

IN THE COURT OF COMMON PLEAS  
CUYAHOGA COUNTY, OHIO

-----  
JAN S. GLASSER, et al.,  
Plaintiffs,  
vs.  
NOEL ABOOD, M.D., et al.,  
Defendants,  
-----

1  
Case No.  
350062

DEPOSITION

of GARY L. REA, M.D., Ph.D.

Taken at the offices of  
The Ohio State University Hospitals  
Division of Neurologic Surgery  
N1011 Doan Hall  
410 West 10th Avenue  
Columbus, Ohio 43210

on June 23, 1999, at 6:00 p.m

Reported by: Christine-Ann B. Marr, RDR

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1 APPEARANCES:

2 Mr. Mark W. Ruf  
3 Attorney at Law  
4 Hoyt Block, Suite 300  
5 700 West St. Clair Avenue  
6 Cleveland, Ohio 44113-1230  
7 (216) 687-1999

8 on behalf of the Plaintiffs

9 Ms. Victoria L. Vance  
10 ARTER & HADDEN, L.L.P.  
11 1100 Huntington Building  
12 925 Euclid Avenue  
13 Cleveland, Ohio 44115  
14 (216) 696-1100

15 on behalf of the Defendants

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It is stipulated by and between counsel for the respective parties that the deposition of GARY L. REA, M.D., Ph.D., the witness herein, called by the Plaintiff under the applicable Rules of Civil Procedure, may be taken at this time by the notary pursuant to notice; that said deposition may be reduced to writing in stenotypy by the notary, whose notes thereafter may be transcribed out of the presence of the witness; and that the proof of the official character and qualification of the notary is waived.

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1 GARY L. REA, M.D., Ph.D.

2 being first duly sworn, as hereinafter  
3 certified, deposes and says as follows:

4 EXAMINATION

5 BY MR. RUF:

6 Q. Doctor, my name is Mark Ruf. I am  
7 representing Jan Glasser in a chiropractic  
8 malpractice case brought against Dr. Abood.  
9 If at any time I ask you a question and you  
10 do not understand my question, please tell  
11 me, If you give me an answer to a question,  
12 I'll assume that you've understood the  
13 question, okay?

14 A. Yes, sir.

15 Q. Could you state your name and spell  
16 your name.

17 A. Gary Lynn Rea, Last name is Rea,  
18 R-e-a,

19 Q. And what is your professional  
20 address?

21 A, I'm at Ohio State University,  
22 Division of Neurosurgery, 1037 Doan Hall,  
23 Columbus, Ohio 43210.

24 Q. Have you ever written on lumbar

1 spine herniations?

2 A. Right off the top of my head, I  
3 can't think of any specific paper I've  
4 written dealing with it. I've probably  
5 given some talks on it, but never any  
6 refereed papers.

7 Q. In your paper, "Spinal trauma:  
8 Current evaluation and management," did you  
9 discuss the types of trauma that could cause  
10 lumbar spinal herniations?

11 A. No, that was -- actually, that was  
12 cervical trauma, neck trauma.

13 Q. Have you ever written on the types  
14 of trauma that can cause lumbar herniations?

15 A. Not in any of my refereed journals I  
16 can think of. I talk a lot about trauma,  
17 but not written, researched, that sort of  
18 thing.

19 Q. Are there any neurosurgical  
20 textbooks that you use in your practice?

21 A. I use several. Wilkins and  
22 Rengachery -- that's W-i-l-k-i-n-s, and  
23 Rengachery is R-e-n-g-a-c-h-e-r-y, I  
24 think -- their textbook on neurosurgery.

1     There's Youman's, Y-o-u-r-n-a-l-s, text on  
2     neurosurgery. Those are generic texts that  
3     can be referred to. They are like all other  
4     textbooks. They have some inaccuracies and  
5     some things that are not completely clear,  
6     but those are textbooks that I look at.

7           Q. Do you regularly use those in your  
8     practice?

9           A. No.

10          Q. Do you ever refer to those in your  
11     practice?

12          A. Almost never.

13          Q. Did you use those books during your  
14     training?

15          A. Yes.

16          Q. Where did you receive your medical  
17     training?

18          A. I went to Baylor College of Medicine  
19     in Houston, where I did medical school, and  
20     I did my year of general surgery at the  
21     University of Texas at Houston. Then I did  
22     my neurosurgery training at University of  
23     Minnesota and did a fellowship in Zurich,  
24     Switzerland after that, and then I came to

1 Ohio State.

2 Q. Are there any orthopedic textbooks  
3 that you use in your practice?

4 A. I use Simeone's book on the spine.  
5 Other -- also there's the textbook by Ed  
6 Benzel, B-e-n-z-e-l, who is a neurosurgeon  
7 who also wrote a book on the spine, and I  
8 use his. And there's another newer one out  
9 by Sonntag, S-o-n-n-t-a-g, that also I've  
10 looked at. I have to admit I haven't looked  
11 at it lately.

12 Q. I went over to the library before  
13 the deposition, Do you go over to the  
14 library on occasion?

15 A. Not the university library, no.

16 Q. Is the book by Simeone --  
17 Rothman-Simeone, The Spine?

18 A. That's a book, yes.

19 Q. Is that the book you were referring  
20 to?

21 A. I think so, yes.

22 -=0=-

23 (Deposition Exhibit 1 marked.)

24 -=0=-



1           Q. Doctor, this is the cover page of  
2           the book we were just discussing that's been  
3           marked as Plaintiff's Exhibit 1.

4           A. Okay.

5           Q. Have you found the information in  
6           the book by Simeone to be accurate and  
7           reliable?

8           A. There is no book that I would agree  
9           entirely with, I can't think of anything  
10          off the top of my head in that book that I  
11          disagree with, but I know from experience  
12          that every book that you read has things in  
13          it that I don't agree with. No book is  
14          perfect, no book is completely factual, and  
15          all contain the opinions of the authors.  
16          Even the books and chapters that I've  
17          written have my opinions in them that other  
18          people would disagree with.

19          Q. So there's no neurosurgery textbook  
20          or orthopedic textbook that you would be  
21          willing to say is authoritative or accurate  
22          and reliable?

23          A. 100 percent, no, that's correct.  
24          There is no 100 percent authoritative

1 textbook in probably any area of science, or  
2 in any area.

3 Q. Is there a textbook that you have  
4 found to be consistently accurate and  
5 reliable in either neurosurgery or  
6 orthopedics?

7 MS. VANCE: Objection.

8 A. "Consistently," what do you mean?

9 Q. Well, you said not 100 percent.

10 A. Correct.

11 Q. Are there either neurosurgery  
12 textbooks or orthopedic textbooks that you  
13 consider to be reliable sources of  
14 information?

15 A. All --

16 MS. VANCE: Objection

17 A, All textbooks have all sorts of  
18 information. And most of their data is  
19 reliable, but not all of it is correct. All  
20 of it, like I said, reflects the opinions of  
21 the authors, which is not always backed up  
22 by scientific fact.

23 --0--

24 (Deposition Exhibit 2 marked.)

1                                   -=O=-

2           Q.    I'm handing you what's been marked  
3    as Exhibit 2.  Are you familiar with that  
4    textbook, The Lumbar Spine?

5           A.   No, I don't think this one I'm  
6    familiar with.

7           Q.   Are there any medical periodicals  
8    that you receive and regularly review?

9           A.   The one I review the most probably  
10   and the easiest is The Back Letter, which is  
11   a -- almost a newspaper on -- that talks  
12   about research that's going on in the spine.  
13   I also read the Journal of Spinal Disorders  
14   and Spine.  Those are the journals that I  
15   read the most.  Also, of course, I read  
16   Neurosurgery and the Journal of  
17   Neurosurgery.

18          Q.   Why do you read those journals?

19          A.   For information.

20          Q.   Is it to keep current on what's  
21   going on in medicine?

22          A.   Yes.

23          Q.   Do you think that a physician has an  
24   obligation to stay current on the medical

1 literature?

2 MS. VANCE: Objection.

3 A. You want to try to. It's hard to  
4 stay up. I don't stay up perfectly. I  
5 don't think anyone does. But you try to.

6 Q. And what's the purpose of staying  
7 current on the medical literature?

8 A. So you can treat your patients  
9 better.

10 Q. Have you studied the complications  
11 that can occur from chiropractic  
12 manipulations?

13 A. Not specifically.

14 Q. Have you reviewed any literature on  
15 potential complications that can result from  
16 chiropractic manipulation?

17 A. No.

18 Q. Have you treated patients that have  
19 had complications from chiropractic  
20 manipulations?

21 MS. VANCE: Objection.

22 A. I can't think of anybody that I've  
23 treated that I thought had a problem  
24 associated with chiropractic manipulation.

1           Q.   Do you know whether chiropractic  
2   manipulation of the lumbar spine in a  
3   patient with a herniated disk at L4-5 can  
4   result in further herniation or an  
5   aggravation of that disk?

6           MS. VANCE:  Objection.

7           A.   I'm sorry, could you say that again.

8           MR. RUF:  Could you read the  
9   question back, please.

10          (Record read back as requested.)

11          MS. VANCE:  Objection.

12          A.   Okay,  So is it possible -- can I  
13   restate the way I understand it?

14          Q.   Yes.

15          A,   So is it possible that someone can  
16   have manipulation and a disk herniate out  
17   further with chiropractic manipulation?

18          Q.   Yes.

19          A.   Okay.  Just -- and I would say the  
20   answer is yes, it is possible that that  
21   could occur at the same time.

22          Q.   What do you mean, "that could occur  
23   at the same time"?

24          A.   The same way it can occur with

1 someone sneezing or having a bowel movement  
2 or lifting something or anything -- any  
3 activity of life, those things can occur  
4 together.

5 Q. So do you agree that a herniated  
6 disk at L4-5 could be aggravated due to a  
7 lumbar manipulation by a chiropractor?

8 MS. VANCE: Objection.

9 A. Could it be? I mean, is it  
10 possible? Anything is possible.

11 Q. In the medical literature, are you  
12 aware of what complications are reported as  
13 a result of chiropractic manipulation of the  
14 lumbar spine?

15 A. From my memory, I am -- I can  
16 remember that it has been reported that you  
17 could have -- you know, the chiropractic  
18 manipulation can be associated with  
19 herniated disks, but, like I said, just  
20 as -- just as any other activity can as  
21 well.

