.7 1.8 119	"right knee immobilizer." I presume that was for the fact that he had had a catheterization; and then under that, "Skin Integrity: Right groin site stable. Slight," and
26 27 28 29 20	that he had a hematoma; and whether or not this resulted in a breakdown of a clot, which is unusual with Heparin because Heparin usually does not break down a clot $\alpha$ a thrombus, $\alpha$ whether or not it just prevented the timely repair of an artery or a vein that had been injured by the	1.6 1.7 1.8 1.19 20	"right knee immobilizer." I presume that was for the fact that he had had a catheterization; and then under that, "Skin Integrity: Right groin site stable. Slight," and I can't read what it says after that.
16 17 18 19 20 21	that he had a hematoma; and whether or not this resulted in a breakdown of a clot, which is unusual with Heparin because Heparin usually does not break down a clot $\alpha$ a thrombus, $\alpha$ whether or not it just prevented the timely repair of an artery or a vein that had been injured by the needle is another possibility, the fact of the	1.6 1.7 1.8 19 20 21	"right knee immobilizer." I presume that was for the fact that he had had a catheterization; and then under that, "Skin Integrity: Right groin site stable. Slight," and I can't read what it says after that. "Sandbag in place." I presume that's a
26 27 18 29 20 21 22	that he had a hematoma; and whether or not this resulted in a breakdown of a clot, which is unusual with Heparin because Heparin usually does not break down a clot $\alpha$ a thrombus, $\alpha$ whether or not it just prevented the timely repair of an artery or a vein that had been injured by the needle is another possibility, the fact of the matter is I don't know and I'm not qualified	1.6 1.7 1.8 19 20 21 22	"right knee immobilizer." I presume that was for the fact that he had had a catheterization; and then under that, "Skin Integrity: Right groin site stable. Slight," and I can't read what it says after that. "Sandbag in place." I presume that's a sandbag on the groin to put some pressure on the
16 17 18 19 20 21 22 23	that he had a hematoma; and whether or not this resulted in a breakdown of a clot, which is unusual with Heparin because Heparin usually does not break down a clot or a thrombus, or whether or not it just prevented the timely repair of an artery or a vein that had been injured by the needle is another possibility, the fact of the matter is I don't know and I'm not qualified really to comment on coagulation cascades and what	1.6 1.7 1.8 19 20 21 22 23	"right knee immobilizer." I presume that was for the fact that he had had a catheterization; and then under that, "Skin Integrity: Right groin site stable. Slight," and I can't read what it says after that. "Sandbag in place." I presume that's a sandbag on the groin to put some pressure on the the site of the catheter.
26 27 18 29 20 21 22	that he had a hematoma; and whether or not this resulted in a breakdown of a clot, which is unusual with Heparin because Heparin usually does not break down a clot $\alpha$ a thrombus, $\alpha$ whether or not it just prevented the timely repair of an artery or a vein that had been injured by the needle is another possibility, the fact of the matter is I don't know and I'm not qualified	1.6 1.7 1.8 19 20 21 22	"right knee immobilizer." I presume that was for the fact that he had had a catheterization; and then under that, "Skin Integrity: Right groin site stable. Slight," and I can't read what it says after that. "Sandbag in place." I presume that's a sandbag on the groin to put some pressure on the

**Page** 66 - Page 69

1	A. Okay.	1	Now, Doctor, the second sentence of the same
2	MR. <b>TREU:</b> You don't have	2	paragraph you say "The next pertinent nurse's note
3	it?	3	occurs at 8:45 p.m. on November loth," and what is
4	MR. CUNNINGHAM: well, <b>I</b> got	4	that, Doctor?
5	the	5	A. "There <b>is</b> a preoperative note that states
6	THE WITNESS: Show you what	5	that Mr. Davis was found flaccid in <b>both lower</b>
7	it looks like.	0 7	extremities at '1530 today,'' and "1530 today" is
8	BY MR. CUNNINGHAM:	8	in quotes.
9	Q. I know what it looks like. I just want to	9	Q. Well, no, but you say the next pertinent
10	mark it so we don't have any <b>question as</b> to what	10	nurse's note occurs at 8:45.
11	you're reading.	11	Oh, I see. 8:45 p.m. on November 10th?
12	A. Okay.	12	A. Right.
13	Q. Maybe <b>you</b> can find it <b>in</b> hcre, Doctor, while	13	Q. And that's what you're reading?
14	I'm	13	A. Right.
15	MR. TREU: 111 do that.	15	Q. Okay.
16	You guys go ahcad.	16	And can you find that for mc?
17	THE WITNESS: Okay.	17	(Thereupon, <b>a</b> discussion
18	MR. CUNNINGHAM: okay. Let me	18	was held off the record.)
19	see if I have another.	19	THE WITNESS: Here it is.
20	THE WITNESS: I was reading	20	Okay, "11/10/91, 2045 <b>Preop</b> • Patient
21	down here.	22	discovered flaceid in lower extremities bilateral
22	MR. CUNNINGHAM: Okay.	2	at '1530 today.' Taken for stat MRI revealing
23	Just a moment. We're going to mark this,	2'3	epidural/thecal," t-h-e-c-a-1, "hematoma causing
24	and this is a Bates stamp 000135, the records I	28	spinal cord compression. No other changes to *
2'5	MR. TREU: Is that on	2	can't read her writing, and I think the person's
	Page 71	1	Page 73
1	ours?	1	name is M-a-y.
2	BY MR. CUNNINGHAM:	2	MR. CUNNINGHAM: Okay.
3	Q. K-a-1	3	(Thereupon, Plaintiff's Exhibit 2
4	A. Pardon?	4	of the Kalfas Deposition
5	MR.TREU: <b>-</b> f-a-s.	5	was marked for purposes of
6	MR. CUNNINGHAM: $-f-a-s$ ,	6	identification.)
7	Kalfas No. 1.	7	BY MR. CUNNINGHAM:
8	(Thcreupon, Plaintiff's Exhibit 1	8	Q. And would you circle I've now marked
9	of the Kalfas Deposition	9	that. It's, by the way, fax – or Bates number
:0	was marked for purposes of	:0	000138 and Plaintiff's Exhibit No. 2 - Kalfas
11	identification.)	1	Exhibit No. 2.
2	BY MR. CUNNINGHAM:	: 2	A. (Indicating.)
:3	Q. Doctor, if you would circle what you had	: 3	Q. Maybe red would be better, Doctor.
14	read which is where you're getting the information	: 4	A. Oh, okay.
:5	to say that on November 10th the nurse's note at	: 5	Q. Yeah. Okay.
:16	8:00 a.m. indicated that Mr. Davis is moving all	16	Doctor, in the page 2, the next third
17	extremities?	37	paragraph from the bottom, the large the long
18	And would you initial that?	18	paragraph where it says "The question is," you
19	A. I did.	19	state in the third – fourth sentence "In my
20	Q. Okay.	20	experience with spinal surgery and procedures to
21	Both okay,	21	decompress the spinal cord in similar settings "
a	A. Up top too	.22	A. Okay.
23	Q. Yeah, uh-huh.	23	Q. * I can state with a reasonable degree of
24	A and down below.	.24	medical probability that earlier identification of
25	Q. Thank you.	25	this problem by a few hours would most likely not

	- <b>0</b> -	1	rage 76
1	change the outcome in this case."	1	hours, 10 hours?
2	When you mention a few hours, what are you	2	A. Either of those. Any of those.
3	talking about, Doctor?	3	Q. 24 hours?
4	A. Oh, I've operated on people five, six hours,	4	A. 24 hours is obviously getting a <b>little</b> bit
5	four hours after the onset of symptoms without	5	further out on the course of several, you know,
6	significant improvement of their complaints, their	6	more days.
7	symptoms.	7	Q. Okay.
8	Q. Well, have you operated on others where	8	So you're really not giving that within a
:9	they it was a different result?	<u>'9</u>	degree of medical probability, are you, Doctor?
10	A. I have opcrated on some people at one, two	10	MR. TREU: No. Wait a
11	days, three days.	11	minute. Let's clarify
12	In fact, I operated yesterday on an	12	THE WITNESS: Yeah.
13	individual who's had weakness for six weeks and	13	MR. TREU: - what you're
14	that <b>person</b> is now improved, so there's it can	14	talking about. I think you guys are talking two
15	go either way.	15	different languages here.
16	<i>Q</i> . Well. here we're not talking about just	16	THE WITNESS: Right.
17	weakness; we're talking about paraplegia	17	What <b>arc</b> you saying <b>I'm</b> not giving with
18	A. Uh-huh.	18	medical probability?
19	Q which is now which is permanent.	19	BY MR. CUNNINGHAM:
20	A. Right.	20	Q. Well, because you make the statement "I can
21	Q. All right.	21	state with a reasonable degree of medical
22	<b>So the as I</b> understand what this hematoma	22	probability that earlier identification of this
23	did was to form a pressure around the cord and Cut	23	problem by a few hours most likely would would
24	off cut off the function of the cord?	24	most likely not change the outcome "
25	A. The circulation	25	A. Correct.
	Page 75		Page 77
1	Q. The circulation?	1	Q. •• of this case" ••
2	-	1	
1 -	$\mathbf{A}_{\bullet} \bullet \mathbf{A}_{\bullet}$ to the cold. Fight.	12	A. And I agree with that based on my experience
3	A. •• to the cord, right. O. Right.	$\begin{vmatrix} 2\\ 3 \end{vmatrix}$	A. And I agree with that based on my experience with a similar setting.
3	Q. Right.	2 3 4	with a similar setting.
4	Q. Right. Now, how can you say that a few hours	3 4	with a similar setting. Q. I thought you just told mc earlier that's
4 5	Q. Right. Now, how can you say that a few hours wouldn't have mattered?	3	with a similar setting. Q. I thought you just told mc earlier that's pure speculation on your part.
4 5 6	<ul> <li>Q. Right.</li> <li>Now, how can you say that a few hours wouldn't have mattered?</li> <li>A. Because I've opcrated through my</li> </ul>	3 4 5	<ul> <li>with a similar setting.</li> <li>Q. I thought you just told mc earlier that's pure speculation on your part.</li> <li>A. Paraplegia</li> </ul>
4 5 6 7	<ul> <li>Q. Right. Now, how can you say that a few hours wouldn't have mattered?</li> <li>A. Because I've operated through my experience I guess is the only thing 1 have to</li> </ul>	3 4 5 6	<ul> <li>with a similar setting.</li> <li>Q. I thought you just told mc earlier that's pure speculation on your part.</li> <li>A. Paraplegia MR. TREU: That's</li> </ul>
4 5 6 7 8	<ul> <li>Q. Right. Now, how can you say that a few hours wouldn't have mattered?</li> <li>A. Because I've opcrated through my experience I guess is the only thing 1 have to refer to, that my experience in particularly in</li> </ul>	3 4 5 6 7 8	<ul> <li>with a similar setting.</li> <li>Q. I thought you just told mc earlier that's pure speculation on your part.</li> <li>A. Paraplegia MR. TREU: That's misleading. Wait.</li> </ul>
4 5 6 7 8 <i>9</i>	<ul> <li>Q. Right. Now, how can you say that a few hours wouldn't have mattered?</li> <li>A. Because I've operated through my experience I guess is the only thing 1 have to refer to, that my experience in particularly in individuals who have complete neurological</li> </ul>	3 4 5 6 7	<ul> <li>with a similar setting.</li> <li>Q. I thought you just told mc earlier that's pure speculation on your part.</li> <li>A. Paraplegia MR. TREU: That's</li> </ul>
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4 5 6 7 8 9 10 11	<ul> <li>Q. Right. Now, how can you say that a few hours wouldn't have mattered?</li> <li>A. Because I've opcrated through my experience I guess is the only thing 1 have to refer to, that my experience in particularly in individuals who have complete neurological dysfunction, paraplegia or quadriplegia, what I will tell my patients is that the chance for</li> </ul>	3 4 5 6 7 8 9 10 11	<ul> <li>with a similar setting.</li> <li>Q. I thought you just told mc earlier that's pure speculation on your part.</li> <li>A. Paraplegia <ul> <li>MR. TREU:</li> <li>That's</li> </ul> </li> <li>misleading. Wait. <ul> <li>THE WITNESS:</li> <li>No, that's not</li> </ul> </li> <li>what I said. <ul> <li>Paraplegia. my statements that I give to</li> </ul> </li> </ul>
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4 5 6 7 8 9 10 11 12 13	<ul> <li>Q. Right. Now, how can you say that a few hours wouldn't have mattered?</li> <li>A. Because I've opcrated through my experience I guess is the only thing 1 have to refer to, that my experience in particularly in individuals who have complete neurological dysfunction, paraplegia or quadriplegia, what I will tell my patients is that the chance for improvement is very slim no matter bow quickly we get to them.</li> </ul>	3 4 5 6 7 8 9 10 11 12 13	<ul> <li>with a similar setting.</li> <li>Q. I thought you just told mc earlier that's pure speculation on your part.</li> <li>A. Paraplegia <ul> <li>MR. TREU:</li> <li>That's</li> </ul> </li> <li>misleading. Wait. <ul> <li>THE WITNESS:</li> <li>No, that's not</li> </ul> </li> <li>what I said. <ul> <li>Paraplegia. my statements that I give to</li> <li>patients regarding their prognosis, patients who have a paraplegia is that they <i>are</i> very unlikely</li> </ul> </li> </ul>
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	* *D* · ·	ł	Yage 80
. 1	circulation in the spinc.	1	A. Right,
2	Now, that's different at least to getting to	2	Q resulting in a bloody tap and then they
3	the paralysis than someone being in a car accident	3	started infusing him with Heparin.
4	or a diving accident or those types of things,	4	Now, let's assume for this purpose that the
5	isn't it?	5	blood started forming in the pouring into the
6	<b>A.</b> No.	6	area of the trauma and it comes like a spigot and
7	Q. Well, now, I haven't had as much experience,	7	it constantly goes
8	but I've dealt quite a bit with quadriplegics from	8	A. If it comes like a spigot, it's going to
9	a layman's point of view or lawyer point of view.	9	produce symptoms right at the time the Heparin
10		10	Starts.
11	asking the question.	11	Q. A drip, drip, drip, drip then so at some
12	Q. All right.	12	point you build up enough blood that you're going
13	But if you have, for example, a diving case	13	to have pressure there on the cord; and when you
14		14	have enough pressure on the cord you're going to
15	of a pool	15	have paraplegia, aren't you?
16	A. Uh-huh.	16	A. Correct.
17	Q now, in many of those cases that's a	17	Q. Now, if that's a constant – let's assume
18	permanent quadriplegia sudden brought on	18	for a moment that that was constant.
19	suddenly by the time of the impact of the head and		Then it would matter whether it – you
20	spine with the bottom of the pool.	20	discovered it three hours earlier or five hours
21	A. It can be and so can	21	earlier or eight hours earlier, wouldn't it?
22	Q. Right.	22	<b>A.</b> Not necessarily, because paraplegia is going
23	A a homatoma be suddon and acute.	2	to be very rarely corrected by an operation
24	What I'm mercly saying is that the source of	24	<b>performed</b> at three hours, five hours or five
25	the symptoms is related to the same whether or not	25	months.
	Page 79		Page 81
1	it's a diving injury, a hematoma or a tumor.	1	Q. Doctor, <b>if</b> you know the hematoma <b>is</b> down
2	It's occlusion of blood supply to the spinal	2	there before the paraplegia takes effect, can't
3	cord and the nerves with subsequent loss of	3	you <b>do</b> surgery and remove the hematoma?
4	function at that level of the spinal cord or of	4	MR. TREU: How do you know
5	the nerves.	5	that?
5	Q. At some point but the hematorna doesn't	6	THE WITNESS: First of all,
0	form suddenly, does it?	7	you wouldn't know that.
7	•	8	Second of all, you wouldn't do it based
8	A. It certainly can. In fact, trauma, hitting your head on the	9	on we have many patients who have <b>an</b> MRI that
9		110	show a hematoma.
10	bottom of the pool can produce a hematoma that	111	<b>I'm</b> not treating an MRI. I could care less
11	suddenly causes paraplegia or quadriplegia.	1	what the <b>MRI</b> shows.
112	Q. You think the hematoma <b>in</b> this case formed	1 <b>12</b> 1L3	I take the <b>MRI</b> findings <b>in</b> the context of
113	suddenly?		-
114	A. I said before I have no idea whether it	)14 1.5	the symptoms that the patient presents to me. So <b>if I</b> get <b>an</b> MRI <b>cf Joe</b> Davis and it shows
115	<b>formed</b> suddenly or not.	15 16	-
116	I'm simply saying that it can form suddenly	10	<b>a</b> hematoma at that level <b>cf</b> the spinal tap but he's having no neurological dysfunction, I'm not
17	and having no time period to compare this to I		recommending surgery.
18	can't make a decision whether it formed suddenly	.19	<b>Q.</b> What are you going to do?
19	Or not.	:10	A. I'm just going to follow it; and if he
:10	Q. Well, let's take hypothetically for a	:10 :21	should happen to develop symptoms, then I would
<i>;</i> 21	moment, Doctor, this hematoma formed over a		
:22	constant period of hours.	22	readjust my approach, but just because an MRI
23	In other words, the blood vessel was we	23	shows <b>a</b> hematoma docsn't mean I'm going to do
:24	got a bloody tap, there was <b>an</b> inadvertent	:24	surgery.
25	damaging of the blood vessel	25	<i>Q.</i> Okay.