22 Q. What about aggravation of a  
23 herniated disk through manipulation?

24 MS. VANCE: Objection.

1 A. What do you mean by "aggravation"?

2 Q. Can you have further extrusion of  
3 disk material from a chiropractic  
4 manipulation?

5 MS. VANCE: Objection.

6 A. Can you? Is it possible? I suppose  
7 anything is possible, yes.

8 Q. Do you agree that if rotational  
9 force was applied to Jan Glasser's spine  
10 from August 7 through September 24, that  
11 would cause a further herniation of her  
12 disk?

13 MS. VANCE: Objection.

14 A. That --

15 MS. VANCE: No basis.

16 THE WITNESS: Sorry.

17 A, That, I don't know.

18 BY MR. RUF:

19 Q. Do you know what type of movement  
20 would cause a further aggravation of Jan  
21 Glasser's disk starting from August 7 of  
22 19963

23 A. Any movement of the lumbar spine  
24 that we do by, like I said, sitting,

1 standing, having a bowel movement, coughing.,  
2 sneezing. All of those can be associated  
3 with further herniation of the lumbar disk,  
4 and I've heard all of those descriptions  
5 with people telling me that's when their  
6 pain started. So any movement of the spine  
7 can be associated with further herniation.

8 Q. Are you saying that flexion and  
9 extension of the lumbar spine could have  
10 caused further herniation?

11 A. Any movement can be associated with  
12 further herniation.

13 Q. Have you performed osteopathic  
14 manipulation in your practice?

15 A, No.

16 Q. Are you familiar with the type of  
17 techniques that can be used in osteopathic  
18 manipulation?

19 MS. VANCE: You're drawing a  
20 distinction between osteopathic and.  
21 chiropractic?

22 MR. RUF: Yes, since he is a medical  
23 doctor, I'm asking him about osteopathic.

24 A. No.



1 BY MR. RUF:

2 Q. Have you ever performed osteopathic  
3 manipulation on a patient?

4 MS. VANCE: Objection.

5 A. No.

6 Q. Have you studied the types of forces  
7 or trauma that can cause injury to the  
8 spine?

9 A, Yes.

10 Q. Could you tell me what types of  
11 trauma or force could cause an aggravation  
12 or additional herniation of disk material.

13 A, I may have misunderstood your  
14 question, your question before. When I was  
15 talking about -- you were talking about  
16 injuries to the spine, I was thinking about  
17 injuries to the bony elements of the spine,  
18 such as automobile accidents,  
19 flexion/extension injuries, those sorts of  
20 forces, not particularly associated with  
21 lumbar disks.

22 Q. Okay, Let me ask you --

23 A, Go ahead,

24 Q. -- about lumbar disks.

1           A.   Go ahead,

2           Q.   Have you studied the effect force  
3           and trauma has on the disks in the lumbar  
4           spine?

5           A.   No.

6           Q.   Are you familiar with what types of  
7           force can cause a herniation of a disk in  
8           the lumbar spine?

9           A.   Are you talking about the amount of  
10          force like in, you know --

11          Q.   First of all, why don't we ask about  
12          the amount of force.

13          A.   Okay.  No, don't know.

14                PIS. VANCE:  Can I just go back to  
15          clarify,  When you were saying have you  
16          studied, do you mean textbook study,  
17          research study, or study based on  
18          experience?

19                MR. RUF:  Any of the above.

20          A.   I've read about them.  I don't  
21          remember the details of especially the  
22          amount of joules or whatever, you know,  
23          foot-pounds or whatever it would use to  
24          measure that, but I don't remember what they

1 are.

2 Q. Do you know whether rotational force  
3 of the lumbar spine in a patient with an  
4 L4-5 herniated disk has a greater  
5 probability of causing further extrusion of  
6 the disk than a flexion/extension motion of  
7 the lumbar spine?

8 MS. VANCE: Objection.

9 A. From what I know, the rotational  
10 force is the force that the disk is least  
11 able to deal with. Flexion/extension, it  
12 has -- it's a little better -- it's a little  
13 easier for the disk to handle  
14 flexion/extension, and rotational forces it  
15 is less able to handle.

16 Q. Do you agree that a herniated disk  
17 is weaker than a nonherniated disk?

18 A. Weaker in what way?

19 Q. Well, is a herniated disk more  
20 susceptible to injury than a normal disk?

21 A. Once they are herniated, if it's  
22 true herniation and the disk is already out,  
23 I'm not sure that it's more susceptible --  
24 it kind of has to do with your definition of

1     it, I suppose. A disk that's already out or  
2     partially out, is it more susceptible to  
3     other problems? I don't know the answer to  
4     that.

5             Biomechanically, I know that when  
6     you have to do a diskectomy, for example,  
7     that the disk functions about the same  
8     whether it's herniated or it's not  
9     herniated. So I don't really know -- I  
10    guess I don't understand the question.

11            Q. Well, do you agree, with a herniated  
12    disk the integrity of the annulus has been  
13    compromised?

14            A. Correct.

15            Q. In other words, the disk extrudes  
16    out through the annulus?

17            A. Correct.

18            Q. What is the consistency of disk  
19    material? Is it like crabmeat or chopped-up  
20    meat?

21            A. Crabmeat is the classic description  
22    of it. I always say it's more like an  
23    oyster. It's a little more watery. But it  
24    depends on how old it is, and how long it's

1       been out, and those sorts of things, how dry  
2       it is.

3           Q.   What --

4           A.   It --

5           Q.   Are you finished?

6           A.   Yes, sorry.

7           Q.   What is the consistency of the  
8       annulus?

9           A.   Very tough.

10          Q.   So would you agree when there's a  
11       herniation, that tough outer layer has been  
12       compromised?

13          A.   Correct,

14          Q.   And does that make the disk subject  
15       to further extrusion by forces exerted on  
16       that disk?

17          A.   It could, yes.

18          Q.   And that's because this tough outer  
19       layer has been compromised?

20          A.   Correct.

21          Q.   Is that something that a physician  
22       should take into consideration before  
23       manipulating the spine --

24               MS. VANCE:  Objection.

1           Q.    -- in a patient with a preexisting  
2   herniated disk?

3           MS. VANCE:  Objection.

4           A.    I don't manipulate the spine.

5           Q.    So you would have no opinion on  
6   that?

7           A.    Well, I do know that I have patients  
8   who have herniated disks that are  
9   manipulated by chiropractors.

10          Q.    And do you know what types of  
11   manipulations are indicated in a patient  
12   with a herniated disk?

13          A,    No.

14          Q.    I noted that after your medical  
15   fellowships, you became an assistant  
16   professor.

17          A.    Correct.

18          Q.    Is there a full professorship here  
19   at Ohio State?

20          A.    Yes.

21          Q.    What's the difference between an  
22   assistant professor and a full professor?

23          A.    You go assistant, associate, and  
24   then full professor.  So it's usually about

1 10 or 15 years' difference.

2 Q. And at what stage are you at  
3 currently?

4 A. I'm an assistant professor.

5 Q. How long have you been practicing  
6 neurosurgery here at Ohio State?

7 A. Since '86.

8 Q. And the level of professorship is  
9 based on your experience?

10 A. No, based partly on your experience,  
11 partly on your research, kind of a  
12 combination of all those things.

13 Q. Are you an employee of the  
14 university?

15 A, Yes, partially.

16 Q. Do you have your own private  
17 practice?

18 A. No, not entirely. We have a --  
19 it's -- the department of surgery has a  
20 large multispecialty group practice, and so  
21 part of my salary comes from the university,  
22 and part of it comes from the department of  
23 surgery.

24 Q. Have you ever practiced neurosurgery

1 outside of the university?

2 A. No.

3 Q. Could you describe for me your  
4 current practice,

5 A. 95 percent of it is work on the  
6 spine.

7 Q. What other areas of the body do you  
8 operate on?

9 A. I do craniotomies for trauma, but  
10 don't do much of the elective work on the  
11 brain. Here we, all of us, subspecialize.

12 Q. Are you involved in teaching  
13 residents and interns?

14 A. Yes.

15 Q. What percentage of your time is  
16 spent performing surgery?

17 A. You mean as opposed to doing --  
18 seeing patients in clinic and --

19 Q. Yes.

20 A. Okay. I have -- I operate two and a  
21 half days a week. I see patients in the  
22 clinic two days a week. And then the other  
23 half day is spent in meetings.

24 Q. What types of spinal surgery do you



1 perform on the lumbar spine?

2 A. I do fusions, decompressions,  
3 diskectomies, instrumentation, for trauma,  
4 infection, tumor, degenerative disease.

5 Q. How often do you perform  
6 laminectomies and diskectomies?

7 A. They --

8 MS. VANCE: Lumbar?

9 MR. RUF: Yes, of the lumbar spine.

10 A. Yes, if you talk -- I do primarily  
11 micro diskectomies. They probably make up  
12 20 percent of the work that I do in the  
13 lumbar spine. Actually overall, over all my  
14 work, they probably make up 20 percent,  
15 maybe 25 percent of what I do. It's a  
16 sizable chunk of what I do, is lumbar spine.

17 BY MR. RUF:

18 Q. On a monthly basis, how often would  
19 you perform either a laminectomy or a  
20 diskectomy of the lumbar spine?

21 A, Between 10 and 15 a month, I'd say.  
22 Let me see if that adds up right. So ...  
23 that's close. You could say 8 to -- 8 to  
24 14, somewhere around that, a month.

1           Q.    Could you tell me the acceptable  
2           complications that can result from a  
3           laminectomy or a diskectomy.

4           A.    I suppose you'd have to say what is  
5           acceptable.

6           Q.    Well, if there's another term you  
7           would prefer to use, go ahead.

8           A.    There are recognized complications  
9           of a diskectomy. And they range all the way  
10          from death, which is very unlikely, to minor  
11          complications such as skin infections.

12          The other complications are  
13          worsening of your condition or of pain. We  
14          usually tell our patients there's about a  
15          1 percent risk of that. There's the risk of  
16          a reherniation. If you take out a disk, we  
17          never take out all of the -- of the nucleus.  
18          And so there probably is -- over the  
19          lifetime of the patient, there's probably a  
20          2 or 3 percent chance of having another disk  
21          fragment from the same level.

22          There's also the risk of a spinal  
23          fluid leak, that you injured the dura and  
24          get into a spinal leak. That's pretty rare,

1 but that's probably about half a percent or  
2 so.

3 The risk of infection is around  
4 3 percent. The risk of an injury to the  
5 blood vessels, the iliac blood vessels, such  
6 that you can have bleeding in the abdomen,  
7 is probably about a third of a percent,  
8 maybe a little bit less. I will say a third  
9 of a percent,

10 That's the ones I can think of off  
11 the top of my head.

12 Q. Do you have an opinion as to whether  
13 Jan Glasser suffered a complication from her  
14 surgery performed by Dr. Likavec on  
15 October 14, 1996?

16 A. From the information I have, she --  
17 it looks like she got some better but did  
18 not get completely better after the surgery.

19 Q. Doctor, my question is do you have  
20 an opinion as to whether she suffered from a  
21 complication from the surgery performed by  
22 Dr. Likavec on October 14?

23 MS. VAN'CE: I think he answered  
24 that.

1           A.    I didn't see a complication in there  
2   that I could say this was a true  
3   complication.

4           Q.    Do you have any criticisms of the  
5   technique of Dr. Likavec in performing the  
6   surgery on October 14?

7           A.    No.

8           Q.    Would you agree that due to the  
9   massive size of the disk, it was a  
10   technically difficult surgery?

11          A.    Sounds like **it** was.

12          Q.    Do you have an opinion as to whether  
13   Dr. Likavec deviated from acceptable medical  
14   practice during the time Jan Glasser was  
15   under his care and treatment?

16          A.    No.

17          Q.    Based on your review of the records,  
18   did any doctor advise Jan Glasser that she  
19   needed surgery before October 14, 1996  
20   during the year 1996?

21          A.    So we're just talking about the year  
22   of 1996 and not before that?

23          Q.    Correct.

24          MS. VANCE:   You are referring just

1 to the records or to anything else?

2 MR. RUF: Correct, just to the  
3 records.

4 MS. VANCE: Just to the records.

5 A. I don't remember anybody saying that  
6 she needed surgery in 1996 other than Dr. --  
7 I think Dr. Likavec and --

8 BY MR. RUF:

9 Q. Let me reask the question --

10 A, Okay.

11 Q. -- so it's more clear.

12 From August 1, 1996 to October 14,  
13 1996, based on the records, did any  
14 physician advise Jan Glasser that she needed  
15 surgery before October 14, 1996?

16 MS. VANCE: Objection.

17 A. I don't remember anybody else asking  
18 her -- telling her that -- advising -- I'm  
19 sorry. I don't remember anybody advising  
20 her to have surgery during that period of  
21 time other than Dr. Likavec.

22 Q. Based on your review of the records,  
23 did Jan Glasser fail to follow medical  
24 advice between August 1, 1996 and

1       October 14, 1996?

2               MS. VANCE:  Objection.

3               A.  Can I look at that?

4               Q.  Sure.

5               A.  I want to ...

6                       (Pause in proceedings.)

7               MR. RUF:  Let's go off the record  
8       one second.

9                       (Discussion off the record.)

10              Q.  Now that you've had a chance to  
11       review the records, can you answer the  
12       question, Doctor?

13              A.  Could you repeat it, please.

14                      (Record read back as requested.)

15              MS. VANCE:  Objection.

16              A,  Not that I know of,

17              MR. RUF:  I thought I said August,  
18       so let me reask.  Could you read back the  
19       question with August in it and have him  
20       answer it.

21                      (Record read back as requested.)

22              MS. VANCE:  Again, based only on  
23       records, I object.

24              A.  Not that I know of.

1 BY MR. RUF:

2 Q. Based on any other information that  
3 you're aware of, did she fail to follow  
4 medical advice from August 1, 1996 to  
5 October 14, 1996?

6 MS. VANCE: Objection.

7 A. Yeah, I don't have any other  
8 evidence.

9 Q. In a patient that you suspect has a  
10 herniated disk in the lumbar spine, do you  
11 perform a physical examination on that  
12 patient?

13 A. Yes.

14 Q. What's the importance of a physical  
15 examination for a person that you suspect  
16 has a herniation in the lumbar spine?

17 MS. VANCE: Objection

18 A. I do a complete exam of the arms and  
19 legs, but the most crucial parts are the  
20 straight leg raising, the reflexes at the  
21 ankles and the knees, and the testing of  
22 strength in the lower extremity.

23 Q. In the straight leg raising test,  
24 what do you have the patient do?

1           A. I usually just have them sit down,  
2           and then I raise the leg up till either it  
3           causes pain or it gets to 90 degrees.

4           Q. And if that test is positive, what  
5           does that tell you?

6           A. It tells you that a nerve root is  
7           being aggravated.

8           Q. When you test the reflexes, what are  
9           you looking for?

10          A. I'm looking to see if they are equal  
11          on both sides, if one set of nerves is being  
12          affected by some pathology or something is  
13          wrong and the reflex is different on one  
14          side versus the other.

15          Q. Are you also looking for absence of  
16          reflex?

17          A. Correct.

18          Q. And if there's a problem with the  
19          reflexes in the patient, then what is that  
20          telling you?

21          A. It may tell me nothing. I mean, it  
22          may tell me they have had an old problem.  
23          Many people have -- for example, have  
24          herniated disks, lose their reflex, and it



1       never comes back even after you decompress  
2       them and they are doing well.

3               But if it's absent, it does make --  
4       it helps you localize, sometimes, what level  
5       is being involved. An L5-S1 disk often will  
6       cause reflex changes at the ankles. An L4-5  
7       disk, if it is large, can cause reflex  
8       changes as well. Or --

9               Q.   When --

10              A.   I'm sorry. Or if the disk is in  
11       just a particular place, it can -- not even  
12       be large. Either one of those levels can  
13       cause reflex changes,

14              Q.   When you're testing for reflexes,  
15       you're testing for that as evidence of  
16       impingement on the nerve?

17              A.   Correct.

18              Q.   What strength tests do you perform  
19       on a person in which you suspect a herniated  
20       disk at L4-5?

21              A.   The most sensitive is the extensor  
22       hallucis longus, testing the toe. You have  
23       them pull their toe up and hold it, and most  
24       people, you can't overcome their strength.

1 But that's almost we -- we like to think  
2 that is almost pure L5, or fifth lumbar  
3 nerve involvement.

4 Then we also test the foot  
5 dorsiflexion, or the ability of the person  
6 to hold their foot up, That is often  
7 normal, and the toe may be weak, but I test  
8 both of those for an L4-5 disk,

9 Q. And when you are testing for  
10 strength, again, you perform those tests for  
11 evidence of impingement on the nerve that's  
12 exiting at that level of the lumbar spine,  
13 right?

14 (Beeper sounds.)

15 A. Well, certainly the level below it,  
16 but yes, that's essentially it.

17 THE WITNESS: I have to stop. I'll  
18 be right back.

19 (Recess taken.)

20 (Record read back as requested.)

21 Q. So when you test reflexes, strength,  
22 and straight leg raising, you are evaluating  
23 the person neurologically?

24 A. Correct.

1           Q.   What orthopedic tests do you perform  
2           on a person who you suspect has a herniation  
3           of the lumbar spine?

4           A.   I kind of consider all of the spine  
5           exams, not necessarily neurosurgical or  
6           orthopedic. I've never heard them described  
7           as one or the other. I also do other  
8           things, such as flex and extend the spine.

9           Q.   What are you looking for there?

10          A.   Really, just about the same as a  
11          straight leg raising. But also I -- I'm  
12          looking for other things as well to see if  
13          they have stenosis-type symptoms. Often  
14          when they bend backwards, they will get pain  
15          down their leg as well, whereas with most  
16          herniated disks you don't.

17               Also I do -- I look for disease of  
18          the hips as well, externally rotating the  
19          hips and internally rotating them. I  
20          suppose that is an orthopedic test, but I  
21          really consider all those spine tests not  
22          neurosurgery or orthopedic, Just spine  
23          tests.

24          Q.   Are there any other tests that you

1 do of the spine during your physical exam?

2 A. Yes, I do a test called Waddell's  
3 test.

4 Q. What is that test?

5 A. W-a-d-d-e-l-l, It supposedly is a  
6 test to see -- well, it has been associated  
7 with multiple Waddell's tests that are  
8 positive, There is a -- an increased  
9 likelihood that you will not find an organic  
10 cause for their pain.

11 Q. What is Waddell's test?

12 A. There's several. There's  
13 tenderness, overreaction to pain,  
14 regionalization, distraction, and  
15 simulation.

16 Q. Okay. Any other tests that you  
17 perform in a physical exam of the lumbar  
18 spine?

19 A. I will sometimes, although rarely,  
20 test for sensation. It's the least reliable  
21 of all the tests, I think.

22 Q. And what's the importance of  
23 assessing a patient neurologically when  
24 you're performing your physical exam on the

1 lumbar spine?

2 MS. VANCE: Objection.

3 A. To make a diagnosis, to document as  
4 best you can objectively the disease process  
5 or the severity of the disease.

6 Q. You do not hold yourself out as an  
7 expert in chiropractic adjustments or  
8 manipulations?

9 A. That is correct,

10 Q. Do you know the type of adjustments  
11 or manipulations that were being performed  
12 by Dr. Abood on Jan Glasser?

13 A' No.

14 Q. Do you know the number of times  
15 Dr. Abood manipulated Jan Glasser?

16 A. No.

17 Q. Do you know if he manipulated her  
18 more than once a day?

19 A. No. No, I don't know.

20 Q. Do you know how Jan Glasser felt  
21 after the manipulations?

22 A. Don't know.

23 Q. Do you know if she had a worsening  
24 of her condition after the manipulations?

1           A.   Don't know.

2           MS. VANCE:   I want to just  
3   interject.   He's been provided with her  
4   deposition testimony.

5           MR. RUF:   I'll get to that.

6           MS. VANCE:   Okay.

7   BY MR. RUF:

8           Q.   Do you know if there was any  
9   rotation of the lumbar spine when Dr. Abood  
10   performed his manipulations?

11          A.   Don't know.

12          Q.   Do you agree that when there's  
13   rotation of the lumbar spine, it causes  
14   increased pressure on the disk?