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	Page 82		Page 84
1	A. I'm treating a patient; I'm not treating an	1	was forming that would produce paraplegia, if you
2	MRI.	2	would have learned that early enough, could you
3	Q. All right.	3	have prevented the paraplegia?
4	Lct's say then he starts to develop	4	MR. TREU: Objection to
5	symptoms, Doctor, so that he develops symptoms	5	what is early enough?
6	hcre at 8:00 a.m. in the morning or 7:00 a.m. in	6	MR. CUNNINGHAM: Doesn't matter.
7	the morning instead of wailing 'til 3:00 o'clock	7	Just early enough.
8	in the morning.	8	MR. TREU: It doesn't
9	Arc you saying that there can be no surgical	9	matter?
10	procedure to just a moment. There could be	10	THE <b>WITNESS:</b> well, first of
11	you can object after I'm finished.	11	all, if <b>I'm</b> looking at one point in time, <b>I</b> don't
12	MR. TREU: I will. I'm	12	know if that hematoma is going to be causing
13	waiting.	13	paraplegia.
14	MR. CUNNINGHAM: Okay.	14	I'm making a dccision based on that
15	MR. TREU: I haven't said	15	particular point in time, basically the
16	a word.	16	radiographic studies associated with the clinical
17	BY MR. CUNNINGHAM:	17	deficits and symptoms at that time, and I don't
18	<b>Q.</b> There can be there can be it's	18	know at that time whether or not it's going to go
19	nonverbal communication.	19	on to paraplegia.
20	MR. TREU: I See.	20	There have been a number of times where I do,
21	MR. CUNNINGHAM: All right.	2	have <b>an</b> individual who had, say, some mild
22	BY MR. CUNNINGHAM:	2	neurological deficit, some mild weakness.
23	<b>Q.</b> There can be no surgical procedure to	23	They may not <b>be</b> medically stable enough to
24	prevent the paraplegia from occurring?	24	undergo an emergent surgery at that time. In
25	MR. TREU: Objection to	25	those instances I have elected to follow that
	$\mathbf{D}_{\mathbf{a}} = \mathbf{a} \mathbf{a}$		D 05
	Page 83		Page 85
1	the hypothetical since there's no foundation for	1	patient and not rush right in and remove a tumor
2	the hypothetical since there's no foundation for it since we know that the patient was moving all	2	patient <b>and</b> not rush right in and remove a tumor or a fracture or hematoma that has developed, so
2 3	the hypothetical since there's no foundation for it since we know that the patient <b>was</b> moving all his extremities at 8:00 a.m. and in fact may well	2 3	patient <b>and</b> not rush right in and remove a tumor or a fracture or hematoma that has developed, so it's really <b>a</b> judgment call and I'm not trying to
2 3 4	the hypothetical since there's no foundation for it since we know that the patient <b>was</b> moving all his extremities at 8:00 a.m. and in fact may well have been moving his extremities after that period	2 3 4	patient <b>and</b> not rush right in and remove a tumor or a fracture or hematoma that has developed, so it's really <b>a</b> judgment call and I'm not trying to <b>be</b> difficult; I'm just trying to <b></b> trying to <b></b>
2 3 4 5	the hypothetical since there's no foundation for it since we know that the patient <b>was</b> moving all his extremities at 8:00 a.m. and in fact may well have been moving his extremities after that period of time based on other documentation in the chart.	2 3 4 5	patient <b>and</b> not rush right in and remove a tumor or a fracture or hematoma that has developed, so it's really <b>a</b> judgment call and I'm not trying to <b>be</b> difficult; I'm just trying to trying to MR. CUNNINGHAM: Okay.
2 3 4 5 6	the hypothetical since there's no foundation for it since we know that the patient <b>was</b> moving all his extremities at 8:00 a.m. and in fact may well have been moving his extremities after that period of time based on other documentation in the chart. So based on that I will object to the	2 3 4 5 6	patient <b>and</b> not rush right in and remove a tumor or a fracture or hematoma that has developed, so it's really <b>a</b> judgment call and I'm not trying to <b>be</b> difficult; I'm just trying to trying to MR. CUNNINGHAM: Okay. <b>THE</b> WITNESS: let you know
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2 3 4 5 6 7 8	the hypothetical since there's no foundation for it since we know that the patient <b>was</b> moving all his extremities at 8:00 a.m. and in fact may well have been moving his extremities after that period of time based on other documentation in the chart. So based on that I will object to the hypothetical. Go ahead.	2 3 4 5 6 7 8	patient and not rush right in and remove a tumor or a fracture or hematoma that has developed, so it's really a judgment call and I'm not trying to be difficult; I'm just trying to trying to MR. CUNNINGHAM: Okay. THE WITNESS: - let you know that it's an individualized approach that's tailored to a particular patient's problem.
2 3 4 5 6 7 8 9	<ul> <li>the hypothetical since there's no foundation for it since we know that the patient was moving all his extremities at 8:00 a.m. and in fact may well have been moving his extremities after that period of time based on other documentation in the chart. So based on that I will object to the hypothetical. Go ahead.</li> <li>BY MR. CUNNINGHAM:</li> </ul>	2 3 4 5 6 7 8 9	patient and not rush right in and remove a tumor or a fracture or hematoma that has developed, so it's really a judgment call and I'm not trying to be difficult; I'm just trying to trying to MR. CUNNINGHAM: Okay. THE WITNESS: let you know that it's an individualized approach that's tailored to a particular patient's problem. BY MR. CUNNINGHAM:
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2 3 4 5 6 7 8 9 10 111 :12 :13 14	<ul> <li>the hypothetical since there's no foundation for it since we know that the patient was moving all his extremities at 8:00 a.m. and in fact may well have been moving his extremities after that period of time based on other documentation in the chart. So based on that I will object to the hypothetical. Go ahead.</li> <li>BY MR. CUNNINGHAM:</li> <li>Q. Okay. Now you go ahead and answer the question.</li> <li>A. Hypothetically if an individual is presenting with onset of symptoms and <sup></sup> of course I would go ahead and obtain an MRI to find out</li> </ul>	2 3 4 5 6 7 8 9 10 :11 12 :13 14	<ul> <li>patient and not rush right in and remove a tumor or a fracture or hematoma that has developed, so it's really a judgment call and I'm not trying to</li> <li>bc difficult; I'm just trying to trying to MR. CUNNINGHAM: Okay. THE WITNESS: - let you know that it's an individualized approach that's tailored to a particular patient's problem.</li> <li>BY MR. CUNNINGHAM:</li> <li>Q. Let's take Joe Davis right now. Now, you know Joe Davis' condition A. Right.</li> <li>Q from the hospital records. All right. Now, let's assume that you knew early enough</li> </ul>
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1	Q. Go ahead.	6	1 agu 00
1	•	1	if you would have known that paraplegia could have
2	A. As I said earlier, it's difficult – there's	2	happened if the hematoma would have kept forming
3	no way you can predict that a hematoma is going to	3	to the point that it put pressure – so much
4	cause paraplegia so we're really talking	4	pressure <b>on</b> the cord that you would have had
5	retrospectively here.	5	permanent paraplegia like we have here, you're not
6	There's no way that I can predict what a	6	telling mc I don't think that 'Well, we can't do
7	mass lesion is going to do, so just because	7	anything about it and <b>it's</b> just going to happen"
8	someone has a tumor or a fracture fragment or a	8	or – you're not telling me that, are you?
9	hematoma in their spinal canal that may produce	9	A. I'm not telling you that.
10	the deficits, I don't know at that particular	10	Q. All right.
11 12	point in time and I'm going to <b>use</b> my best clinical judgment at that particular point in time	11	A. I'm simply saying
1		12	Q. You're not telling <b>me</b> the Cleveland Clinic,
13	for that particular patient to make a judgment as	13	if I came up here with <b>a</b> hematoma forming
14	to what needs to be done at that time, surgery or	14	A. If you're paraplegic or quadriplegic
15	no surgery if surgery is an option.	15	Q. I'm not paraplegic.
16	Q. Doctor, have you ever had a case yourself in which a person was in a situation like Joe Davis	16	A you're going to get surgery.
17	in which through neurological checks you	17	Q. Okay. No, wait.
18 1 <i>9</i>		18	<b>A.</b> I'm simply <b>going</b> to <b>tell</b> you and your family, though, that you may not <b>see</b> a
<b>2</b> 0	and there's a potential out there for a paralysis	1 <i>9</i> 20	satisfactory improvement of your paraplegia.
	to set in and you're going to operate and you go	20 21	Q. I'm not saying I'm coming up here •• the
21 22	ahcad and opcrate, remove a hematoma and stop him	21	patient's coming up here to you before they're
22	from having paraplegia?	22	paraplcgic. They're coming up with a problem.
23	Have you ever been in a case like that?	23 24	A. Right.
24	A. I can't answer yes or no, because I don't	24	Q. All right?
23	A. Tean t answer yes of no, because I don't Page 87	25	
	know if I would have stopped him from having	1	Page 89 And you do the neurological checks and say
1 2	paraplegia.	1 2	"This fellow has a hematoma forming in his spinal
$\begin{vmatrix} 2\\3 \end{vmatrix}$	As I say, I'm not being difficult. I just	3	area and the neurological checks that we're doing
4	cannot predict what would or would not have	4	is showing that there's <b>– th</b> at the hematorna <b>is</b>
5	happened if I had removed the hematoma.	5	pressing - beginning to press on the cord"
6	I have been in a situation where I have seen	6	A. Uh-huh.
7	a neurological deficit develop, a hematoma form	7	Q. <sup>*</sup> but there's no paraplcgia."
8	following an operation and gone in and removed	8	A. See, you
9	that hematoma and had a reversal of those	9	MR. TREU: wait, wait,
10	deficits, but that patient was not paraplegic and	10	wait, wait.
11	that's the critical difference between that type	11	Objection, because those facts have nothing
12	of setting and the setting that <b>Mr.</b> Davis is in	12	to do with this case since we <b>know</b> that seven and
13	where paraplegia essentially involves a much more	13	a half hours before this <b>man's</b> paraplegia
14	severe injury to the spinal cord.	14	developed, that he was moving all his extremities,
15	Not necessarily irreversible, but certainly	15	so your – your hypothetical makes no sense
16	carrying a lesser prognosis than someone who maybe	16	MR. CUNNINGHAM: Okay.
17	has a mild foot drop or some sensory dysfunction.	1	MR. TREU: - in the
18	Q. Time out. Lct's try it again.	18	context of the facts of this case.
19	We're talking past each other, all right,	19	MR. CUNNINGHAM: Just make your
20	and Ict mc say Ict <b>me</b> make sort of a statement	20	objection. You can make your objection.
21	before so you know where I'm coming from	21	THE WITNESS: I guess the
22	<b>A.</b> Okay.	22	problem I'mhaving with the hypothetical situation
23	<b>Q.</b> and I don't think you're saying to me	23	is you're describing a dynamic process when I
	• • • • • • • • • • • • • • • • • • • •	1	
	that if you know that someone you can that a	24	don't know if we can really do it.
24 25	that if you know that someone you can $\cdot \cdot$ that a situation like J $\infty$ Davis, that if you know that $\cdot \cdot$	24 25	don't know if we can really do it. When I look at an MRI, when you're looking