15          MS. VANCE:   Objection.

16          A.   I don't know.

17                   (Pause in proceedings.)

18          A.   I did say earlier that rotation, the  
19   disk doesn't handle as well.   But I don't  
20   know whether that translates into increased  
21   pressure.

22          Q.   Does the lumbar spine rotate very  
23   well?

24          A.   No.   Especially at the lower levels,

1 it doesn't rotate well.

2 Q. Do you agree that based upon all the  
3 information that you've reviewed, there's no  
4 evidence of trauma to Jan Glasser's spine  
5 from September 24, 1996, which is the last  
6 date of treatment by Dr. Abood, according to  
7 his bills, until the date of surgery?

8 MS. VANCE: How do you define  
9 "trauma"?

10 A. That's the question, really, is how  
11 do you define "trauma."

12 Q. Well, if you need to explain your  
13 answer or qualify it, please do so.

14 A. There's certainly -- as far as I  
15 know, there's no evidence of automobile  
16 accident or anything else. Trauma to the  
17 spine, of course, and herniated disks can  
18 occur with any trauma -- well, can occur  
19 with any activity, as I said, such as  
20 bending or lifting or stooping or any of  
21 those.

22 Those are commonly associated with  
23 herniated disks. If that's trauma, I  
24 imagine she did some of those things -- we

all do -- to put on her socks and shoes and  
2 things like that, But in terms of motor  
3 vehicle accidents, falls, those sorts of  
4 things, I don't know of any evidence of  
5 those.

6 Q. Did you find any evidence that any  
7 type of force was exerted on her spine from  
8 September 24, 1996 up until the date of  
9 surgery?

10 A. If you say "any kind of force," all  
11 of those -- you know, sitting increases the  
12 pressure inside the disk. Lifting and  
13 stooping increase the pressure inside the  
14 disk. Those are forces, and just the normal  
15 forces of life are -- have been exerted on  
16 her.

17 If you are talking about extra  
18 forces, such as -- like I said, trauma such  
19 as an automobile accident or falls, no.

20 Q. Do you agree that based on the  
21 medical records, there's no reference to  
22 sneezing, sitting, or rolling over causing a  
23 further herniation of Jan Glasser's disk?

24 A. I didn't see anything like that, no.



1           Q. Did you see any event recorded in  
2           the medical records from September 24, 1996  
3           until the date of her surgery that could  
4           have caused an aggravation of her herniated  
5           disk?

6           A. Are you just talking about any  
7           incident specifically that said, "This is  
8           the incident that caused her to go numb just  
9           prior to her surgery" -- so I don't -- that  
10          was kind of the critical part, but I didn't  
11          see -- there wasn't any record in there that  
12          that moment several days before the  
13          surgery -- I didn't see an incident  
14          associated with that, no.

15          Q. Do you agree that Jan Glasser had a  
16          herniated disk of her lumbar spine back on  
17          July 30, 1994? That's the date the MRI was  
18          performed.

19                 MS. VANCE: One of the MRIs.

20          A. I think she did, yes. Yes.

21          Q. And do you agree it's more probable  
22          than not that she coughed or sneezed many,  
23          many times between 1994 and 1996?

24          A. Probably did,

1           Q. Is there any evidence that coughing,  
2           sneezing, or any daily activity of living  
3           caused an aggravation of her disk from '94  
4           to '96 before she began treating with  
5           Dr. Abood?

6           A. Well, something made it worse  
7           because she was going to see physicians  
8           because her pain was worsening. Rarely do  
9           people go see physicians or chiropractors if  
10          their pain is not getting worse. If it's  
11          the same, then they don't go see us. So I  
12          would assume that in there something  
13          happened and she began to worsen.

14          Q. Based on your review of the records,  
15          did she receive treatment for her back  
16          between 1994 and 1996?

17                 MS. VANCE: Objection.

18          A. I can look and see.

19                 (Pause in proceedings.)

20                 MS. VANCE: What date do you want to  
21          use in '94? January? July?

22                 MR. RUF: September.

23          BY MR. RUF:

24          Q. From September of '94 to August of

1 '96, based on the records, did Jan Glasser  
2 seek out medical treatment for her back?

3 MS. VANCE: Objection.

4 A. Let's see.

5 MS. VANCE: Does the fact that she  
6 is taking medications count? I don't know  
7 how you want to interpret that.

8 MR. RUF: (Indicates negatively.)

9 MS. VANCE: Somebody's prescribing  
10 them.

11 MR. RUF: Let's go off the record.

12 (Discussion off the record.)

13 MS. VANCE: Let me just interject.

14 Dr. Rea's looked through some of these  
15 records, but the records will be in  
16 evidence, and they show what they show in  
17 terms of history. He hasn't had a chance to  
18 turn every page at this moment in time.

19 A, Don't see a visit there in between  
20 that period of time.

21 BY MR. RUF:

22 Q. Doctor, have you thoroughly reviewed  
23 the records in order to render your opinions  
24 in this case?

1           A.   The records I have available to me,  
2   yes.

3           Q.   What did you review in order to form  
4   your opinions in this case?

5           A.   The deposition of Ms. Glasser; the  
6   deposition of Dr. Likavec; the records of  
7   Meridia Hospital; Dr. Ruch's records;  
8   Dr. Frolkis, F-r-o-l-k-i-s; Dr. Leb, L-e-b;  
9   Dr. Likavec's records; Mount Sinai Hospital  
10   records; Dr. Bell's records; the Cleveland  
11   Clinic records; Dr. Byers' records;  
12   Dr. Morganstern's records; and  
13   Dr. Marsolais', M-a-r-s-o-l-a-i-s, records.  
14   No -- oh, and then just a report from  
15   Dr. Gatlin.

16           MS. VANCE:   This is the office note  
17   of Gordon Bell in July of '98.

18           THE WITNESS:   I think that's already  
19   in there.   Yeah.

20           A.   And this is another report of  
21   Dr. Ruch, which I think was in the other  
22   records,   That's already in the records.

23           MS. VANCE:   He has got Dr. Likavec's  
24   report.   To the extent it's not part of his

1 records, that's there,

2 A. These are all the same. That's  
3 essentially it.

4 BY MR. RUF:

5 Q. Did you review any of Jan Glasser's  
6 films?

7 A. Yes, I believe I did,

8 Q. Do you know what films you reviewed?

9 A. May I go get them?

10 MR. RUF: Sure,

11 MS. VANCE: You don't have them.

12 THE WITNESS: We don't have them  
13 anymore?

14 MS. VANCE: No, those are the  
15 original records. I've got them itemized.

16 Basically, it's everything that's  
17 been provided to defense counsel. The four  
18 MRIs, September of '90, July '94, October  
19 '96, and July 8 of '97. He also saw the  
20 x-ray from Dr. Abood's office in August '96  
21 and some plain film x-rays from the  
22 Cleveland Clinic in July '98.

23 And in addition, besides the records  
24 he mentioned -- I don't know if he

1 specifically mentioned physical therapy  
2 records of Mr. Lepp, L-e-p-p, if they  
3 weren't already noted.

4 THE WITNESS: Yes, they were. I'm  
5 sorry.

6 MS. VANCE: Okay.

7 BY MR. RUF:

8 Q. Did you make any notes based on your  
9 review of the records, depositions, or  
10 films?

11 A. I made some little scribbly notes,  
12 but that's all.

13 Q. Could I see your notes.

14 A, Sure. Just a minute.

15 (Pause in proceedings.)

16 A. (Handing)

17 MR. RUF: I'd request, counsel, that  
18 I get a copy of the notes of the doctor.

19 MS. VANCE:: Okay.

20 BY MR. RUF:

21 Q. Did you make any comments based on  
22 your review of the films or did you take any  
23 notes based on your review of the films?

24 A. No, I didn't.

Q. Do you have an opinion as to whether  
there was a significant worsening or  
aggravation of Jan Glasser's L4-5 herniated  
disk from July 30, 1994 to October 7, 1996?

MS. VANCE: October 7?

MR. RUF: That's the date of the MRI  
at the Cleveland Clinic.

A. I didn't make a note of that.

BY MR. RUF:

Q. Do you know whether there was a  
substantial worsening?

A. I did see a picture, and from that  
picture it looked like it was bigger.

Q. Do you know how much bigger?

A. Don't know,

Q. Let me ask you if you have opinions  
in the following areas: No. 1, as to  
whether Dr. Abood met the acceptable  
standard of care.

MS. VANCE: Objection. I'm not  
offering Dr. Rea for that purpose.

A. I don't know.

Q. You have no opinion?

A. No opinion.

1           Q.   No. 2, as to whether Dr. Abood's  
2           adjustments aggravated Jan Glasser's  
3           herniated disk at L4-5 or caused further  
4           extrusion of the disk material.

5           A.   Don't know.

6           Q.   So you have no opinion?

7           A.   No opinion,

8           Q.   Do you have an opinion as to the  
9           cause of Jan Glasser's current condition?

10          A,   I think the -- I think the answer is  
11          yes, I do have an opinion on that.

12          Q.   Okay.

13          A.   I believe her disk herniated out  
14          further between the time that she was seen  
15          by Dr. Likavec and before she had her  
16          surgery. In reading through the notes,  
17          there's no report anywhere that I can see of  
18          perineal numbness until right before the  
19          surgery. It was at that time, I believe,  
20          that she worsened and her disk herniated out  
21          further, she became more symptomatic; and  
22          the problems that seemed to bother her the  
23          most, the perineal numbness, appeared to  
24          have occurred then, before her surgery.



1           Q.   Do you have an opinion based on  
2           reasonable medical probability as to what  
3           caused the further extrusion of disk  
4           material?

5           A.   It's not uncommon for people to  
6           have -- to -- it's not uncommon for people  
7           to worsen with no apparent cause, She  
8           certainly had a large herniated disk. She  
9           was stable, They looked at her, decided to  
10          have surgery, and then she worsened in  
11          between that time.

12          Q.   So --

13          A.   You don't -- I'm sorry. You don't  
14          have to have a specific moment in time that  
15          that happened, and --

16          Q.   So it is --

17               MS. VANCE: Wait. Please let him  
18          answer.

19          A.   But she did clearly get worse  
20          compared to all the other things in there at  
21          that time.

22          Q.   So it is your opinion that there's  
23          no apparent cause as to what produced the  
24          further extrusion of disk material?

1 MS. VANCE: Objection.

2 A. There's nothing in there that says  
3 that, you know, "I coughed and sneezed, sat  
4 down, lied down, rolled over." She just  
5 called in and said, "My perineum or my groin  
6 region is numb." That's different,  
7 Everybody recognized it as different. And  
8 so something happened. It got worse.

9 Q. Do you have an opinion as to what  
10 specifically caused her aggravation?

11 A, Don't know,

12 Q. Do you have an opinion as to whether  
13 or not her condition is permanent?

14 A. If she still has it now, it probably  
15 is.

16 Q. Can you state based on reasonable  
17 medical certainty whether future surgery  
18 would alleviate either her perineal numbness  
19 or the numbness of her left leg?

20 A. I'd have to look at her films, see  
21 her, so I guess the answer is I don't know.

22 Q. Do you agree that if surgery were  
23 performed, there would be additional risks  
24 and her condition could be worse?

1           A. Absolutely. I agree with that

2           Q. Would you agree with Dr. Likavec  
3           that the risk of performing surgery is not  
4           worth the potential benefits?

5           MS. VANCE: Objection.

6           A. That, I don't know just because I  
7           haven't seen her, but that is a reasonable  
8           observation.

9           Q. Have you received referrals from  
10          chiropractors?

11          A. Periodically

12          Q. And have chiropractors referred  
13          patients to you when those patients have had  
14          spinal conditions that required surgery?

15          A, Yes, and sometimes when they didn't  
16          require surgery.

17          Q. So you have received referrals based  
18          on a chiropractor's recognition that a  
19          patient needs spinal surgery?

20          A. Their opinion is that they need  
21          surgery, and then they ask me to look at  
22          them and see if that's what I think as well,  
23          but yes, their opinion is they may need  
24          surgery or they do need surgery, and then

1       they ask my opinion as well.

2           Q.   Do you have an opinion as to whether  
3       a chiropractor should be able to recognize  
4       when a patient requires a referral to a  
5       neurosurgeon?

6           MS. VANCE:  Objection.

7           A.   I guess the critical word is  
8       "requires" referral.  The only time that I  
9       think that someone -- absolutely it is an  
10      absolute, unquestionable need for referral  
11      is a cauda equina syndrome where there's  
12      numbness in the perineum, often numbness in  
13      the feet, and some difficulty with voiding.  
14      That is probably the only condition where  
15      it's absolutely required.  When you use the  
16      word "required," that's what I would think  
17      of for that.

18          Q.   Well, as a doctor that's treating  
19      the spine, should a chiropractor be able to  
20      recognize when a patient should be referred  
21      to a neurosurgeon for evaluation?

22          MS. VANCE:  Objection.

23          A.   Still, it's a matter of "should be  
24      referred."  Most of the chiropractors that I

1     see have treated the -- or patients that I  
2     have seen from chiropractors, they have  
3     treated the patient, the patient has not  
4     responded, and -- for some period of time,  
5     and then they ask that I take a look at them  
6     to see if surgery is an option.

7           Q.   Assuming that Jan Glasser's  
8     condition worsened while she was being  
9     treated by Dr. Abood, at any point did the  
10    standard of care require him to refer her to  
11    a neurosurgeon?

12           MS. VANCE:  Objection.

13           A.   I'm not an expert in chiropractic  
14    care, but I know that my patients, I treat  
15    them, they get worse, I do physical  
16    therapy, sometimes they get worse. I do --  
17    keep them on medications, sometimes they get  
18    worse. And so the fact that they worsen  
19    doesn't necessarily mean that they have to  
20    have surgery.

21           Q.   Do you agree that if a patient's  
22    condition is worsening while the doctor is  
23    treating that patient, that the doctor needs  
24    to reassess whether his treatment's proper?

1 MS. VANCE: Objection.

2 A. It's reasonable to reassess. If my  
3 patients are not getting better, I should at  
4 least look and see, do I want to continue on  
5 with this treatment or do I want to start on  
6 another treatment. It may be to stay the  
7 course, but we do reassess.

8 Q. Do you have an opinion as to whether  
9 at any time from August 7 through  
10 September 24, 1996, Dr. Abood should have  
11 referred Jan Glasser to a neurosurgeon or an  
12 orthopedic surgeon?

13 MS. VANCE: Objection.

14 A. I'm sorry, that -- as I remember,  
15 those are the times when he was seeing her  
16 until when?

17 Q. Correct. Assuming that Dr. Abood  
18 saw Jan Glasser and treated her October --  
19 or August 7 through September 24 of 1996, at  
20 any period during that time should he have  
21 referred her to a neurosurgeon?

22 A. I don't have his records so I can't  
23 answer that.

24 Q. If you don't have an opinion, just

1 say, "No opinion."

2 A, Okay. No opinion.

3 Q. Do you agree that Dr. Abood did not  
4 monitor Jan Glasser's neurological status  
5 during the time he was treating her?

6 MS. VANCE: Objection,

7 A. Don't know. No opinion.

8 Q. Assuming that he did not monitor her  
9 neurological status, do you think that is  
10 acceptable for a physician that is treating  
11 a patient's spine?

12 MS. VANCE: Objection

13 A. It would not be ideal care.

14 Q. Do you know whether the subsequent  
15 chiropractor Randy Reed performed any  
16 orthopedic tests on Jan Glasser?

17 A. I don't think I saw Mr. Reed's  
18 records.

19 MS. VANCE: That's because Dr. Reed  
20 doesn't have any records.

21 Q. You did not review Dr. Reed's  
22 deposition?

23 A. Don't think so,

24 Q. So you have no knowledge of what

1 Dr. Reed did, correct?

2 A. Correct.

3 Q. So you can't comment on whether he  
4 performed any tests and what the results of  
5 those tests were?

6 A. Correct.

7 Q. Do you have an opinion as to whether  
8 Jan Glasser needed surgery on September 24,  
9 1996?

10 A. Let me look at September 24.

11 Q. That's the last date Dr. Abood saw  
12 her, according to his billing records.

13 A, Okay.

14 MS. VANCE: Do you want him to read  
15 through Jan's deposition?

16 THE WITNESS: That's okay.

17 A. From the records available to me --  
18 and I'm primarily dealing with Dr. -- I  
19 believe Dr. Leb and Dr. Likavec's -- needed  
20 surgery is not -- is not exactly the word I  
21 would use. Spine surgery is rarely  
22 necessary or imperative, Even Dr. Likavec  
23 in his note talked about continuing  
24 conservative care with her as an option when



1 he saw her.

2 He rejected it because -- and she  
3 was -- did feel like she was getting worse,  
4 she did have a large herniated disk, and --  
5 well, and she was taking lots of pain  
6 medicines. So it was reasonable to do the  
7 surgery then.

8 If she would have said, "I don't  
9 hurt that bad," then he probably would have  
10 said that he wouldn't operate on her. But  
11 "needed surgery" is not -- I'd say no, she  
12 didn't need. Or was it absolutely  
13 necessary? No. The only time that it  
14 became where you'd say it was -- surgery  
15 became necessary was before her surgery when  
16 she developed the perineal numbness.

17 BY MR. RUF:

18 Q. Are you talking about when she  
19 called Dr. Likavec?

20 A. The phone call, yes.

21 Q. So was surgery indicated for Jan  
22 Glasser on September 24, 1996, the last date  
23 of treatment by Dr. Abood?

24 A. "Indicated" is just like saying that

it's necessary. It was -- was it an option  
2 at that time? Probably was an option. But  
3 was it necessary or indicated or imperative?  
4 The answer is no. The only time it became  
5 where I would say it was imperative was when  
6 she developed the perineal numbness. Was it  
7 reasonable to do it before then? Just like  
8 Dr. Likavec said, yes, it was reasonable.

9 Q. So surgery was not imperative until  
10 October 9, 1996, when Jan Glasser called  
11 Dr. Likavec by telephone?

12 A. As far as I know, that was the first  
13 time that we heard about the perineal  
14 numbness, and we became -- became concerned  
15 about this being a cauda equina syndrome.

16 Q. Do you agree that not every  
17 herniated disk necessitates surgery?

18 A. Correct. In fact, many of them  
19 don't need surgery.

20 Q. Do you agree that the determination  
21 as to whether surgical intervention is  
22 necessary is based on neurological findings?

23 A. Partially on neurological findings,  
24 partially on the patient's symptoms, and

1 partially on their pain level.

2 Q. Do you know what Jan Glasser's  
3 neurological symptoms -- I'm sorry, what  
4 were those three, again, that you used to  
5 determine whether or not to perform surgery?

6 A. It's her pain level, the neurologic  
7 findings -- now I can't remember the other  
8 one. Pain level, neurologic findings,  
9 certainly radiographic findings. I think I  
10 left that out. But you'd have to read back  
11 to me what the third one was.

12 THE NOTARY: Would you like me to go  
13 back?

14 MR. RUF: Sure.

15 (Record read back as requested, from  
16 Page 58, Line 20, through Page 59, Line 1.)

17 A. Okay. So I left out symptoms.

18 BY MR. RUF:

19 Q. You do not know Jan Glasser's pain  
20 level, neurologic findings, or her symptoms  
21 from August 7, 1996 to September 24, 1996,  
22 correct? That's the period during which  
23 Dr. Abood was treating her.

24 A. And that was before Dr. Leb saw her

1 and before --

2 Q. Correct.

3 A. Correct. What you said is correct.

4 Q. You do not know either her pain  
5 level, neurologic findings, or symptoms  
6 during that period of time, correct?

7 MS. VANCE: Objection.

8 A. I think that's correct.

9 Q. So based on that, you can't  
10 determine whether or not surgery was  
11 indicated for her during that time period,  
12 correct?

13 MS. VANCE: Objection.

14 A. If she didn't have a cauda equina  
15 syndrome during that time, then I would say  
16 that surgery was not necessary during that  
17 time.

18 Q. Is your opinion that surgery is only  
19 necessary on a disk in a patient with cauda  
20 equina syndrome?

21 A. No, my opinion is that it depends on  
22 their pain level and on the other things we  
23 mentioned. But if you want something that  
24 says this is an absolute indication that

1     this requires surgery, a -- the perineal  
2     numbness, evidence of a cauda equina  
3     syndrome, then the surgery is indicated,

4           Q.   Do you agree that permanent damage  
5     to a nerve exiting the lumbar spine can  
6     occur due to pressure from a disk?