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1	rage 90		Page 92
ļ 1	at this MRI and describing this hematoma forming,	1	if it did or not.
2	that implies a dynamic process. That's not the	2	The only thing I have to go on is the
3	casc.	3	patient saying "My legs aren't moving."
4	<b>An</b> MRI identifies a specific point in time	4	I know at 8:00 o'clock he's alert and
5	and the way to describe it is there's a hematoma	5	oriented <b>and</b> I've never seen a patient who's alert
6	there.	6	and oriented who's not moving their legs who
7	BY MR. CUNNINGHAM:	7	hasn't told me "Hey, I'm not moving my legs."
8	Q. Okay. Let's stop.	8	<b>So</b> presuming worst-case scenario that at
9	<b>A.</b> It ain't forming, it ain't dissolving; it's	9	8:00 o'clock we have <b>a</b> nurse's note that says he's;
10		10	moving all extremities and then there's no nurse's
11		11	note after that. presuming, giving you the benefit
12		12	$\mathbf{c}$ the doubt, that the paraplegia started at 8:01,
13	· _ ·	13	I find it inconceivable that Mr. Davis being alert
14		14	and oriented as noted in the nurse notes would not
15		15	have mentioned something between 8:01 and 4:00
16		16	o'clock when it was finally mentioned to a nurse.
17		17	BY MR. CUNNINGHAM:
18	• •	18	Q. What neurological <i>checks</i> were donc on Joseph
19		19	Davis during the time period of November 8th, 9th
20	- · ·	20	and loth?
21	•	21	MR. TREU: Do you want him
22	We'll do serial MRIs to quantify the dynamic	2'2	to go through the entire chart <b>and</b> tell you that?
23	process here; but looking at a single point in	23	MR. CUNNINGHAM: He can tell me.
24	time	2'4	That's a simple answer. I think he can tell you
25	Q. Could that	25	that.
}	Page 91		Page 93
1	A you can't say that it's forming.	1	THE WITNESS: It's not a
2	Q. Could that have been donc in this casc?	2	simple answer
3	A. Could that have? Certainly.	3	MR. <b>TREU:</b> No, it's not.
4	Anything could have done in this case.	4	THE WITNESS: - bccause it
5	Q. He could have had serial MRIs	5	involvcs multiple points in time.
6	A. He could have. It wouldn't	6	MR. TREU: It involves all
7	<b>Q</b> after once the Heparin was started on?	7	kinds of places in this chart.
8	A. Sure, hc could have.	8	BY MR. CUNNINGHAM:
9	Q. Ycah.	9	Q. Well, you've read the chart, haven't you?
10	<b>A.</b> Could I have ordered it? No.	10	A. Of course I read the chart, but I haven't
11	I have to have an indication for ordering an	11	memorized the chart.
12	MRI and just a clinical suspicion of a hematoma	12	Q. Okay.
13	forming based on, "Gee, it might form because I	13	Well, let's take five minutes so can you
14	did a bloody tap 13 hours ago and now I'm giving	14	look at it.
15		15	A. Okay.
16	another <b>MRI</b> .	16	Q. I don't <i>think</i> it will take you that long.
1.7	It's simpler and certainly less expensive	17	A. You want all neurological examinations?
18	just to see how the patient's doing.	18	Q. Yeah.
119	Q. Don't you think if neurological checks would	19	Let's begin, if it would make it easier for
220		20	you, Doctor, after the beginning of the Heparin -
21	the hematoma would have been caught earlier than	21	A. Okay.
	-	22	Q so that would be after the angioplasty.
22	3:00 o'clock on 3:00 or 3:30 on the loth?	1	
23	MR. TREU: Objection.	23	If you want to write them down
1		1	
23	MR. TREU: Objection.	23	If you want to write them down

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I	1 agu 74		Page 96
1	A. Okay. I got the 11/9.	1	A. Rght.
2	The Hcparin was begun on 11/9, correct?	2	"Positive anal <b>wink</b> ," meaning he has
3	Q. It was begun on 11/9, 7:00 a.m	3	intact
4	A. Yeah, I'm just looking for	4	Q. Sphincter?
5	Q. – so you can start at 7:00 a.m. I guess.	5	A. •• sphincter, "Positive abdominal reflexes,"
6	A. On the 9th?	6	and that's the end of the neuro exam there.
7	Q. On the 9th.	7	They talk about the
8	A. All right.	8	Q. Well, it appears that that exam was done in
9	The first neuro exam I have listed here is	9	1700 <b>on</b> the loth, Doctor
10	on 11/10/91 at 0750.	10	<b>A.</b> 1700 after the onset of the paraplegia.
11	Q. What <b>is</b> that?	11	Q and
12	A. "Ncuro: Alert; better time orientation,	12	A. I'm sorry.
13	computation better."	13	I simply read through the neuro exams
14	I can't read the writing here. Something	14	Q. Yeah.
15	"better. Motor intact, extraction improved.	15	A. from the <b>time</b> that the Heparin was
16	11/10/91, "Neuro - Slightly improved."	16	Started.
17	Q $11/10$ what time?	17	Q. But at least at that point they were
18	A. It doesn't have a time.	18	doing at that point they were doing some
19	11/10, 4:00 p.m. "Cross-coverage."	19	sensory exams, weren't they?
20	e	20	A. At that point they're primarily documenting
21	then his motor cxam at that time flaccid, "No	21	where he's at, at that particular point.
22	response to Babinski. Reflexes plus 1.	22	Q. Ycah, and doing a sensory exam?
23	"Sensory: Senses hip joint movement	23	A. At that time, ycah,
24	otherwise"	24	Q. And also reflex exams?
25	Q. That was after?	25	A. Right.
	Pagc <b>95</b>		Page 97
1	A. That was after patient said "Cannot move	1	Q. Do you see - I had seen in the hospital,
2	Icgs, '" in quotations.	2	other than doing some push-pulls that <b>E</b> noted, <b>I</b>
3	Sensory level at it says question	3	didn't see any push-pulls or any neurological
4	"sensory level at L1. No scnsation to touch.	4	exams on <b>the</b> on <b>October</b> 10th up until the time
5	Consult neuro."	5	that he stated at 1500 hours that he couldn't move
6	Q. Okay.	6	his legs.
7	A. Then we have neurology on call 11/10, 1700.	7	Did you notice any?
8	"Exam: Alert, oriented alert, speech	8	A. No. The only thing I noticed was a st \$100 a m
9	normal.	9	The only thing I noticed was at 8:00 a.m.
10	"Motor: Zero out of 5 bilateral lower	] O	was when they had "Moves all extremities," and then pothing after that
11	extremities with fasciculations. Left calf	11	then nothing after that.
12	decreased tone, 5 minus out of 5 upper	12 13	Q. Okay. A. As I mentioned in my note here, the only
13	extremities.	. 3 14	other note being at 8:45, <b>the</b> nurse's note saying
14	"Scnsory: Decreased pin prick, joint	14	that $\pm$ 1530 he was found flaccid with $-$ in both
15	position sense, light touch."	: 6	lower extremities.
6	I'm using	. 0 . 7	Q. What was that?
17	<ul><li>Q. When was that donc?</li><li>A. That was at 11/10, 1700.</li></ul>	: 8	A. I was just referring to the neuro exam.
8	A. That was at 11/10, 1700. Those sensory deficits are below L-1 level	: 0 : 9	Q. What was
19 20	bilaterally constant referring to the legs.	::0	A. Well, he did – he was having pulses
20	"Negative cremasteric bilaterally," that's	21	checked, pedal pulses checked, but you were
21	an abnormal reflex in the or that's a reflex	::2	specifically asking me about the neurological
22 23	that should be present in the lower extremities	::3	examination
1	that is not in this case.	24	Q. Yeah.
24	Q. Now, those arc sensory exams?	25	A. — and that generally is not part of the
25	Q. Now, most arc sensory exams?	1	Page 04 - Page 07

Page 94 - Page 97

1	Page 98		Fage 100
1		1	arrhythmia," do you agree with that?
2	He had other portions of the examination	2	A. Yes.
3	Q. Yeah.	3	Q. Okay.
4	A but I only mentioned the neurological	4	The third paragraph, Doctor, "From my review
5	examination.	5	of Mr. Davis' medical records, the following
6	Q. But even if you're paraplegic, you do the	6	important neurological data is as follows: Upon
7	pulses, you'd still have those, wouldn't you?	7	admission on November 6th, 1991, Mr. Davis was
8	A. Oh, sure.	8	lethargic," will you agree with that?
9	6	9	A. I would agree, yeah.
10	<b>A.</b> No, not at all.	10	Q. And "His neurological cognitive function
11	That's why <b>I</b> didn't mention it.	11	progressively worsened," would you agree with
12		12	that?
13		13	A. Yes.
14	1 2	14	<i>Q</i> . And he states on "November 9th. '91 he was
15		115	oriented only to himself and not to time or
16	· ·	16	place."
17	5	117	Would you agree with that?
18		18	A. Yes.
19	1	19	Q. In the next sentence, "Later that day he was
20	1 1	20	agitated," agree?
21		21	A. Okay.
22		22	Yes.
23		23	Q. "Mr. Davis was treated with Valium," would
24		24	you agree with that?
25		25	A. I don't know, but I'll have to take his word
	Page 99 MR. MURPHY: Let me just	1	Page 101 for it.
		2	<b>Q.</b> "On November 8th, '91, he was disoriented to
		3	place and time"?
		4	A. Again I don't know, but I'll take his word
		5	for it.
	5 MR. CUNNINGHAM: Yeah. All	6	Q. "These neurological cognitive assessments
		7	were performed prior to his neurologic assessment
		8	on November 8th, 1991," do you agree?
	9 that.	9	A. Okay. Yes.
10		10	Q. Now $\mathbf{I}$ want to go to the fourth paragraph and
1		111	1'11 read the sentence and with the question do
12		:12	you agree or don't agree.
11:		13	A. Okay.
14		14	Q. "On November 8th, '91, neurological
1!		15	consultation was performed, and a decision was
1		16	made to perform <b>a</b> lumbar puncture and to initiate
17	7 Those are the same records you reviewed of	17	Heparin."
1	8 University Hospital	18	A. Do I agree with that; is that what you're
1	1	19	saying?
2:0	Q. •• of Joe Davis from 11/6/91 to 11/21/91?	.20	Q. Yes.
2	1	21	A. "To initiate Heparin," I think a
22		22	recommendation for Heparin was made, but I don't
2		23	think the neurologist was the one to start the
2		24	Heparin.
10	5 Hospital and came with a diagnosis of cardiac	25	Q. Okay.