7           A.   Yes,

8           Q.   Is it more probable than not that  
9     Jan Glasser's current condition is the  
10    result of pressure on the nerve exiting at  
11    the L4-5 level?

12          A.   Well, it's due to a herniated disk  
13    at the 4-5 level, yes.

14          Q.   Do you agree that there was enough  
15    compression of Jan Glasser's nerve exiting  
16    at the L4-5 level. to cause permanent damage  
17    to her?

18               MS. VANCE:   At what time?

19               MR. RUF:   At any time before  
20    October 14, 1996,

21          A.   By definition, you can say that if  
22    you believe it's due to the herniated disk,  
23    then there was pressure and it was due -- we  
24    know she had a herniated disk.

1 BY MR. RUF:

2 Q. Do you have an opinion based on  
3 reasonable medical probability as to the  
4 specific date that occurred?

5 MS. VANCE: The date what occurred?

6 MR. RUF: The date that there was  
7 enough --

8 THE WITNESS: Permanent.

9 MR. RUF: -- compression to cause  
10 permanent nerve damage.

11 A. The only thing I can say is that  
12 prior to the phone call, she did not have  
13 the perineal numbness. If surgery or  
14 decompression or whatever would have  
15 occurred before that time, she would  
16 probably not have had the perineal numbness.  
17 So I can't tell you when that became  
18 permanent. Did that become permanent  
19 immediately as soon as she had it? I don't  
20 know, Did it become permanent an hour after  
21 it or two hours after that? I don't know.  
22 It's a combination probably of time and of  
23 pressure.

24 BY MR. RUF:

1           Q. But based on reasonable medical  
2           probability, can you give me a specific date  
3           when the damage became permanent?

4           A. I can tell you when -- all I can do  
5           is tell you that it was after -- it was  
6           sometime after the date that she called and  
7           said, "I've got numbness in my perineum."  
8           It was after that that it became permanent.

9           Q. Can you say with reasonable medical  
10          probability that there was not permanent  
11          damage to the nerve before October 11, 1996,  
12          the date of the phone call?

13          A. It would be -- it would be a  
14          different injury. The perineal numbness  
15          clearly occurred then, and so after that,  
16          the perineal numbness sometime in there  
17          became permanent. Any numbness that you  
18          want to talk about, numbness in the leg,  
19          that could have been -- that could have been  
20          permanent before that, and I can't tell you  
21          when that occurred.

22          Q. Do symptoms from compression of a  
23          nerve in the lumbar spine always correspond  
24          with how much of the disk material has

1 extruded?

2 A. No.

3 Q. Can you have extrusion of the disk  
4 material and not have corresponding symptoms  
5 until a later time period?

6 A. You mean does the disk herniate and  
7 then cause symptoms later?

8 Q. Correct.

9 A. Without herniating further?

10 Q. Correct.

11 A. I think no,

12 Q. So it's your opinion that if her  
13 disk herniated further, there would have to  
14 be corresponding symptoms?

15 A. Not necessarily. A disk can  
16 herniate and cause no symptoms. I have  
17 people who have herniated disks that are  
18 completely asymptomatic. So you can have  
19 herniated disks that have no symptoms. And  
20 so a disk can herniate and cause no  
21 symptoms. But if you have symptoms, you --  
22 I believe you have them with the herniation  
23 of the disk. Is that -- does that make  
24 sense to you?



1 Q. Yes.

2 A. But I don't believe you can have the  
3 disk herniation and then it not change and  
4 then get a change in the exam. Now, I do  
5 believe that you can have a change in your  
6 symptoms, and your MRI scans stay exactly  
7 the same.

8 Q. Let me ask you this.

9 A. Okay.

10 Q. Could Jan Glasser -- strike that.  
11 Let me rephrase it,

12 Could the condition of Jan Glasser's  
13 spine found on October 14, 1996 have been  
14 present on September 30, 1996?

15 MS. VANCE: Could you read that  
16 back.

17 (Record read back as requested.)

18 MS. VANCE: Objection to foundation.  
19 Found radiographically, found on exam?

20 A. The last date was the surgical date?

21 Q. Correct.

22 A. I would say the answer is no. Was  
23 there a large disk there before -- there was  
24 a large disk there before on MRI scan. But

1 did something change before that surgery and  
2 the answer -- between that time and the  
3 surgery, yes. And she says it pretty  
4 clearly that something changed in there, and  
5 that's what changed and gave her her  
6 perineal numbness.

7 Q. Do you agree with Dr. Likavec's  
8 opinion that the findings shown on MRI on  
9 October 7, 1996 matched what he found at  
10 surgery on October 14, 1996?

11 A. He found a very large disk, The  
12 question is different. Can you have -- when  
13 I look at a very large disk -- and this was  
14 obviously very large, and his description is  
15 very large. Could it have been, you know, 3  
16 grams bigger than the MRI scan -- or .3  
17 milligrams bigger, I should say, than what's  
18 on the MRI scan? And he or I or no one of  
19 us would notice that, but that could be  
20 enough to cause her increasing symptoms.

21 I think what he said was true, is  
22 that it matched it. Did it match it  
23 exactly? That I don't know. And I doubt if  
24 he or I could tell that.

Q. Do you have an opinion as to the condition of Jan Glasser's lumbar spine from September of 1994 to August 1, 1996?

4 A. Can you define that a little bit for  
5 me.

6 Q. Sure. What was the condition of her  
7 herniation in L4-5?

8 MS. VANCE: What dates again?

9 MR. RUF: From September of '94 to  
10 August 1 of '96.

11 A. Not -- you mean just what we see on  
12 MRI scans?

13 Q. Correct, She had an MRI  
14 September -- July 30, 1994.

15 A. Correct.

16 Q. Do you have an opinion as to whether  
17 there was a worsening of her condition  
18 between '94 and '96?

19 MS. VANCE: Objection.

20 A. Well, in ninety -- give me another  
21 time in '96. Tell me when in '96.

22 Q. From September of '94 to August 1 of  
23 '96.

24 MS. VANCE: Objection,

1           A.    I'd have to look at the scans again.

2           Q.    There was no scan in between that  
3    time.

4           A.    Okay.  Then I don't think you can  
5    say if -- if the spine truly changed.

6           Q.    What was your understanding of her  
7    ability to function during that time period?

8           A.    Don't know.  I don't have her -- his  
9    records on that.

10          Q.    Was she able to use her back from  
11    September of '94 through August 1 of '96?

12          A.    What do you mean, "use her back"?

13          Q.    Did she have any trouble sitting  
14    during that time period?

15          A.    Don't know.

16          Q.    Did she have any trouble walking  
17    during that time period?

18          A.    Don't know.

19          Q.    Did she have any trouble dancing  
20    during that time period?

21          A.    Don't know,

22          Q.    Did she have any difficulty with any  
23    of the normal activities of daily living  
24    during that time period?

1           A.   Don't know.

2           MS. VANCE:  Let me object and  
3   interject.  Obviously he is giving these  
4   answers now, but there are references in  
5   these medical records, and we reserve the  
6   right at trial to be able to point to  
7   specific entries and records that may not  
8   be --

9           THE WITNESS:  Oh, sorry.

10          MS. VANCE:  -- at the forefront of  
11   Dr. Rea's attention right now, but there are  
12   references in that time period that we will  
13   talk about at trial.

14          A,   I'm sorry, I was under the -- I'm  
15   sorry, these dates, I'm trying to stay  
16   focused on those.

17          MR. RUF:  Well, I'm going to object  
18   to that.

19   BY MR. RUF:

20          Q.   Do you know what her ability to  
21   function with her back was between September  
22   of '94 and August 1 of '96?

23          A.   Can I stop, and I'll look through  
24   the records again?

1           Q. Well, did you take that into  
2           consideration in rendering your opinion in  
3           this case?

4           A. Yes, but I need to -- but -- yes,  
5           but I need -- if you want me to look at  
6           those and answer specifically, I'll have to  
7           go back through those dates.

8           Q. Let me ask you this way: Assuming  
9           that she did not have any difficulties with  
10          daily living and she was able to use her  
11          back, would you agree it's more probable  
12          than not that there was not a worsening of  
13          her L4-5 disk during that time period?

14          A. Let me repeat that to make sure I  
15          understand it. If she had no problems with  
16          her back during that time, is it more  
17          probable than not that she would not have a  
18          worsening of her MRI scan -- or evidence of  
19          increased herniated disks on a radiographic  
20          study? Is that the question?

21          Q. If she had minimal problems during  
22          that time period.

23                 MS. VANCE: Objection.

24          A. The answer is yes, more probable

than not, that she would not have a change.  
But she still could have a change, just as I  
talked about that people who have herniated  
disks or even worsening can have minimal  
symptoms. But if you say is it more likely  
6 than not, the answer is yes.

7 Q. Do you agree that there are no  
8 documented complaints of leg pain, leg  
9 numbness, and pelvic numbness from September  
10 of 1994 to August 1, 1996?

11 A. None that I know of.

12 Q. Do you agree that a herniated disk  
13 can lose moisture over time?

14 A. All disks lose moisture over time,  
15 and herniated disks do as well.

16 Q. Do you agree that when a disk loses  
17 moisture, the disk shrinks?

18 A. Correct.

19 Q. Do you agree that dehydration of  
20 disks is part of the natural aging process?

21 A. Correct.

22 Q. Do you agree that there could have  
23 been a shrinkage of Jan Glasser's herniation  
24 from September of '94 to August 1 of '96?

1           A. Are you saying is that a  
2           possibility?

3           Q. Yes.

4           A. Yes.

5           Q. Is it probable that given there's  
6           this aging process, there was a shrinkage of  
7           that disk?

8           A. Again, more likely than not.

9           MS. VANCE: Wait a minute. Let's  
10          check the time.

11          THE WITNESS: Okay,

12          MS. VANCE: What are the dates and  
13          what are the times again?

14          MR. RUF: September of '94 to  
15          August 1 of '96.

16          MS. VANCE: So the date of that  
17          second MRI to the time period when she comes  
18          under the care of Dr. Abood..