	rage 102		Page 104
1	A. The note merely said "May start Heparin."	1	restraints."
2	Q. The next sentence, "That lumbar puncture	2	A. Correct.
3	required three attempts and was described as a	3	Q. "On November 7th, '91, he was struggling
4	traumatic lumbar puncturc."	4	against restraints and appeared confused."
5	A. correct.	5	A. Correct.
6	Q. Mr. Davis was treated with aspirin beginning	6	Q. His agitation on November 7th, 1991 required
7	November 7th, '91 until November 9th, 1991."	7	not only physical restraints but also the use of
8	A. Correct.	8	Valium."
9	<b>Q.</b> "Heparin was instituted on November 9,	9	A. Correct.
10	<b>1</b> 991."	10	Q. "There <b>was</b> no febrile episodes."
11	A. Correct.	11	A. Correct.
12	Q. "On November 9, '91, Mr. Davis underwent an	12	<b>Q.</b> "However, there was clear evidence of anoxic
13	emergency PTCA."	13	episodes suggestive of an anoxic encephalopathy as
14	A. Correct.	14	well <b>as</b> disorientation secondary to his
15	Q. "On November 10, 1991, at approximately 1500	15	hospitalization in the coronary care unit."
16	hours, <b>Mr</b> . Davis complained of inability to move	1	A. I don't <b>know</b> if you can make a clear-cut
17	his lcgs."	17	diagnosis of anoxic encephalopathy.
18	<b>A.</b> Roughly 1500, correct.	18	Certainly that would be included in your
19	Q. <b>"An</b> emergency MRI of the lumbar spine was	19	differential diagnosis, but I wouldn't necessarily
20	performed, and this confirmed a large hematoma at	20	classify it <b>as being</b> able to make the diagnosis on
21	T12-L1 with inter " pronounce that for me.	2	my impression at that time particular time.
22	A. It should be "intrathecal."	22	Q. Though that was
23	Q. Intra, right, "intrathecal component at L3	23	A. That's in the differential certainly.
24	through the sacral levels."	28	Q. <b>But</b> on the discharge summary they did make
25	A. Correct.	2	that diagnosis. didn't they?
	Page 103	+	Page 105
1	Q. <b>"An</b> unsuccessful neurosurgical decompression	1	A. Eventually they did.
1 2	was attempted."	2	Q. Ycah.
$\begin{vmatrix} 2\\ 3 \end{vmatrix}$	A. Well, the decompression was successful, the	3	Is that a reversible or permanent event,
4	results were not, so I guess it's semantics, but	4	anoxic encephalopathy?
5	I'll you know, I'll grant him 1'll grant	5	
6	In - you know, In grant min In grant		• Depends on the degree and the time
10	•		<ul><li>A. Depends on the degree and the time.</li><li>O. What do you thick in this case from the</li></ul>
	I'll agree with that.	6	Q. What do you thick in this case from the
7	I'll agree with that. Q. "Mr. Davis remained paraplegic	6 7	Q. What do you thilk in this case from the hospital records?
7 8	I'll agree with that. Q. "Mr. Davis remained paraplegic postoperatively."	6 7 8	<ul><li>Q. What do you think in this case from the hospital records?</li><li>A. Well, not knowing all the particulars with</li></ul>
7 8 9	I'll agree with that. Q. "Mr. Davis remained paraplegic postoperatively." A. Correct.	6 7 8 9	<ul><li>Q. What do you thilk in this case from the hospital records?</li><li>A. Well, not knowing all the particulars with the testing and not having been there, it's</li></ul>
7 8 9 10	<ul> <li>I'll agree with that.</li> <li>Q. "Mr. Davis remained paraplegic postoperatively."</li> <li>A. Correct.</li> <li>Q. The next paragraph, "The following are my</li> </ul>	6 7 8 9 10	<ul><li>Q. What do you thilk in this case from the hospital records?</li><li>A. Well, not knowing all the particulars with the testing and not having been there, it's difficult to make a determination as to whether or</li></ul>
7 8 9 10 11	<ul> <li>I'll agree with that.</li> <li>Q. "Mr. Davis remained paraplegic postoperatively."</li> <li>A. Correct.</li> <li>Q. The next paragraph, "The following are my medical opinions based on a reasonable degree of</li> </ul>	6 7 8 9 10 11	<ul><li>Q. What do you thilk in this case from the hospital records?</li><li>A. Well, not knowing all the particulars with the testing and not having been there, it's difficult to make a determination as to whether or not something's going to be reversible or</li></ul>
7 8 9 10 11 12	<ul> <li>I'll agree with that.</li> <li>Q. "Mr. Davis remained paraplegic postoperatively."</li> <li>A. Correct.</li> <li>Q. The next paragraph, "The following are my medical opinions based on a reasonable degree of medical certainty: 1. Based on review of Mr.</li> </ul>	6 7 8 9 10 11 12	<ul> <li>Q. What do you thilk in this case from the hospital records?</li> <li>A. Well, not knowing all the particulars with the testing and not having been there, it's difficult to make a determination as to whether or not something's going to be reversible or irreversible.</li> </ul>
7 8 9 10 11 12 13	<ul> <li>I'll agree with that.</li> <li>Q. "Mr. Davis remained paraplegic postoperatively."</li> <li>A. Correct.</li> <li>Q. The next paragraph, "The following are my medical opinions based on a reasonable degree of medical certainty: 1. Based on review of Mr. Davis' medical records, there was no clear</li> </ul>	6 7 8 9 10 11 12 13	<ul> <li>Q. What do you thilk in this case from the hospital records?</li> <li>A. Well, not knowing all the particulars with the testing and not having been there, it's difficult to make a determination as to whether or not something's going to be reversible or irreversible.</li> <li>I haven't seen Mr. Davis so I can't say</li> </ul>
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7 8 9 10 11 12 13 14 115	<ul> <li>I'll agree with that.</li> <li>Q. "Mr. Davis remained paraplegic postoperatively."</li> <li>A. Correct.</li> <li>Q. The next paragraph, "The following are my medical opinions based on a reasonable degree of medical certainty: 1. Based on review of Mr. Davis' medical records, there was no clear indication for a lumber puncture on November 8th, 1993."</li> </ul>	6 7 8 9 10 11 12 13 14 15	<ul> <li>Q. What do you thilk in this case from the hospital records?</li> <li>A. Well, not knowing all the particulars with the testing and not having been there, it's difficult to make a determination as to whether or not something's going to be reversible or irreversible.</li> <li>I haven't seen Mr. Davis so I can't say whether or not he has any permanent deficits related to anoxic encephalopathy.</li> </ul>
7 8 9 10 11 12 13 14 115 116	<ul> <li>I'll agree with that.</li> <li>Q. "Mr. Davis remained paraplegic postoperatively."</li> <li>A. Correct.</li> <li>Q. The next paragraph, "The following are my medical opinions based on a reasonable degree of medical certainty: 1. Based on review of Mr. Davis' medical records, there was no clear indication for a lumber puncture on November 8th, 1993."</li> <li>A. I don't necessarily agree with that.</li> </ul>	6 7 8 9 10 11 12 13 14 15 16	<ul> <li>Q. What do you thilk in this case from the hospital records?</li> <li>A. Well, not knowing all the particulars with the testing and not having been there, it's difficult to make a determination as to whether or not something's going to be reversible or irreversible.</li> <li>I haven't seen Mr. Davis so I can't say whether or not he has any permanent deficits related to anoxic encephalopathy. From what I have read in the records,</li> </ul>
7 8 9 10 11 12 13 14 15 116 17	<ul> <li>I'll agree with that.</li> <li>Q. "Mr. Davis remained paraplegic postoperatively."</li> <li>A. Correct.</li> <li>Q. The next paragraph, "The following are my medical opinions based on a reasonable degree of medical certainty: 1. Based on review of Mr. Davis' medical records, there was no clear indication for a lumber puncture on November 8th, 1993."</li> <li>A. I don't necessarily agree with that.</li> <li>Q. You don't necessarily disagree?</li> </ul>	6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>Q. What do you thilk in this case from the hospital records?</li> <li>A. Well, not knowing all the particulars with the testing and not having been there, it's difficult to make a determination as to whether or not something's going to be reversible or irreversible.</li> <li>I haven't seen Mr. Davis so I can't say whether or not he has any permanent deficits related to anoxic encephalopathy.</li> <li>From what I have read in the records, though, it doesn't it doesn't appear that he</li> </ul>
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7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>I'll agree with that.</li> <li>Q. "Mr. Davis remained paraplegic postoperatively."</li> <li>A. Correct.</li> <li>Q. The next paragraph, "The following are my medical opinions based on a reasonable degree of medical certainty: 1. Based on review of Mr. Davis' medical records, there was no clear indication for a lumber puncture on November 8th, 1993."</li> <li>A. I don't necessarily agree with that.</li> <li>Q. You don't necessarily disagree?</li> <li>A. No, I don't agree I don't agree with this particular statement.</li> </ul>	6 7 8 9 10 11 12 13 14 15 16 17 18 119	<ul> <li>Q. What do you thilk in this case from the hospital records?</li> <li>A. Well, not knowing all the particulars with the testing and not having been there, it's difficult to make a determination as to whether or not something's going to be reversible or irreversible.</li> <li>I haven't seen Mr. Davis so I can't say whether or not he has any permanent deficits related to anoxic encephalopathy.</li> <li>From what I have read in the records, though, it doesn't it doesn't appear that he has had an irreversible damage as a result of any anoxic encephalopathy.</li> </ul>
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7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 <i>t2</i> 23	<ul> <li>I'll agree with that.</li> <li>Q. "Mr. Davis remained paraplegic postoperatively."</li> <li>A. Correct.</li> <li>Q. The next paragraph, "The following are my medical opinions based on a reasonable degree of medical certainty: 1. Based on review of Mr. Davis' medical records, there was no clear indication for a lumber puncture on November 8th, 1993."</li> <li>A. I don't necessarily agree with that.</li> <li>Q. You don't necessarily disagree?</li> <li>A. No, I don't agree I don't agree with this particular statement.</li> <li>Q. Okay.</li> <li>A. I was trying to be polite.</li> <li>Q. Well, don't be polite.</li> <li>A. Okay.</li> </ul>	6 7 8 9 10 11 12 13 14 15 16 17 18 119 20 21 22 22 23	<ul> <li>Q. What do you thilk in this case from the hospital records?</li> <li>A. Well, not knowing all the particulars with the testing and not having been there, it's difficult to make a determination as to whether or not something's going to be reversible or irreversible. <ul> <li>I haven't seen Mr. Davis so I can't say whether or not he has any permanent deficits related to anoxic encephalopathy.</li> <li>From what I have read in the records, though, it doesn't it doesn't appear that he has had an irreversible damage as a result of any anoxic encephalopathy.</li> <li>Q. All right.</li> <li>The next sentence, "There was no clear indication for this patient to be treated with Heparin as recommended by the neurologist after</li> </ul> </li> </ul>
7 8 9 10 11 12 13 14 14 15 16 17 18 19 20 21 21 21	<ul> <li>I'll agree with that.</li> <li>Q. "Mr. Davis remained paraplegic postoperatively."</li> <li>A. Correct.</li> <li>Q. The next paragraph, "The following are my medical opinions based on a reasonable degree of medical certainty: 1. Based on review of Mr. Davis' medical records, there was no clear indication for a lumber puncture on November 8th, 1993."</li> <li>A. I don't necessarily agree with that.</li> <li>Q. You don't necessarily disagree?</li> <li>A. No, I don't agree I don't agree with this particular statement.</li> <li>Q. Okay.</li> <li>A. I was trying to be polite.</li> <li>Q. Well, don't be polite.</li> </ul>	6 7 8 9 10 11 12 13 14 15 16 17 118 119 20 21 22 :23 24	<ul> <li>Q. What do you thilk in this case from the hospital records?</li> <li>A. Well, not knowing all the particulars with the testing and not having been there, it's difficult to make a determination as to whether or not something's going to be reversible or irreversible.</li> <li>I haven't seen Mr. Davis so I can't say whether or not he has any permanent deficits related to anoxic encephalopathy.</li> <li>From what I have read in the records, though, it doesn't it doesn't appear that he has had an irreversible damage as a result of any anoxic encephalopathy.</li> <li>Q. All right.</li> <li>The next sentence, "There was no clear indication for this patient to be treated with</li> </ul>

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1 100	Page 108
3 that time. 1 MR. CUNNE	
2 Q. "Mr. Davis was not in atrial fibrillation, 2 report?	
3 and prior to the introduction of Heparin after the 3 MR. TREU:	Neuro.
4 spinal tap, if there was a concern about 4 MR. CUNNI	
5 embolization, then an emergency echocardiogram 5 report this is	
6 would have been the appropriate course of action." 6 MR. TREU:	In the records.
7 A. Not being a cardiologist, I don't feel 7 You asked him	
8 qualified to comment on that. 8 MR. CUNNE	NGHAM: Oh.
9 <b>Q.</b> Do you <b>know</b> whether <b>an</b> echocardiogram was 9 MR. TREU:	- toidentify
10 done? 10 <b>this</b> earlier and he	
11 A. I don't know. 11 MR. CUNNE	
	ve didn't mark that, did we?
13 cardioechogram was done or not. 13 MR. TREU:	Probably <b>in</b> the
14 Q. The third opinion, "The spinal tap was 14 early <b>part</b> of the cl	
15 difficult to perform and required three attempts." 15 THE WITNE	
16 A. Correct. 16 fairly early.	
17 Q. "4. There was no documented neurologic 17 MR, CUNNI	NGHAM: Let's take a
	d this. Then we can go on.
	n, <b>a</b> recess was taken.)
20 puncture until his complaints of inability to move 20 MR. CUNNI	
21 his legs." 21 No. 4.	
	ou circle what you're talkiig
bccause there is a note at 8:00 o'clock on the day 23 about here?	bu enere what you're tarking
that he developed the paraplegia that demonstrates 24 <b>MR.</b> TREU:	well, he's ••
25   "Moves all extremities."	1
Page 107	
Now whether areat Dr. MaDhancer classifier 1	Page 109
1 Now, whether or not Dr. McPherson classifies 1 MR. TREU:	_
2 that as neurological checks to closely monitor Mr. 2 about it already.	He's testified
2that as neurological checks to closely monitor Mr.2about it already.3Davis' lower motor function or his sensory3MR. CUNNI	He's testified INGHAM: Okay.
<ul> <li>that as neurological checks to closely monitor Mr.</li> <li>Davis' lower motor function or his sensory</li> <li>function I don't know, but it certainly is a means</li> <li>BY MR. CUNNINGE</li> </ul>	He's testified INGHAM: Okay. IAM:
<ul> <li>that as neurological checks to closely monitor Mr.</li> <li>Davis' lower motor function or his sensory</li> <li>function I don't know, but it certainly is a means</li> <li>of monitoring that function.</li> <li>Mathematical dentities</li> <li>Mathema</li></ul>	He's testified INGHAM: Okay. IAM: 1 circle it, Doctor.
<ul> <li>that as neurological checks to closely monitor Mr.</li> <li>Davis' lower motor function or his sensory</li> <li>function I don't know, but it certainly is a means</li> <li>of monitoring that function.</li> <li>Someone says "Moves all extremities," I</li> <li>about it already.</li> <li>mR. CUNNI</li> <li>BY MR. CUNNINGH</li> <li>Q. Why don't you</li> <li>A. I just read the</li> </ul>	He's testified INGHAM: Okay. IAM:
<ul> <li>that as neurological checks to closely monitor Mr.</li> <li>Davis' lower motor function or his sensory</li> <li>function I don't know, but it certainly is a means</li> <li>of monitoring that function.</li> <li>Someone says "Moves all extremities," I</li> <li>presume that his motor function is allowing him to</li> <li>that as neurological checks to closely monitor Mr.</li> <li>about it already.</li> <li>MR. CUNNINGE</li> <li>BY MR. CUNNINGE</li> <li>Q. Why don't you</li> <li>A. I just read the here.</li> </ul>	He's testified INGHAM: Okay. IAM: 1 circle it, Doctor.
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1	1 age 110		Page 112
1	said "Neuro - Slightly improved," for whatcvcr	1	MR. CUNNINGHAM: "R.A.
2	that's worth.	2	Lieberman, "yeah.
3	Q. Well, you think let me look.	3	MR. TREU: Is that his
4	A. It's vague and I wouldn't put much weight on	4	note, Pat
5	it either way.	5	THE WITNESS: Looks like it
6	What's improved I have no idea judging from	6	is.
7	that note.	7	<b>MR.</b> TREU: <b>–</b> on the loth?
8	MR. TREU: Here's your	8	THE WITNESS: Here's "RAL"
9	copy.	9	over here and it looks like the same over here.
10	MR. CUNNINGHAM: Okay. We'll	10	MR. TREU: It looks like
11	make this Bates number 21. It's Kalfas 5.	11	Lieberman.
12	(Thereupon, Plaintiff's Exhibit 5	12	THEWITNESS: Yeah.
13	of the Kalfas Deposition	13	MR. CUNNINGHAM: Okay.
14	was marked for purposes of	14	MR. TREU: Tell me if I'm
15	identification.)	15	wrong, Pat.
16	BY MR. CUNNINGHAM:	16	MR. CUNNINGHAM: Hold on. I
17	Q. Would you circle that again?	17	wanted to okay. We got
18	A. (Indicating.)	18	MR. MURPHY: Trying to
19	Q. Now, you're saying that this has no time on	19	compare it with something else, but I think it
20	it?	20	might be his.
21	A. Correct, but I'm just alluding to the	21	<b>MR.</b> CUNNINGHAM: That's okay.
22	Licbaman note there on 11/10/91. It didn't xcrox	22	Let's go on.
23	well on that particular copy, but on my copy it's	23	I think it's Liebcrman.
24	listed here 11/10/91 and it's obviously somewhere	24	If you dctcrmine it's someone else, would
25	between 7:50 a.m. and 4:00 p.m. on that same day.	25	you let me know?
1	Page 111		Page 113
1	Page 111 O. Where it says "Neuro - Slightly improved"?		Page 113 MR. TREU: Sure.
1 2	Q. Where it says "Neuro - Slightly improved"?	1	MR. TREU: Sure.
2	<ul><li>Q. Where it says "Neuro - Slightly improved"?</li><li>A. Right.</li></ul>	1 2	MR. TREU: Sure. MR. CUNNINGHAM: Put that in the
1	<ul><li>Q. Where it says "Neuro - Slightly improved"?</li><li>A. Right.</li><li>Q. Okay.</li></ul>	1	MR. TREU: Sure. MR. CUNNINGHAM: Put that in the record so we can depose that person before all of
2 3 4	<ul> <li>Q. Where it says "Neuro - Slightly improved"?</li> <li>A. Right.</li> <li>Q. Okay.</li> <li>And you don't know what that means?</li> </ul>	1 2 3	MR. TREU: Sure. MR. CUNNINGHAM: Put that in the
2 3	<ul> <li>Q. Where it says "Neuro - Slightly improved"?</li> <li>A. Right.</li> <li>Q. Okay. And you don't know what that means?</li> <li>A. I have no idea.</li> </ul>	1 2 3 4	MR. TREU: Sure. MR. CUNNINGHAM: Put that in the record so we can depose that person before all of a sudden he shows up in court.
2 3 4 5 6	<ul> <li>Q. Where it says "Neuro - Slightly improved"?</li> <li>A. Right.</li> <li>Q. Okay.</li> <li>And you don't know what that means?</li> <li>A. I have no idea.</li> <li>Q. Okay.</li> </ul>	1 2 3 4 5	MR. TREU: Sure. MR. CUNNINGHAM: Put that in the record so we can depose that person before all of a sudden he shows up in court. MR. TREU: Sure. BY MR. CUNNINGHAM:
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2 3 4 5 6 7 8 9 10 11	<ul> <li>Q. Where it says "Neuro - Slightly improved"?</li> <li>A. Right.</li> <li>Q. Okay.</li> <li>And you don't know what that means?</li> <li>A. I have no idea.</li> <li>Q. Okay.</li> <li>Can you read who that is?</li> <li>Maybe Kris can tell me.</li> <li>MR. TREU: I don't know</li> <li>whose note that is.</li> </ul>	1 2 3 4 5 6 7 8 9 10	MR. TREU: Sure. MR. CUNNINGHAM: Put that in the record so we can depose that person before all of a sudden he shows up in court. MR. TREU: Sure. BY MR. CUNNINGHAM: Q. We're down to, before we were talking, "There are no documented neurological checks to closely monitor Mr. Davis' lower extremity motor or sensory function post lumbar puncture until his
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2 3 4 5 6 7 8 9 10 11 :12	<ul> <li>Q. Where it says "Neuro - Slightly improved"?</li> <li>A. Right.</li> <li>Q. Okay.</li> <li>And you don't know what that means?</li> <li>A. I have no idea.</li> <li>Q. Okay.</li> <li>Can you read who that is?</li> <li>Maybe Kris can tell me.</li> <li>MR. TREU: I don't know</li> <li>whose note that is.</li> <li>THE WITNESS: It's</li> <li>Lieberman's service.</li> <li>I don't know who the resident would be</li> </ul>	1 2 3 4 5 6 7 8 9 10 11 12	MR. TREU: Sure. MR. CUNNINGHAM: Put that in the record so we can depose that person before all of a sudden he shows up in court. MR. TREU: Sure. BY MR. CUNNINGHAM: Q. We're down to, before we were talking, "There are no documented neurological checks to closely monitor Mr. Davis' lower extremity motor or sensory function post lumbar puncture until his complaints of inability to move his legs." A. And that's when I said there were some
2 3 4 5 6 7 8 9 10 11 :12 13 14	<ul> <li>Q. Where it says "Neuro - Slightly improved"?</li> <li>A. Right.</li> <li>Q. Okay.</li> <li>And you don't know what that means?</li> <li>A. I have no idea.</li> <li>Q. Okay.</li> <li>Q. Okay.</li> <li>Can you read who that is?</li> <li>Maybe Kris can tell me.</li> <li>MR. TREU: I don't know</li> <li>whose note that is.</li> <li>THE WITNESS: It's</li> <li>Lieberman's service.</li> </ul>	1 2 3 4 5 6 7 8 9 10 11 12 13	MR. TREU: Sure. MR. CUNNINGHAM: Put that in the record so we can depose that person before all of a sudden he shows up in court. MR. TREU: Sure. BY MR. CUNNINGHAM: Q. We're down to, before we were talking, "There <i>are</i> no documented neurological checks to closely monitor Mr. Davis' lower extremity motor or sensory function post lumbar puncture until his; complaints of inability to move his legs." A. And that's when I said there were some neurological checks there -
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2 3 4 5 6 7 8 9 10 11 :12 13 14 15 :16	<ul> <li>Q. Where it says "Neuro - Slightly improved"?</li> <li>A. Right.</li> <li>Q. Okay.</li> <li>And you don't know what that means?</li> <li>A. I have no idea.</li> <li>Q. Okay.</li> <li>Can you read who that is?</li> <li>Maybe Kris can tell me.</li> <li>MR. TREU: I don't know</li> <li>whose note that is.</li> <li>THE WITNESS: It's</li> <li>Lieberman's service.</li> <li>I don't know who the resident would be there. It doesn't look like Cerino, is the only name that I'm familiar with.</li> <li>MR. TREU: It's not</li> </ul>	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	<ul> <li>MR. TREU: Sure.</li> <li>MR. CUNNINGHAM: Put that in the record so we can depose that person before all of a sudden he shows up in court.</li> <li>MR. TREU: Sure.</li> <li>BY MR. CUNNINGHAM:</li> <li>Q. We're down to, before we were talking,</li> <li>"There are no documented neurological checks to closely monitor Mr. Davis' lower extremity motor or sensory function post lumbar puncture until his complaints of inability to move his legs."</li> <li>A. And that's when I said there were some neurological checks there –</li> <li>Q. All right.</li> <li>A. – 'cause the notations of "Moving all</li> </ul>
2 3 4 5 6 7 8 9 10 11 :12 13 14 15	<ul> <li>Q. Where it says "Neuro - Slightly improved"?</li> <li>A. Right.</li> <li>Q. Okay.</li> <li>And you don't know what that means?</li> <li>A. I have no idea.</li> <li>Q. Okay.</li> <li>Can you read who that is?</li> <li>Maybe Kris can tell me.</li> <li>MR. TREU: I don't know</li> <li>whose note that is.</li> <li>THE WITNESS: It's</li> <li>Lieberman's service.</li> <li>I don't know who the resident would be there. It doesn't look like Cerino, is the only name that I'm familiar with.</li> <li>MR. TREU: It's not</li> <li>Cerino's writing.</li> </ul>	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 :16	<ul> <li>MR. TREU: Sure.</li> <li>MR. CUNNINGHAM: Put that in the</li> <li>record so we can depose that person before all of</li> <li>a sudden he shows up in court.</li> <li>MR. TREU: Sure.</li> <li>BY MR. CUNNINGHAM:</li> <li>Q. We're down to, before we were talking,</li> <li>"There are no documented neurological checks to</li> <li>closely monitor Mr. Davis' lower extremity motor</li> <li>or sensory function post lumbar puncture until his</li> <li>complaints of inability to move his legs."</li> <li>A. And that's when I said there were some</li> <li>neurological checks there –</li> <li>Q. All right.</li> <li>A. – 'cause the notations of "Moving all</li> <li>extremities" implies that there was neurological</li> </ul>
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2 3 4 5 6 7 8 9 10 11 :12 13 14 15 :16 17 :18 :19 20 21	<ul> <li>Q. Where it says "Neuro - Slightly improved"?</li> <li>A. Right.</li> <li>Q. Okay.</li> <li>And you don't know what that means?</li> <li>A. I have no idea.</li> <li>Q. Okay.</li> <li>Can you read who that is?</li> <li>Maybe Kris can tell me.</li> <li>MR. TREU: I don't know</li> <li>whose note that is.</li> <li>THE WITNESS: It's</li> <li>Lieberman's service.</li> <li>I don't know who the resident would be</li> <li>there. It doesn't look like Cerino, is the only name that I'm familiar with.</li> <li>MR. TREU: It's not</li> <li>Cerino's writing.</li> <li>THE WITNESS: Okay. And it's not Kerchynski, because her name is down below: and certainly doesn't look like W∞, so I don't</li> </ul>	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 :16 :17 18 :19 :20	<ul> <li>MR. TREU: Sure.</li> <li>MR. CUNNINGHAM: Put that in the record so we can depose that person before all of a sudden he shows up in court.</li> <li>MR. TREU: Sure.</li> <li>BY MR. CUNNINGHAM:</li> <li>Q. We're down to, before we were talking,</li> <li>"There are no documented neurological checks to closely monitor Mr. Davis' lower extremity motor or sensory function post lumbar puncture until his complaints of inability to move his legs."</li> <li>A. And that's when I said there were some neurological checks there –</li> <li>Q. All right.</li> <li>A. – 'cause the notations of "Moving all extremities" implies that there was neurological checks.</li> <li>Q. Okay. So you're referring to Kalfas Exhibits 1, 2, 4 and 5?</li> </ul>
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2 3 4 5 6 7 8 9 10 11 :12 13 14 15 :16 17 :18 :19 20 21 :22	<ul> <li>Q. Where it says "Neuro - Slightly improved"?</li> <li>A. Right.</li> <li>Q. Okay.</li> <li>And you don't know what that means?</li> <li>A. I have no idea.</li> <li>Q. Okay.</li> <li>Can you read who that is?</li> <li>Maybe Kris can tell me.</li> <li>MR. TREU: I don't know</li> <li>whose note that is.</li> <li>THE WITNESS: It's</li> <li>Lieberman's service.</li> <li>I don't know who the resident would be there. It doesn't look like Cerino, is the only name that I'm familiar with.</li> <li>MR. TREU: It's not</li> <li>Cerino's writing.</li> <li>THE WITNESS: Okay. And it's not Kerchynski, because her name is down below; and certainly doesn't look like W∞, so I don't know.</li> <li>MR. CUNNINGHAM: Would you be</li> </ul>	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 :16 :17 18 :19 :20 21 :22	<ul> <li>MR. TREU: Sure.</li> <li>MR. CUNNINGHAM: Put that in the record so we can depose that person before all of a sudden he shows up in court.</li> <li>MR. TREU: Sure.</li> <li>BY MR. CUNNINGHAM:</li> <li>Q. We're down to, before we were talking,</li> <li>"There are no documented neurological checks to closely monitor Mr. Davis' lower extremity motor or sensory function post lumbar puncture until his complaints of inability to move his legs."</li> <li>A. And that's when I said there were some neurological checks there –</li> <li>Q. All right.</li> <li>A. – 'cause the notations of "Moving all extremities" implies that there was neurological checks.</li> <li>Q. Okay.</li> <li>So you're referring to Kalfas Exhibits 1, 2, 4 and 5?</li> <li>A. Correct.</li> <li>Q. I'll let you look at them before you say</li> </ul>
2 3 4 5 6 7 8 9 10 11 :12 13 14 15 :16 17 :18 :19 20 21 :22 :23	<ul> <li>Q. Where it says "Neuro - Slightly improved"?</li> <li>A. Right.</li> <li>Q. Okay.</li> <li>And you don't know what that means?</li> <li>A. I have no idea.</li> <li>Q. Okay.</li> <li>Can you read who that is?</li> <li>Maybe Kris can tell me.</li> <li>MR. TREU: I don't know</li> <li>whose note that is.</li> <li>THE WITNESS: It's</li> <li>Lieberman's service.</li> <li>I don't know who the resident would be there. It doesn't look like Cerino, is the only name that I'm familiar with.</li> <li>MR. TREU: It's not</li> <li>Cerino's writing.</li> <li>THE WITNESS: Okay. And it's not Kerchynski, because her name is down below; and certainly doesn't look like W∞, so I don't know.</li> <li>MR. CUNNINGHAM: Would you be able to find that out for me, Kris?</li> </ul>	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 :22 :23	<ul> <li>MR. TREU: Sure.</li> <li>MR. CUNNINGHAM: Put that in the record so we can depose that person before all of a sudden he shows up in court.</li> <li>MR. TREU: Sure.</li> <li>BY MR. CUNNINGHAM:</li> <li>Q. We're down to, before we were talking,</li> <li>"There are no documented neurological checks to closely monitor Mr. Davis' lower extremity motor or sensory function post lumbar puncture until his complaints of inability to move his legs."</li> <li>A. And that's when I said there were some neurological checks there –</li> <li>Q. All right.</li> <li>A. – 'cause the notations of "Moving all extremities" implies that there was neurological checks.</li> <li>Q. Okay.</li> <li>So you're referring to Kalfas Exhibits 1, 2, 4 and 5?</li> <li>A. Correct.</li> <li>Q. I'll let you look at them before you say "Correct."</li> </ul>

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	<u>- ممجمع مح</u>		rage 116
1	A. I was just kind of looking to see what 3 is.	1	concomitant use of Heparin was a deviation from
2	What is 3? Arc we missing 3?	2	the accepted standard of neurologic care."
3	Q. 3 is - 3 is Dr. McPherson's report.	3	A. Well, having already said that I probably
4	A. Gotcha. Okay.	4	myself would not have <b>ordered</b> these specific
5	Those all note neurological examinations of	5	neuro-status monitoring tests after this
6	the patient.	6	particular in this particular situation, I'd
7	Q. Okay.	7	have to disagree with it or <b>I'd</b> be saying that <b>I</b>
8	First of all, there's no showing that any of	8	was practicing an unaccepted standard of
9	those neurological examination quote	9	neurological care.
10		10	<i>Q</i> . Well, let's say <b>this</b> happened tomorrow and
11		11	he then makes $-$ and everything else happened,
12		12	Doctor.
13		13	Knowing what you know now about Joseph Davis
14		14	and it happened tomorrow, would you agree that a
15		15	failure then to closely monitor <b>Mr</b> . Davis'
16		16	neurological status in view of a traumatic lumbar
17		17	puncture with concomitant <b>use</b> of Heparin was a
18		18	deviation – been a deviation from the accepted
19	1	19	standard of neurological care?
20	A. No, sensation is not referred to.	2	MR. TREU: Objection.
21		21	MR. MURPHY: Objection.
22	But you take it from those exhibits that	22	MR. CUNNINGHAM: Okay.
23		23	MR. TREU: Don't answer
24		24	that question.
25	-	25	MR. CUNNINGHAM: He can answer
	Page 115		Page 117
1	improved" I have no idea what he's referring to.	1	that.
2	<i>Q</i> . Okay.	2	MR. TREU: No, he can't
3	<b>A.</b> He may be referring to motor function, he	3	answer that question.
4	may be referring to neuro mental status	4	That's totally irrelevant.
5	function.	5	MR. CUNNINGHAM: He can answer
6	Since that's before the onset of paraplegia,	6	that question.
7	I presume it's related to his mental function, the	7	You can object at the time of trial, but he
8	"Neuro improved" notation, because if it was after		can answer that question.
		9	THE WITNESS: Well, as I
9	his paraplegia hc would have noted it there and it's also before the note that first documents the	10	said, it's retrospectively speaking. We can make
10		11	all sorts of claims about what should or should
11	paraplegia.	12	not have <b>been</b> done.
12	Q. Well. you're saying the first knowledge of	13	What <b>I'm</b> primarily focusing on <b>is</b> what <b>I</b>
13	paraplegia <b>being</b> when he says "I can't move my leas"?	14	would have done in <b>a</b> situation.
14	legs"?	15	Given the fact that I've never ordered
15	A. Right, exactly right,	15	monitoring studies/monitoring tests after a lumbar
16	<i>Q</i> . But I think you agree you don't know when	17	puncture, even a <b>bloody</b> tap, and I probably would
17	the paraplegia	1	not have ordered monitoring tests in this
18	A. Exactly.	18	-
19	<i>Q occurred?</i>	19 20	particular situation, knowing what I know now, would I do that in the future?
20	A. Don't know when it started.	20	
21	Q. All right. Just so we can correct the	21	Probably.
.21 22	record on that. All right.	22	Q. All right.
21 22 23	record on that. All right. Now, the next sentence then, "This failure	22 23	Q. All right. The next paragraph, "It is my opinion based
.21 22	record on that. All right.	22 23	Q. All right.