19          THE WITNESS: Correct.

20          MR. RUF: After she saw Ruch in '96  
21          up until she saw Dr. Abood.

22          MS. VANCE: And you're asking is it  
23          more likely than not that the --

24          BY MR. RUF:



1           Q. Is it more likely than not that she  
2       had a shrinkage of the L4-5 disk since that  
3       is part of the natural aging process?

4           A. If she were -- and you do expect  
5       that, If, however, it is shrinking, then I  
6       would expect her symptoms to get better and  
7       her not to need any care for it.

8           Q. And during that time period, she  
9       wasn't getting care for it, and assuming  
10      that she was able to function normally, that  
11      would further support a shrinkage of the  
12      disk, correct?

13           MS. VANCE: Objection. It's  
14      inconsistent with the records.

15           A. If you -- yes, you do expect it to  
16      shrink over time, yes.

17           Q. And also wouldn't a lack of  
18      treatment during that time period and an  
19      ability to function further support that  
20      there was a shrinkage of that disk?

21           A. There may have been a shrinkage of  
22      the disk, yes.

23           Q. And if there was a shrinkage of the  
24      disk, would..you agree that it's more likely

1     than not that her neurological findings  
2     would decrease?

3           A.   Not necessarily.  It's -- as I said,  
4     for example, with herniated disks, after we  
5     operate on them and take the pressure off,  
6     they may -- their reflex may stay gone even  
7     with no pressure.

8           Q.   I want to go to August 7, 1996 when  
9     Dr. Abood first started treating her,  Do  
10    you have an opinion as to whether Jan  
11    Glasser's L4-5 disk was impinging on the  
12    nerve at that point?

13          A.   I'd have to see the records and see  
14    what it said about them on that day.

15                   (Pause in proceedings.)

16          Q.   I want you to assume that on that  
17    day Jan Glasser had leg cramps, muscle  
18    spasms, and muscle spasms of the foot,  
19    according to the patient information form of  
20    Dr. Abood.

21                   MS. VANCE:  Why don't you take a  
22    look for a second before you answer the  
23    question.

24                   (Pause in proceedings.)

1 MS. VANCE: You can turn it around.

2 (Pause in proceedings.)

3 A. Okay. Go ahead. Can you ask that  
4 again, please.

5 Q. Do you have an opinion as to whether  
6 the L4-5 disk was impinging on the nerve on  
7 August 7, 1996, the first date Dr. Abood  
8 started treating her?

9 A. She has finding -- she has history  
10 here that he reports that is consistent with  
11 a disk protrusion or an aggravation of a  
12 nerve root. She has leg cramps, pain in the  
13 buttock, describes it as pain down her leg  
14 on the left, on the side of the leg, with  
15 pins and needles on the left leg on the  
16 side, also even going down into her foot.

17 So that's not -- that's a  
18 description that I look for when I'm looking  
19 for a herniated disk, so it is consistent  
20 with a herniated disk on that day.

21 Q. So would you agree it's more  
22 probable than not that the L4-5 disk  
23 herniation was impinging on the nerve  
24 exiting at that level?

1           A.   It -- it's consistent with it, so I  
2   think yes.

3           Q.   Do you have an opinion based on  
4   medical probability as to whether she had  
5   permanent nerve damage for the nerve exiting  
6   at L4-5 on that date?

7           A.   No.

8           Q.   From August 1, 1996 to September 24,  
9   1996, the time during which Dr. Abood saw  
10   her, did Jan Glasser have any abnormality of  
11   the spine other than at L4-5?

12          A.   On the basis of an MRI scan or on  
13   his plain films or --

14          Q.   On the basis of anything.

15          A.   I'd have to look and see the films  
16   during that time.

17          Q.   Do you know whether she had any  
18   abnormalities of her cervical or thoracic  
19   spine during that time period?

20          A.   Don't know.

21               MS. VANCE:  He'd have to look at the  
22   films.  That's what he said.

23          A,   Yeah, I don't have that -- I'd have  
24   to look at those.

1           Q. Well, if there weren't any films  
2 taken during that time period, other than an  
3 x-ray, would you be able to render an  
4 opinion. on that?

5           A. I could look at an x-ray and make  
6 some opinion, but the answer is no.

7           Q. Were there any symptoms on August 7,  
8 1996 that showed an abnormality of the  
9 cervical or thoracic spine?

10          A. She doesn't name any symptoms here,  
11 no.

12          Q. So would you agree it's more  
13 probable than not that she did not have an  
14 abnormality of her cervical or thoracic  
15 spine at that time?

16               MS. VANCE: Objection.

17          A. She may have had -- well, I'll say  
18 she -- she had abnormalities as defined by  
19 changes in the x-rays, such as disk  
20 degeneration and other things, but she -- it  
21 does not appear that she was complaining of  
22 those.

23          Q. But if there were abnormalities,  
24 they were not producing symptoms, correct?

1 MS. VANCE: As of that date?

2 MR. RUF: As of that date, August 7,  
3 1996.

4 A. From this, I would say the answer is  
5 no, they were not causing symptoms,  
6 BY MR. RUF:

7 Q. On August 7, 1996, did Jan Glasser  
8 have incapacitating pain from her back and  
9 left leg?

10 A. From the information here, I can't  
11 say that it's incapacitating.

12 Q. Do you know if she had  
13 incapacitating pain from her back and left  
14 leg from September 24, 1996, the last date  
15 of Dr. Abood's treatment, up until the date  
16 of surgery?

17 A. It -- she had --

18 MS. VANCE: Let me just interject.  
19 At any point, or are you saying consistently  
20 during that time period?

21 Q. I'm just asking you to answer the  
22 question to the best of your ability.

23 A. There are times in there where  
24 she -- the pain is described as severe, and

1 she was very uncomfortable. And that sounds  
2 incapacitating.

3 Q. Do you agree that from the beginning  
4 of October up until the date of surgery, the  
5 pain was so incapacitating that she spent  
6 most of her time in bed?

7 A. Just one second,

8 (Pause in proceedings.)

9 A. Yes, she -- Dr. Likavec at least  
10 made a notation that when he saw her on  
11 October 9, she had at least been at home in  
12 bed for the last week and was on steroids.

13 Q. Would you agree that that was a  
14 worsening of her condition from October 7,  
15 1996?

16 A. I'm sorry. Dr. Likavec saw her on  
17 October 9. And --

18 Q. I'm -- what date?

19 MS. VANCE: You said October 7.

20 MR. RUF: Let me reask the question

21 MS. VANCE: August 7?

22 BY MR. RUF:

23 Q. Do you agree that there was a  
24 worsening of her symptoms from August 7,

1 1996 up until the date of her surgery on  
2 October 14, 1996?

3 A. Yes.

4 Q. And do you agree that that worsening  
5 of symptoms is recorded after September 24,  
6 1996?

7 A. The notes I have say that -- from  
8 the notes from Dr. Abood on August 7,  
9 looking at those and then looking at  
10 Dr. Likavec's notes on October 9, she  
11 worsened during that time.

12 Q. I want you to assume that toward the  
13 end of Dr. Abood's treatment, Jan Glasser  
14 was in so much pain that she was not able to  
15 sit during a dinner with her friends. Would  
16 you agree that that is a worsening of her  
17 condition from August 7, 1996?

18 MS. VANCE: Objection.

19 A. She had trouble sitting in August,  
20 so I can't answer how severe that was. I  
21 can't say.

22 Q. Do you know --

23 A. Without --

24 Q. Do you know whether she had problems



1 sitting during her job in working for  
2 Dr. Abood?

3 A, That, I don't know. But she did say  
4 on August 7 that she was having trouble  
5 sitting then. The degree of that, I don't  
6 know.

7 Q. Do you know whether there was a  
8 substantial worsening of her symptoms from  
9 August 7, 1996 to September 24, 1996?

10 MS. VANCE: While under Dr. Abood's  
11 care.

12 A. I don't have -- this is the first  
13 time I've seen his records, and --

14 Q. If you don't know, tell me you don't  
15 know.

16 A. Don't know,

17 Q. So given that symptoms correspond  
18 with additional extrusion of disk material,  
19 you cannot tell me whether there was  
20 additional extrusion of disk material during  
21 that time period, correct?

22 A. If I don't have any information from  
23 that -- between the time he first saw her  
24 until the time that he quit seeing her, and

1 I have no other information, then I can't  
2 tell you.

3 Q. Do you agree that the potential  
4 causes of the additional extrusion of disk  
5 material between July 30, 1994 and  
6 October 7, 1996, when the two MRIs were  
7 taken, are, one, Dr. Abood's chiropractic  
8 manipulations, and two, the normal  
9 activities of daily living?

10 MS. VANCE: Oh, objection. Just  
11 those two things?

12 MR. RUF: Yeah.

13 BY MR. RUF:

14 Q. If you can think of any other  
15 potential causes, please tell me.

16 A. You mean causes that I know about?

17 Q. Yes.

18 A. No, not that I can think of.

19 Q. Based on the evidence you have in  
20 front of you, do you agree that the  
21 potential causes for the aggravation of the  
22 disk as shown on MRI from July of '94 to  
23 October of '96 are Dr. Abood's manipulations  
24 and the normal activities of daily living?

1 MS. VANCE: Objection.

2 A. If you say "potential causes,"  
3 the -- and you look at -- and you look at  
4 statistically, when I see patients, for  
5 example, how many of those patients have  
6 chiropractic manipulation? A few. How many  
7 of those people complain of being worse  
8 after that? Every once in a while somebody  
9 does.

10 How many people do I see, then, who  
11 are worsened by other things or with nothing  
12 or with having no inciting event? That's  
13 much greater, So can something be  
14 associated with -- can pain be associated  
15 with chiropractic manipulation? That can  
16 happen. Can it be -- is it more likely that  
17 it's associated with normal activity? The  
18 answer is yes, it's much more likely to be  
19 associated with normal activity than it is  
20 with chiropractic manipulation.

21 Q. Well --

22 MS. VANCE: Don't cut him off.

23 Q. -- let me ask this, Doctor: I asked  
24 what the potential causes were. Do you

1     agree that the potential causes are  
2     Dr. Abood's manipulation and the normal  
3     activities of daily living?