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1	rage 118		Page 120
1	which was formed after a traumatic lumber puncture	1	Let me ask you when you read over the first
2	and the use of Heparin and aspirin."	2	one, two paragraphs finishing up at the top of
3	A. I agree.	3	page 2, is there any corrections that you can see
4	Q. "It is further my mcdical opinion within a	4	there?
5	reasonable degree of medical certainty that a	5	A. Basically he outlines –
6	lumbar puncture was not necessary in this patient	6	Q. Yeah.
7	to assess his mental status."	7	A the course of Mr. Davis' hospital stay
a	A. I don't agree.	8	and I don't note any major deviation
9	Q. "It is further my medical opinion within a	9	Q. All right.
16	reasonable degree of medical certainty that once a	10	A from what's <b>been</b> testified to.
11	traumatic lumbar puncture is performed and once	11	Q. What about the first complete paragraph on
1:2	Heparin is used, it is necessary to closely	12	page 2, Doctor, beginning "At the time of the
13	monitor the patient's neurologic status in	13	patient's admission"?
14	anticipation of the formation of an epidural	14	A. Okay.
1:5	hematoma with concomitant cauda quina syndrome."	15	Give or take a few <b>pints</b> which I can't
16	A. That is, as I said, retrospectively I would	16	remember off the top of my head, it looks fairly
17	agree with that.	17	accurate.
18	Q. All right.	18	Q. All right.
1'9	A. At the time I would have ordered those	19	And then the next paragraph beginning with
20	tests or had that monitoring.	20	"Despite the fact"?
21	Q. Okay, Doctor.	21	A. Okay.
22	Now, let's go now to Exhibit 5 which will	22	I'll take his word for it. As I said, I'm
23	be	23	not a hematologist, <b>so</b> I'm not expert
24	А. б.	24	Q. All right.
25	Q. Do we have a 5?	l25	A. •• enough to make that conclusion.
		1	
	Page 119		Page 121
1	MR. TREU: <b>5</b> is one of	1	Q. Now let's go to the last paragraph and we'll
1 2	MR. TREU: <b>5</b> is one of those pages.	1 2	Q. Now let's go to the last paragraph and we'll do this by scntcncc.
	MR. TREU: <b>5</b> is one of those pages. AIR. CUNNINGHAM: You're right.	1 2 3	<ul><li>Q. Now let's go to the last paragraph and we'll do this by sentence.</li><li>A. Okay.</li></ul>
2	MR. TREU: <b>5</b> is one of those pages. AIR. CUNNINGHAM: You're right. Off the record.	1 2 3 4	<ul> <li>Q. Now let's go to the last paragraph and we'll do this by scntcncc.</li> <li>A. Okay.</li> <li>Q. "It's my belief, within a reasonable degree</li> </ul>
2 3	MR. TREU: <b>5</b> is one of those pages. AIR. CUNNINGHAM: You're right. Off the record. (Thcreupon, a discussion	1 2 3	<ul> <li>Q. Now let's go to the last paragraph and we'll do this by sentence.</li> <li>A. Okay.</li> <li>Q. "It's my belief, within a reasonable degree of medical certainty, that the subdural hemorrhage</li> </ul>
2 3 4	MR. TREU: <b>5</b> is one of those pages. AIR. CUNNINGHAM: You're right. Off the record. (Thcreupon, a discussion was held off the record.)	1 2 3 4 5 6	<ul> <li>Q. Now let's go to the last paragraph and we'll do this by sentence.</li> <li>A. Okay.</li> <li>Q. "It's my belief, within a reasonable degree of medical certainty, that the subdural hemorrhage within the lower spinal canal was due to the</li> </ul>
2 3 4 5	MR. TREU: <b>5</b> is one of those pages. AIR. CUNNINGHAM: You're right. Off the record. (Thcreupon, a discussion was held off the record.) (Thereupon, Plaintiff's Exhibit 6	1 2 3 4 5 6 7	<ul> <li>Q. Now let's go to the last paragraph and we'll do this by sentence.</li> <li>A. Okay.</li> <li>Q. "It's my belief, within a reasonable degree of medical certainty, that the subdural hemorrhage within the lower spinal canal was due to the concomitant administration of aspirin and</li> </ul>
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1	spinal cord would have been ascertained before he	1	Q. Would you agree with that?
2	irrevocable damage was accomplished by compression	2	A. That's an assumption.
3	due to the subdural hematoma."	3	It's certainly <b>a</b> possibility that it was <b>a</b>
4	A. I can't agree with that simply because of	4	leakage,
5	the way I explained it earlier that we never	5	Q. What else would it have been?
6	rcally know at one particular point in time where	6	A. It could be an abrupt rupture too •••
7	irrevocable damage occurs, so you really can't	7	Q. Rupture?
-8	draw that conclusion.	8	A. •• that can result – an acute rupture that
9	Q. "In addition, appropriate lab studies should	9	may result in acute formation of a hematoma.
10	have been accomplished, most especially in light	10	Q. That would <b>be in an</b> inadvertent puncturing?
11	of the above hemothcrapy occurring in concert with	11	A. Either that or <b>frcm - you</b> can have a
12	the traumatic lumbar puncture."	12	situation where the - you have a weakened blood
13	A. I don't feel qualified to comment on that.	13	vessel that will essentially open up as a result
14	Q. "These laboratory studies may well have	14	of a spiking in blood pressure.
15	given the clinicians a more precise picture of his	15	<b>So</b> if you have <b>an</b> episode of hypertension,
16	coagulation state."	16	then that can result in bleeding, and we know that
17	A. I'll have to take his word on that.	17	from our experiences with this problem in the
18	Q. Okay.	18	brain.
19	Now we'll go to Dr. Saltis, which will be	19	Q. All right.
20	Exhibit 7.	<b>2</b> 0	Then this situation is a known complication
21	(Thereupon, Plaintiff's Exhibit 7	21	of the anticoagulating a patient who has suffered
22	of the Kalfas Deposition	22	a bloody tap from an LP?
23	was marked for purposes of	23	A. It's certainly <b>a</b> known complication that it
2a	identification.)	2a	can occur after a bloody tap, or with an
25	BY MR. CUNNINGHAM:	25	anticoagulation in the absence of $\mathbf{a}$ bloody tap it
	Page 123		Page 125
1	Q. If you could read the first page and tell me	1	can occur too.
2	if there's any corrections that you see, otherwise	2	Q. All right.
3	that you would agree with it?	3	Now, I won't quote the next sentence 'cause
4	A. He mentions removal of a subarachnoid	4	you we've already gone through this on the
5	hematoma.	5	laminectomy checks.
6	It's difficult to really remove a	6	A. Right.
7	subarachnoid hematoma, but other than that I	7	Q. Have we not?
8	didn't see any other corrections needed.	8	A. Correct.
9	Q. Okay.	9	Q. Then Dr. Saltis says "It's a reasonable
10	Now I want to go down to his comment where	1	medical certainty that, had these laminectomy
11	you start with "When the patient was	11	checks been done, the evolving spinal cord
12	anticoagulated."	12	compression in the area of the hematoma would have
12	Do you see that fourth line down?	13	been identified and more expeditiously treated."
13	MR. MURPHY: Oh, on page $2$	14	<b>A.</b> I can't agree with that because I don't know
15	of his report?	15	when the hematoma began; and if I have a notation
16	THEWITNESS: Fourth line	16	in the chart that mentions their first notation of
17	down?	17	the hematoma at 4:00 o'clock, I have no way of
118	MR. CUNNINGHAM: Yeah.	18	knowing when that hematoma actually began.
110 119	BY MR. CUNNINGHAM:	19	If someone tells me we have an MRI that
20	Q. "When the patient was anticoagulated some 12		shows this hematoma at 12:00 o'clock and they're
20	hours later, a hematoma evolved because of leakage	21	first noting it at 4:00 o'clock, then I would
i i	AVALUMENT A HEIMAUTHA OT VIT VA NOUMBE UT ICANAL	1	
		122	agree with Dr. Saltis.
22	of blood from the previously tom subdural and	22 23	agree with Dr. Saltis. But again not trying to difficult. I just
22 23	of blood from the previously tom subdural and arachnoid veins surrounding the spinal cord and	23	But again not trying to difficult, I just
22	of blood from the previously tom subdural and	1	-

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	1450 14U	1	Page 128
1	with the statement here.	1	A. Not offihe top of my head, no.
2	Q. And the last scntcnce, "It is my medical	2	Q. All right.
3	opinion that standard care dictates that	3	Let's <b>pass</b> by <b>it</b> .
4	laminectomy checks <b>be</b> done during the time of	4	A. I mean, I'll take her word for it but –
5	anticoagulation after an LP has been done whether	5	Q. No, no.
6	an LP is bloody or not bloody."	6	That's okay. I don't want you to -
7	A. I would say retrospectively I would agree	7	A. Okay.
8	with that now.	8	Q. The <b>- so</b> we'll skip the standard of nursing
9	Q. Okay.	9	care paragraph, and then following are the summary
10	Now, let's go to ••	10	of neuro assessments performed on Mr. Davis after
11	MR. TREU: Object and move	11	the lumbar puncture.
12	to strike any references to retrospective opinions	12	You have read this <b>report</b> before, have you
13	just <b>so</b> that's clear on the record.	13	not?
14	MR. MURPHY: Join in that.	14	A. Yes, I have.
15	MR, CUNNINGHAM: <b>-Kalfas</b> NO. 8	15	Q. Did you have a chance then to go through to
16	is Wanda Bums.	16	check -
17	(Thereupon, Plaintiff's Exhibit 8	17	A. Correlate?
18	of the Kalfas Deposition	18	Q. <b>correlate</b> with the hospital records?
19	was marked for purposes of	19	A. Yeah, I essentially outlined that on my notc
20	identification.)	2	and just <b>as</b> far <b>as</b> correlated it with this and all
21	BY MR. CUNNINGHAM:	21	the other records that I had here; and what she
22	Q. She's a registered nurse.	22	has here I'm having difficulty with as far as
23	Is there anything in the first page?	23	11/9/91, 3:00 to 11:00 shift "No documentation
24	A. The looks fairly straightforward.	24	regarding neuros" and there's that - I think that
25	<b>Q.</b> Okay.	25	one exhibit that mentions "Moves all extremities."
<b>†</b>	Page 127	1	Page 12 <b>9</b>
1	You would agree with that?	1	Q. That's the one
2	A. More or less, yes.	2	MR, TREU: That was on the
3	Q. What's more or less mean?	3	10th.
4	A. More or less essentially I can look up on	4	THE WITNESS: <b>On</b> the <b>10th.</b>
5	the 3:00 to 11:00 shift or I can look up at 11:20	5	I'm s <i>orry,</i> I'm <b>sorry.</b>
6	a.m. percutaenous angioplasty; but essentially	6	MR, CUNNINGHAM: Yeah.
7	having perused it previously, I agree with	7	<b>THE</b> WITNESS: <b>7:00</b> to <b>3:00</b> ,
8	everything that's there.	8	7:00 to 3:00 shift then is the one I have problems
9	Q. Okay.	9	with; 11/10, 7:00
10	Page 2, the first paragraph?	110	BY MR. CUNNINGHAM:
11	A. "Can't move legs."	111	Q. Which one?
12	Q. And I understand you would not know whether	:12	A. 11/10/91, 7:00 to 3:00 shift, second from
113	Mr. Davis is now a paraplegic except I told you	:13	the bottom.
14	that.	:14	Q. Okay.
15	A. Correct.	:15	A. "No documentation regarding neuros," and the
16	Q. Okay.	16	nurse's note there mentions "Movies all
117	So I don't want you to	:17	extremities."
18	A, Okay.	:18	I think it was No. 1, "Moves all
:19	I agree	:19	extremities."
20	Q. Okay.	:20	Q. Exhibit 1
:21	A with that first paragraph.	:21	A. Correct.
:22	Q. All right.	22	Q. •• what you're referring to? All right.
:23	Now, the standard nursing care for a	:23	A. That was the only problem I had with that
44			
:24	-	:24	scenario she outlined.
	patient, would you know that, Doctor? Is that beyond your	:24 :25	scenario she outlined. Q. And Doctor, would you know at the end where

Page 126 - Page 129

	rage 132
1 she has - the last paragraph, would you be 1 Q. All right.	Ŭ
2 qualified to either agree or disagree with the 2 You haven't been asked to	o do anything else?
3 opinion as far as nurses 3 A. I don't understand the que	estion.
4 A. Not from a nursing standpoint, no. 4 Q. You haven't been asked to	o do anything else
5 Q. All right, okay. 5 than what was in your report	
6 How long did you review these records? Did 6 about here today?	
7 you have a time? 7 A. Correct, exactly.	
8 A. Oh, gee, I probably spent this particular 8 Q. Okay.	
9 thing and these 9 I asked that so that there's	no surprises
10 Q. Yeah. 10 from my end	no surprises
11 A. – probably about three hours, two and a 11 A. I gotcha.	
12 half to three hours. 12 Q. when you come to the s	stand and
13 Q. Okay. 13 A. No, no, no.	
14 Did you take handwritten notes? 14 Q. — and you have <b>a</b> differen	nt charge
15 A. I probably did back in March, but I 15 A. I won't blindside you.	it entaige.
16 certainly don't have those right now. 16 Q. Okay. <b>Good.</b> Thankyou	ivervmuch
17Q. Do you have them somewhere?17A. Okay.	, er y maem.
17Q. Do you have mem somewhere?17A. Okay.18A. No.18Q. You have a right to read	the •• or waive it
10A. No.10Q. Tou have a right to read19Q. They're destroyed?19A. Yeah, let me	
	<b>lick, I</b> got a
20A. I probably linew defination21Q. Okay.21couple questions for clarification	, .
21Q. Okay.22Couple quotions for channel22A. Just jotting things down so that I can22MR. CUNNINGHAM:	Oh, okay.
	may have
24Q. Okay.24some questions.25A. I doubt that I would have filed something25MR. CUNNINGHAM:	I'm <b>Sorry.</b> Pat.
Page 131 1 like that. 1 MR. TREU: He	Page 13 <b>3</b> represents
	represents
= Q. Fina die report dat fou Brit nation	otcha.
	JIN
	brough the month
	out a couple things
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
	Which?
2 Q. Okay.	wither:
Have you you intend to testify at this BY MR. MURPHY:	out it would be seen
trial? Q. Looking at Dr. Cox' rep.	
A. If asked to, yeah.	is a preface to my
6 Q. Is there anything in your testimony that you 16 question, Dr. Kalfas.	ly "Do you acrea
17 anticipate, if <b>you</b> give it, that will be different <b>17</b> The question was basical with the abranelogy of even	
<b>18</b> than what's in your medical report or what has 18 with the chronology of even and you said "Provide ly T do	
19 bccn given here 19 and you said "Basically I do 19 Leon a sentence Dr. Cox	
A. No, I'll be as consistent 20 I see a sentence Dr. Cox	
21 Q. Hold on.	rs "the patient
21Q. Hold on.21time," referring to 1600 hou22A. sure.22indicated that he had been un	rs "the patient
21Q. Hold on.21time," referring to 1600 hou22A. sure.22indicated that he had been un23Q or what's bccn given here in this23this a.m."	rs "the patient
21Q. Hold on.21time," referring to 1600 hou22A. sure.22indicated that he had been un	rs "the patient hable to move his <b>leg</b> s

.

Page 130 - Page 133

1.	= ====================================	1		Page 136
1	record whatsocvcr, that the patient said he	1	THE WITNESS: I will not	
2	couldn't move his legs in the morning.	2	waive signature.	
3	In fact, that note says that he could move	3	(Thereupon, the deposition was	
4	them in the morning.	4	concluded at 7:36 o'clock p.m.)	
5	A. I don't find that in the record either.	5	• • •	
6	Q. Okay.	6		
7	Let me justI'm referring to the 11/10	7		
8	4:00 p.m. note.	8		
9	A. Uh-huh.	9		
10	MR. CUNNINGHAM; Which one is	10		
11	that? Is that an exhibit?	11		
12	THE WITNESS: It's on Exhibit			
1	may be 5.	12		
13	•	13		
14	MR. TREU: 5 or 6.	14		
:15	THE WITNESS: 5 where we	15		
.16	circle "Neuro - Slightly improved," but below that	16		
:17	we did not circle the note that first documents	17		
.18	his "Cannot move Icgs."	18		
:19	MR. MURPHY: Okay.	19		
20	BY MR. MURPHY:	20		
21	Q. We'll <b>use</b> the exhibit since it's already	21		
22	marked.	22		
23	On Exhibit 5, which was a 4:00 p.m. note,	23		
24	docs that indicate that the patient was able to	24		
25	movc his legs this a.m. at shift change?	25		
	Page 135			
				Page 1.3/
1		1	I, IAIN H.KALFAS, M.D., F.A.C.S., do	Page 137
1	A. Yes.	1 2	I, IAIN H.KALFAS, M.D., F.A.C.S., do verify that I hive read this transcript consisting	Page 18/
2	A. Yes. Q. Okay.			Fage 18
2 3	<ul> <li>A. Yes.</li> <li>Q. Okay.</li> <li>Another question with respect to Dr. Cox'</li> </ul>	2	verify that I hive read this transcript consisting.	Fage 18
2 3 4	<ul> <li>A. Yes.</li> <li>Q. Okay. Another question with respect to Dr. Cox' report, generally he makes reference in there as</li> </ul>	2 3	verify that I hive read this transcript consisting of 138 pages <i>md</i> that the questions and answerg are correct.	Fage 18
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2 3 4 5 6	<ul> <li>A. Yes.</li> <li>Q. Okay. Another question with respect to Dr. Cox' report, generally he makes reference in there as to some perhaps hematologic opinions with respect to the relationship between Heparin and aspirin</li> </ul>	2 3 4 5	verify that I hive read this transcript consisting of 138 pages <i>md</i> that the questions and answerg are correct.	Fage 18
2 3 4 5 6 7	<ul> <li>A. Yes.</li> <li>Q. Okay. Another question with respect to Dr. Cox' report, generally he makes reference in there as to some perhaps hematologic opinions with respect to the relationship between Heparin and aspirin and you commented you take him at his word and</li> </ul>	2 3 4 5 6	verify that I hive read this transcript consisting of 138 pages md that the questions and answers are correct. IAIN H. KALFAS, M.D., F.A.C.S.	Fage 18
2 3 4 5 6 7 8	<ul> <li>A. Yes.</li> <li>Q. Okay.</li> <li>Another question with respect to Dr. Cox' report, generally he makes reference in there as to some perhaps hematologic opinions with respect to the relationship between Heparin and aspirin and you commented you take him at his word and that that's not your area?</li> </ul>	2 3 4 5 6 7	verify that I hive read this transcript consisting of 138 pages <i>md</i> that the questions and answerg are correct.	Fage 18
2 3 4 5 6 7 8 <i>9</i>	<ul> <li>A. Yes.</li> <li>Q. Okay. Another question with respect to Dr. Cox' report, generally he makes reference in there as to some perhaps hematologic opinions with respect to the relationship between Heparin and aspirin and you commented you take him at his word and that that's not your area?</li> <li>A. Yeah, I do not have expertise to comment on</li> </ul>	2 3 4 5 6 7 8	verify that I hive read this transcript consisting of 138 pages md that the questions and answers are correct. IAIN H. KALFAS, M.D., FA.C.S.	Fage 18
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Page 138 1 CERTIFICATE 2 STATE OF OHIO. ) SS: 3 4 I, Michael Christy, a Stenographic Reporter and Notary Public within and for the State of Ohio, duly commissioned md qualified, do hereby certify that the within named witness, JAINH. KALFAS, M.D., FA.C.S., was by me first duty sworn to testify the truth. the whole truth md nothing but the truth in the cause aforesaid; that the testimony then given by him was by me reduced to Stenotypy in the presence of said witness. afterwards prepared and produced by means of Computer-Aided Transcription a d that the foregoing is J true and correct transcription of the testimony so given by him as aforesaid. 5 6 7 а 9 10 11 12 I do further certify that this deposition was taken at the time a d place in the foregoing caption specified and was completed without adjournment. 13 14 115 I do further certify thrt I am not a relative, counsel or attorney of either party, or otherwise interested in the event of this action. 116 17 18 IN WITNESS WHEREOF, I have hereunto set my hand and affixed my scal of office at Akron, Ohio on this 7th day of August. 1995. :19 20 :21 :22 Mic acl Christy, Stenographic rter and Notary Public in Ret 23 and for the State of Ohio. 24 My commission expires February 12.1997. 25 Page 138 - Page 138 Associated Court Reporting, Inc. (216) 434-8800
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June 2, 1995

Richard T. Cunningham Amer Cunningham Brennan Co. Attorneys and Counselors at Law Society Building, Sixth Floor 159 South Main Street Akron, OH 44308–1322

RE: JOSEPH E. DAVIS, et al. VS. UNIVERSITY HOSPITAL OF CLEVELAND at s1

Dear Mr. Cunningham:

reviewed the medical records pertaining to the hospitalization at University Hospital of Joseph E. Davis from 11/6/91 to 11/21/91.

Mr. Davis was transferred to University Hospital in Cleveland on 11/6/91 sometime in the early evening from Aultman Hospital in Canton with a diagnosis of cardiac arrhythmia.

From my review of Mr. Davis' medical records, the following important neurological data is as follows: Upon admission on 11/6/91, Mr. Davis was lethargic. His neurologic cognitive function progressively worsened. On 11/7/91, he was oriented only to himsel and not to time or place. Later that day, he was agitated. Mr. Davis was treated with Valium. On 11/8/91, he was disoriented to place and time. These neurologic cognitive assessments were performed prior to his neurologic assessment on 11/8/91.

On 11/8/91, neurologic consultation was performed, and the decision was made to perform a lumbar puncture and to initiate Heparin. That lumbar puncture required three attempts and was described as a traumatic lumbar puncture. Mr. Davis was treated with Aspirin beginning 11/7/91 until 11/9/91. Heparin was instituted on 11/9/91. On 11/9/91, Mr. Davis underwent an emergency percutaneous transluminal coronary angioplasty. On 11/10/91, at approximately 1500 hours, Mr. Davis complained of inability to move his legs. An emergency MRI of the lumbar spine was performed, and this confirmed a large hematoma at T12–L1 with interthecal component at L3 through the sacral levels. An unsuccessful neurosurgical decompression was attempted. Mr. Davis remained paraplegic postoperativley.

The following are my medical opinions based on a reasonable degree of medical certainty: 1) Based on review of Mr. Davis' medical records, there was no clear indication for a lumbar puncture on 11/8/91. Mr. Davis was admitted to University Hospital on 11/6/91 confused requiring restraints. On 11/7/91, he was struggling against restraints and appeared confused. His agitation on 11/7/91 required not only physical

Selson Clinics I: Kent Medical Arts Building, Suite 245, 401 Devon Place, Kent, Ohio 44240 (216) 673-9641 • Pax (216) 673-9335

Selson Clinics 11: Suite 200, 2725 Abington Court, Akron, Ohio 44393 (216) 836-5333 • Pax (216) 836-1775



restraints but also the use of Valium. There were no febrile episodes. However, there was clear evidence of anoxic episodes suggestive of an anoxic encephalopathy as well as disorientation secondary to his hospitalization in the coronary care unit. 2) There was no dear indication for this patient to be treated with Heparin as recommended by the neurologist after the spinal tap. Mr. Davis was not in atrial fibrillation, and prior to the introduction of Heparin after the spinal tap, if there was a concern about embolization, then an emergency echocardiogram would have been the appropriate course of action. 3) The spinal tap was difficult to perform and required three attempts. 4) There were no documented neurologic checks to closely monitor Mr. Davis' lower extremity motor or sensory function post lumbar puncture until his complaints of inability to move his legs. This failure to closely monitor Mr. Davis' neurologic status in view of a traumatic lumbar puncture with concomitant use of Heparin was a deviation from the accepted standard of neurologic care.

It is my opinion based on a reasonable **degree** of medical certainty that Mr. Davis' paraplegia is secondary to the hematoma which was formed after a traumatic lumbar puncture and the use of Heparin and Aspirin. It is further my medical opinion within a reasonable degree of medical certainty that a lumbar puncture was not necessary in this patient to assess his mental status. It is further my medical opinion within a reasonable degree of medical certainty that once a traumatic lumbar puncture is performed and once Heparin is used, it is necessary to dosely monitor the patient's neurologic status in anticipation of the formation of an epidural hematoma with concomitant cauda equina syndrome.

Sincerely,

Selwyn-Lloyd McPherson, M.D. Neurologist/Epileptologist

SLM/jma faxed

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#### FORENSIC/NEUROPATHOLOGIST

7384 McSHU LANE HUDSON, OHIO 44236-1848

Coroner, County of Summit Telephone: (216) 643-2102

August 24, 1993

Jack C. Weisensell, Esquire Amer Cunninghan Brennan Co.. L.P.A. Attorneys and Counsellors at Law Sixth Floor Society Building 159 South Main Street Akron. Ohio 44308-1322

Re: Joseph E. Davis No. 1583-659

Dear Mr. Weisensell:

As you have requested, I have reviewed the medical records of the above referenced-to patient concerning his admission to University Hospitals of Cleveland on November 6, 1991, with his subsequent discharge on November 21, 1991. If I may, I would like to review only the essential issues which I believe played a role in the development of this patient's decrease in strength and motion in his lower extremities.

On November 8, 1991, at 1730 hours, the patient had a lumbar puncture performed. in order to assess the patient's altered mental status. This attempt was unsuccessful. and another attempt at a lumbar puncture was accomplished at 1815 hours. which was also unsuccessful. A third attempt was accomplished at 1845 hours, which did appear to be successful. The patient was to undergo a Percutaneous transluminal coronary angioplasty, which was accomplished on November 9, 1991. In preparation for this procedure. the patient was placed on Heparin, which was initially begun at 1.200 units per hour, commencing somewhere between 0600 hours and 0700 hours on November 9, 1991. At 1145 hours, on November 9. 1991, the patient received 10,000 units of Heparin I.V.. At 1205 hours, on November 9. 1991, the patient was to receive Heparin at the rate of 1.200 units per hour. At 1235 hours, on November 9, 1991, the patient received 3,000 units of Heparin IVP. At 1245 hours, on November 9, 1991, the patient underwent the percutaneous transluminal coronary angiographic procedure. The patient received a bolus of Heparin, amounting to 3.000 units, subsequent to which the patient received I.V. Heparin 25,000 units in 250 cc. of D5W-NS at the rate of 12 cc.



Jack C. Weisensell, Esquire Amer Cunninghan Brennan Co., L.P.A. August 24, 1993 Page Two

per hour, (1,200 units per hour). On November 9, 1991, at 1455 hours, an order was written that I.V. Heparin was to be discontinued at 0600 hours on November 11th, pending sheath removal. At 2110 hours, on November 9th, the patient received 1,000 units of Heparin I.V., followed by I.V. Heparin at the rate of 1,300 units per hour. On November 10, 1991, at 1600 hours, the patient indicated, "cannot move legs". At this time, the patient indicated that he had been unable to move his legs this a.m.. At shift change, the patient states he is unable to move legs and can't feel people touching. A neurologic exam was commenced, and it confirmed compression of the lower spinal cord.

At the time of the patient's admission to University Hospitals of Cleveland, it was noted that one of the medications the patient was presently receiving was aspirin, along with Pronestyl. Lidocaine, and Nitroglycerin. This is noted in the chart on November 7, 1991, Page 9. On November 7, 1991, it is noted, at the bottom of Page 10, that Lidocaine and Pronestyl are discontinued. However. at 1000 hours on November 7, 1991, on Page 11 under Addendum. it is noted that the patient is still on Nitroglycerin, as well as aspirin. On Page 13, a note is written by the PTCA fellow, in which he notes that the patient is presently on Nitroglycerin and aspirin. On November 8, 1991, a note is written on Page 15, in which again it is noted that the patient is on Nitroglycerin and enteric-coated aspirin. On November 8, 1991, the lumbar puncture was performed as described On November 9. 1991, in the early morning hours, Heparin above. therapy is commenced. Heparin therapy is continued through November 10, 1991. At 1600 hours, on November 10, 1991, the patient reports he cannot move his legs.

Despite ths fast it is noted in multiple places in the chart, there is no indication that the treating physicians were cognizant of the fact of the pharmacological inter-reaction between Heparin and salicylates. Heparin has been shown to cause a relative prohemorrhagic tendency when co-administered with salicylates. The mechanism of this action is thought to be the concomitant platelet inhibition accompanied by clotting factor inhibition.

It is my belief, within a reasonable degree of medical certainty, that the subdural hemorrhage within the lower spinal canal was due to the concomitant administration of aspirin and Heparin. It does appear, from a review of the chart, that the patient was cognizant of a lack of feelings in his lower extremities since the morning of November 11, 1991. Clearly, had the patient received periodic neurological examinations following his traumatic lumbar functure, most especially in light of the fact that it is well documented in the chart that the patient was Jack C. Weisensell, Esquire Amer Cunninghan Brennan Co., L.P.A. August 24, 1993 Page Three

receiving aspirin and immediately following nis lumbar puncture was placed on Heparin therapy for his subsequent percutaneous transluminal coronary angioplasty, that neurologic signs of early compression of his spinal cord would have been ascertained before irrevocable damage was accomplished by compression due to the subdural hematoma. In addition, appropriate laboratory studies should have been accomplished, most especially in light of the above hemotherapy occurring in concert with traumatic lumbar puncture. These laboratory studies may very well have given the clinicians a more precise picture of his coagulation state.

I would like to thank you for having asked me to review this most interesting case. If there is any other way I can be help, please do not hesitate to ask.

Sincerely,

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William A. Cox, M.D. Forensic/Neuropathologist

WAC/vk

130 West Exchange Street Akron, Ohio 44302 Telephone (216) 376-1902 FAX (216) 376-1599

Neurosurgery

Richard C Zahn, MD. Ghassan F. Khayyat, M.D. Kamel F. Muakkassa, M.D. Frederic Lax, M.D.

### Administrator

James F. O'Donnell C.P.A.

January 31, 1995

Jack Morrison, Jr. Amer Cunningham Brennan Co. L.P.A. 6th Floor, Society Building 159 South Main Street Akron, Ohio 44308-1322

**RE:** DAVIS JOSEPH

Dear Mr. Morrison:

I reviewed the medical records pertaining to the hospitalization of Joseph Davis during the period of November 6, medical records 1991 to November 21, 1991. As you know, Mr. Davis was admitted to the hospital with coronary artery disease and underwent percutaneous transluminal coronary angioplasty (PTCA) on November 9, 1991. According to the records, however, on November 8, 1991, a lumbar puncture (LP) was performed, because of the development of change in mental status. Presumably, the LP was done to determine the presence or absence of meningitis. The records indicate that it took some three attempts over a period of one and a quarter hours to obtain the LP because of the patient's and uncooperative behavior. Multiple drugs were confused required to sedate the patient and make him manageable during this period of time. The records indicate that this LP was a "bloody" tap, that is, one which resulted in a mixture of cerebrospinal fluid and blood, the latter likely leaking from subdural and/or arachnoid veins which were inadvertently torn by the LP needle during the procedure because of the patient's Some twelve hours after the LP had been uncooperativeness. completed, the patient was given heparin aggressively for the PTCA procedure. On November 11, 1994, it was determined that the patient had become paraplegic and studies concluded that the patient had a possible hematoma in the lumbar region compressing the spinal cord and cauda equina in the area of the LP. The afternoon of November 11, 1994, surgical decompression was performed, removing a subdural and subarachnoid hematoma in the lumbar area. Apparently, the patient continues to be paraplegic despite the surgery.

> PLAINTIFF'S EXHIBIT KALF757

Neurology

Jon L. Weingart, M.D. Lawrence M. Saltis, M.D. Thomas L. Strachan, M.D. Hugh J. Miller, M.D. Jose C. Rafecas, M.D. page 2

TO: Mr. Morrison

RE: DAVIS, JOSEPH

It is my medical opinion, from my reading the records, that the lumbar puncture was an appropriate procedure considering the circumstances of the patient. This lumbar puncture resulted in a known situation, that is, a bloody tap. When the patient was anticoagulated some twelve hours later, a hematoma evolved because of leakage of blood from the previously torn subdural arachnoid veins surrounding the spinal cord and cauda equina. This situation is a known complication of anticoagulating a patient who has suffered a bloody tap from an LP. Unfortunately, the records disclose that no laminectomy checks were done. It is a reasonable medical certainty that, had these laminectomy checks been done, the evolving spinal cord campression in the area of the hematoma would have been identified and more expeditiously treated. It is my medical opinion that the standard of care dictates that laminectomy checks be done during the the of anticoagulation after an LP has been done whether an LP is bloody or not bloody.

I hope this answers any questions you might have regarding my review of this gentleman's records.

Very sincerely yours,/

LMS:dr

Warda J. Burns, R.N.
545 Wyoming Avenue Niles, Chio 44446 (216) 652-5827

February 1, 1995

Mr. Richard Cunningham Attorney at Law Sixth Floor Society Building 159 S. Main Street Akron, Chio 44308-1322

## Dear Mr. Cunningham:

I have reviewed the medical records of Joseph Davis that I received from your office. I have completed my review and my opinion follows.

The medical records describe a 62 year-old male admitted to University Hospital of Cleveland on November 6, 1991. Previously Mr. Davis was a patient at Canton Aultman Hospital and was transferred to University Hospital due to cardiac arrhythmias.

A patient history, physical assessment and nursing data base was obtained upon the admission of Mr. Davis to University Hospital. The physical assessment describes Mr. Davis as alert and oriented to person, place, and time. Skin is healthy, warm with good trugor, abdomen soft nondistended with bowel sounds present. All peripheral pulses were normal and Mr. Davis had full range of motion of his extremities and was able to move his extremities against full resistance. He was intubated and on a ventilator.

On November 8, 1991, on the 3-11 shift, a lumbar puncture was performed with difficulty. The puncture was attempted three times before success. A progress note written or November 9, 1991, at 3:15 a.m. states the lumbar puncture did not clear and it is difficult to interpret the results and Mr. Davis will need a repeat humbar puncture in the future.

Mr. Davis' cardiac ectopy continued and on November 9,1991 at approximately 11:20 a.m. he underwent a percutaneous transluminal coronary angioplasty (PCTA) via the right femoral artery and IV heparin was started post PCTA.



Mr. Richard Cunningham Attorney at Law Page 2

On November 10,1991 at 4:00 p.m. a progress note is written stating Mr. Davis "cannot move legs" and a neuro consult was obtained. A diagnosis of a epidural hematoma extending from the 12th thoracic vertebrae to the 1st and 2nd lumbar vertebrae was made. At 10:25 p.m. Mr. Davis was sent to surgery for evacuation of the hematoma. Mr. Davis is now a paraplegic.

Standard nursing care for a patient who has undergone a lumbar puncture would include:

Visualization of the lumbar puncture site for leaking of fluid, blood, swelling or discoloration, pain in the back at or around the puncture site. The findings should be documented. In addition to checking the puncture site, the nurse should check the patient's level of consciousness, band grasps, foot pushes and pulls and sensation of extremities. These findings should also be documented.

The following **is** a *summary* of the neuro assessments performed OR Mr. Davis **after the** lumbar puncture.

11-08-91 at 8:00 p.m. - foot push/pulls intact, equal hand grasps 11-09-91 at 12:30 a.m. - hand grasps/foot push/pulls intact 11-09-91 (7-3 shift) - foot pushes intact 11-09-91 (3-11 shift) - no documentation regarding neuros 11-09-91 (11-7 shift) - no documentation regarding neuros 11-10-91 (7-3 shift) - no documentation regarding neuros 11-10-91 at 4:00 p.m. - discovery of flaccid lower extremities

There is not any assessment of the lumbar puncture site for any of these shifts.

Nervous tissue is very fragile and diagnosis and treatment of any *neuro* condition that compromises the spinal cord must be rendered in a timely fashion to avoid permanent damage. The Nursing Practice Act of Ohio mandates Registered Nurses are required to have specialized knowledge, judgment, and skill derived from the nursing science principles when rendering nursing care. Nursing Care consists of identifying actual or potential problems through nursing assessment and executing the nursing process.

Daily nursing practice involves **performing and documenting a** complete **and accurate** assessment **based upon the Nursing Process**. The Nursing Process includes:

- **1.** Assessment
- **2.** Nursing Diagnosis

Mr. Richard Cunningham Attorney at Law Page 3

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- 3. Plan of Care
- 4. Implementation
- 5. Evaluation

The nurses that rendered care to Mr. Davis fell below the standard of care in that the nurses did not properly assess the neurological status or the lumbar puncture site of Mr. Davis. If you have any questions, please contact me.

Respectfully submitted,

Wanda J. Borns R. N

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Wanda J. Burns, R.N. 545 Wyoming Avenue Niles, Chio 44446 (216) 652-5827



# THE CLEVELAND CLINIC FOUNDATION

A National Referral Center - An International Health Resource

Iain H. Kalfas, M.D., F.A.C.S. Department of Neurosurgery 880-216-111-9064 Office

March 23,1995

Mr. Kris Treu 1100Huntington Building 925 Euclid Avenue Cleveland, Ohio 44115-1475

**RE:** Joseph E. Davis vs. University Hospitals of Cleveland, et al.

Dear Mr. Treu:

I **reviewed** the medical records pertaining to the hospitalization of Joseph Davis from November 6, **1991** to November **21**, **1991**. The salient points that I gathered from the record indicate that Mr. Davis was transferred to University Hospitals of Cleveland on November 6, **1991**, from Aultman Hospital in Canton. **His** diagnosis at that time was cardiac arrhythmias.

On November 8, he was noted to be confused and agitated. The CT scan of the brain was unremarkable. A neurology consultation was obtained. The neurologist recommended a lumbar puncture as soon as possible. He then stated that Heparin could be started following the lumbar puncture.

On November 8, **a** 5:30 p.m., a lumbar puncture was attempted. This attempt and another attempt were unsuccessful. At 6:45 p.m., **a** third attempt to obtain spinal fluid fiom the lumbar region was **successful**. Laboratory **analysis** of the spinal fluid showed no evidence of meningitis but did show evidence of a large number of **red** blood cells in the spinal fluid. **This** was most likely secondary to the spinal **needle** inadvertently injuring **a** vessel within the spinal canal. **This** is termed **a** traumatic lumbar puncture. In and of itself, it is usually not clinically significant.

On November 9, Mr. Davis subsequently developed recurrent ventricular fibrillation and cardiac arrest prompting an urgent coronary angioplasty. In preparation for this procedure, Mr. Davis was placed on intravenous Heparin at approximately 7:00 a.m. on the morning of November 9. This would be approximately 13 hours following the lumbar puncture.

The angioplasty **was** performed and **Mr**. Davis' clinical status stabilized. He was continued on intravenous Heparin per standard post-angioplasty protocol.

## March 23, 1995 Joseph E. Davis vs. University Hospitals of Cleveland, et al.

On November 10, the nurse's note at 8:00 a.m. indicated that Mr. Davis was moving all extremities. The next pertinent nurse's note occurs at 8:45 p.m. on November 10. There is a preoperative note that states that Mr. Davis was found flaccid in both lower extremities at "1530 today."

An MRI of the lumbar spine was obtained somewhere between 5:00 p.m. and 7:00 p.m. on November 10. This demonstrated a large hematoma at the T12-L1 level with an intrathecal component at the L3 through sacral levels. A neurosurgical consultation was obtained and a surgical decompression was recommended.

The surgical procedure began at 10:25 p.m. on November 10 and lasted until 12:45 a.m. on November 11.

It is my opinion that the intrathecal hematoma was a result of the **lunbar** puncture. This may have occurred without the patient being on Heparin but under these circumstances, it is most likely directly related to the commencement of Heparin therapy. However, given Mr. Davis' critical cardiac status, it does not appear that the Heparin could have been avoided.

The surgery to remove the hematoma was begun approximately seven hours after the patient was **noted** to be plegic. Given the need to obtain an MRI and stabilize a cardiac patient for surgery, I felt that the surgery was commenced in a reasonable interval of time.

The question **is** whether or not the paraplegia could have been identified earlier. The latest note stating he had normal lower extremity function was at 8:00 a.m., November 10. **This** preceded identification of the paraplegia by approximately **7** 1/2 hours. Presumably, the weakness began in that window of time. Whether or not identification of the leg weakness a few hours earlier would have changed the outcome in this case is difficult to determine one way or the other. In my experience **with** spinal surgery and procedures to decompress the spinal cord in similar settings, **I** can state with **a** reasonable degree of medical probability that earlier identification of this problem by a few hours would most likely not change the outcome in this case. **I** state **this** because **I** have had a number of patients who have had improvement of neurological deficits following surgery that occurred at an interval greater from the onset of the patient's symptoms than occurred in this case.

In summary, I feel that the intrathecal hematoma was related to the lumbar puncture and Heparin therapy. The appropriate studies and treatment was performed within the standards of medical care for this condition.

If you have any other questions regarding Mr. Davis, please do not hesitate to contact my office.

Sincerely,

LA Kalfas

Iain H. Kalfas, M.D., F.A.C.S.

IHK/hb

### ASSOCIATED COURT REPORTING, INC One Cascade Plaza Suite 1025 Akron, Ohio 44308

(2 16) 434-8800

August 7, 1995

J

Kris H. Treu, Esq. Suite 1100, Huntington Building Cleveland, Ohio 44115-1475

RE: Joseph E. Davis vs. University Hospitals of Cleveland, et al.

Dear Mr. Treu:

Enclosed you will find a copy of the deposition of Iain H. Kalfas, M.D., F.A.C.S., which was taken on August 3, 1995.

You will recall that at the time of **the** deposition signature was not waived. Please have the witness read his deposition and make any corrections on the correction sheet only and sign the signature pages.

When this has been completed, please return **a** signature page and correction sheet to our office.

Sincerely,

Michael Christy

cc: Richard T. Cunningham, **Esq.** File