4             MS. VANCE: And he also said  
5     nothing.

6             Q. Or nothing at all.

7             A, Or at least nothing we can identify,  
8     And if you look at the number of people  
9     who -- look at the number of people who say,  
10    "My pain worsened with this," the number of  
11    people statistically is much more likely to  
12    either be nothing or lifting, bending,  
13    stooping, the activities of normal life than  
14    it is to be associated with any type of  
15    manipulation.

16            Q. If Jan Glasser's symptoms worsened  
17    during the time she saw Dr. Abood, wouldn't  
18    it make it more likely than not that his  
19    manipulations caused a further extrusion of  
20    the disk material?

21            A. Not at all because those are  
22    relatively short periods of time, and many  
23    people are continuing to do their usual  
24    activities during that time. So that

1 doesn't -- the fact that she had an increase  
2 in her symptomatology is the same as if I  
3 have a patient that I do physical therapy on  
4 or I have patients doing physical therapy.  
5 Those people get worse, too. That's a very  
6 common thing. That's the reason I end up  
7 operating on them because they get worse  
8 with the physical therapy.

9 Q. Do you agree that you can have an  
10 insult or injury to a nerve, but some  
11 symptoms may take time to appear?

12 A. That is unlikely. There are  
13 symptoms that do take longer to occur, but  
14 numbness and pain are usually not them. If  
15 it --

16 Q. Do you know --

17 A. Sorry. If it is pain, it's a  
18 different kind of pain.

19 Q. Do you know what specific activities  
20 Jan Glasser engaged in from August 7, 1996  
21 to October 14, 1996?

22 A. No.

23 Q. Are you aware of any specific  
24 activity that was likely to cause an

1       aggravation of her herniated disk during  
2       that time period?

3               MS. VANCE:   What's the time period  
4       again?

5               MR. RUF:   August 7, 1996 to  
6       October 14, 1996.

7               A.   Well, she says here in her thing to  
8       Dr. Abood in August that the things that  
9       aggravate her condition, sitting, bending --  
10      sorry! sitting, lifting, twisting, and  
11      coughing all increase her symptoms; and  
12      those are the things that increase  
13      symptomatology and can be associated with  
14      herniated disks.

15      BY MR. RUF:

16              Q.   So do you agree that according to  
17      Dr. Abood's records, a twisting of the  
18      lumbar spine aggravated her condition?

19              MS. VANCE:   Objection.

20              A.   It does say that.

21              Q.   So would you agree that any  
22      manipulation that involved a twisting of Jan  
23      Glasser's spine was contraindicated?

24              MS. VANCE:   Objection.

1           A. I'm not a chiropractor. I don't  
2           know what extent they twist them.

3           Q. I'm asking you as a medical doctor.  
4           If there was twisting of her spine, wouldn't  
5           that be contraindicated since that  
6           aggravated her condition?

7           MS. VANCE: Objection.

8           A. Don't know. Not a chiropractor.  
9           Really can't give you an opinion on that.

10          Q. Do you have any reason to dispute  
11          the fact that Jan Glasser's herniated disk  
12          was the largest disk Dr. Likavec has seen in  
13          over 20 years of neurosurgical practice?

14          A, Don't know.

15          Q. Assuming that it is the largest disk  
16          he has ever seen in over 20 years of  
17          neurosurgical practice, wouldn't you agree  
18          that it's more likely than not that trauma  
19          or force on the spine caused the largest  
20          disk he's seen in over 20 years in practice?

21          A. No. I've seen patients with  
22          enormous herniated disks that had cauda  
23          equina syndrome with numbness in the  
24          perineum. We brought them in; we operated

1 on them immediately. And they had just  
2 coughed or sneezed or bent or whatever, so I  
3 don't think that that makes any difference.  
4 It just has to do with the size of the disk.

5 (Beeper sounds.)

6 Q. Have you ever operated on a patient  
7 with a disk larger than Jan Glasser's?

8 A. I've seen some that big. It's a  
9 large disk, though. There's no question  
10 about it.

11 Q. Did the person have any residual  
12 problems after the surgery?

13 MS. VANCE: Are you talking about  
14 Jan or his patients?

15 Q. Your patients.

16 MS. VANCE: At an L4-5 disk?

17 MR. RUF: Yes -- well, any disk in  
18 the lumbar spine.

19 MS. VANCE: Objection. I don't  
20 think he can compare two separate patients  
21 without knowing a lot more.

22 A. Do patients with large herniated  
23 disks -- I can just off the top of my head  
24 just think of one, and that was about two



1     years ago, and she continued to have some  
2     numbness in her leg. She came in with an  
3     enormous herniated disk very similar to  
4     this, as I remember it. And, like I said,  
5     talking about something that happened two or  
6     three years ago, and she, I think -- I think  
7     that she had some numbness, but can you  
8     expect that? Not unusual.

9             MS. VANCE: Do you need to take that  
10    page?

11            MR. RUF: I'm almost done.

12            MS. VANCE: He looked like he was --

13            THE WITNESS: We can go ahead.

14    BY MR. RUF:

15            Q. Do you agree that Dr. Likavec is in  
16    a better position to assess the status of  
17    her herniated disk at the time of surgery  
18    than you are?

19            MS. VANCE: What do you mean by  
20    status of the disk?

21            Q. If you can answer the question,  
22    answer it, If you need --

23            A, It's just -- it's the same thing.  
24    It depends on what you say. Can he decide

1       whether this was due to this or that?

2       Probably not. But can he say it was a large  
3       disk? Absolutely. And he did.

4           Q. Since he's the one that actually did  
5       the surgery, is he in a better position to  
6       assess the degree of herniation or extrusion  
7       of the disk material on the date of the  
8       surgery than you are?

9           A. What do you mean by "degree"? Is it  
10      a large disk? Is it -- I mean, he said it  
11      was a large disk.

12          Q. How much of the material had  
13      extruded out of the disk'?

14          A. Looks like it was a big disk. Is he  
15      better -- is someone who looks at it  
16      directly -- if I do a disk, am I better able  
17      to judge that than someone who looks at the  
18      MRI scan? In many ways, no. We like to  
19      think we are, but we are probably not. But  
20      he said all the appropriate things. He says  
21      that it was a very large disk. And it was a  
22      large disk. You can look at the MRI scan  
23      and see it was a large disk.

24          Q. Since he actually did the surgery,

1     would he be in a better position to compare  
2     the findings of surgery to the MRI on  
3     October 7, 1996?

4           A.   Maybe.   Depends on what you were  
5     trying to compare.

6           Q.   Do you agree that Jan Glasser kept  
7     in contact with Dr. Likavec as far as  
8     letting him know what her symptoms were?

9           A.   Yeah, she called him before her  
10    surgery, yes.

11          Q.   And based on Dr. Likavec's note of  
12    October 9, he told her that unless she was  
13    incontinent or could not urinate, to wait  
14    until the 14th to have the surgery, correct?

15          A,   Correct,

16          Q.   Do you have an opinion as to how  
17    much Jan Glasser's condition worsened just  
18    prior to surgery?

19          A.   She became numb in her perineum.

20          Q.   Can you quantify the degree of  
21    extrusion of disk material that occurred  
22    between October 9 and October 14?

23          A.   No.   Could be a small amount, but I  
24    believe it was something.   It was just that

1 the disk was already quite large and it  
2 didn't take much.

3 Q. Do you have an opinion as to whether  
4 Dr. Likavec performed the surgery in a  
5 timely manner?

6 A. Sounded like he did. It's a matter  
7 of judgment. I would have thought real hard  
8 about operating on her on that day when she  
9 called in, but that's a judgment call.

10 Q. Although you've already testified  
11 that surgery on a disk is not an absolute  
12 necessity unless there's bowel or bladder  
13 problems, correct?

14 A. That's correct.

15 MS. VANCE: But he also testified  
16 that it was those complaints on that day  
17 that made this a surgical necessity and  
18 nothing before that date. It was the  
19 complaint --

20 MR. RUF: I object to counsel's  
21 statements.

22 MS. VANCE: I'm just making sure you  
23 remember what he said a couple hours ago  
24 about the fact that perineal numbness is the

1 event that made this a surgical necessity as  
2 of that date.

3 MR. RUF: You can explain your  
4 position at trial.

5 MS. VANCE: I'm just reminding you  
6 what has already occurred in this record.

7 BY MR. RUF:

8 Q. Did you read Dr. Likavec's  
9 deposition?

10 A. Yes.

11 Q. Is there anything that you disagree  
12 with in Dr. Likavec's deposition?

13 MS. VANCE: Objection. It's not a  
14 fair question.

15 A. Nothing I can remember specifically.

16 Q. And you did not read Dr. Dock's  
17 deposition?

18 A. No.

19 Q. Is there anything that you disagree  
20 with in the medical records?

21 MS. VANCE: Objection. Unfair  
22 question.

23 A. None that I can specifically say.

24 THE WITNESS: Let me just get this.

1 (Recess taken.)

2 Q. I have just one other question. Do  
3 you have any other opinions that we have not  
4 yet discussed?

5 A. (Indicates negatively.)

6 MS. VANCE: I'm going to object to  
7 that. Upon review of the transcript, I  
8 mean, if there are any opinions that haven't  
9 been thoroughly covered, we'll certainly  
10 advise you well before trial and give you an  
11 opportunity to redepose Dr. Rea.

12 A. None that I know of.

13 (Recess taken.)

14 BY MR. RUF:

15 Q. Do you have any opinion as to the  
16 value of the fluoroscopy that was performed  
17 and read by Dr. Gatlin?

18 A. To me, it just looks like a  
19 flexion/extension fluoroscopic exam, very  
20 standard in spine practices, looking for  
21 instability, can be done either under  
22 fluoroscopy or can be done with plain films.

23 Under fluoroscopy, which is, I  
24 believe, the way this was done, I think

1     there's not much information on what's  
2     normal as there is in Just routine  
3     flexion/extension films.

4           Q.   Are you saying that there's no value  
5     to fluoroscopy of the lumbar spine?

6           A.   I'm saying that it's not been  
7     studied enough to tell us that there is much  
8     value at all in it.

9           Q.   Have you specifically studied  
10    whether there is value to performing  
11    fluoroscopy on a lumbar spine?

12           MS. VANCE:  Objection.

13           A.   Not done any research on it.

14           Q.   Have you ever tried to assess a  
15    fluoroscopy that was performed of the lumbar  
16    spine?

17           A.   We have looked at fluoroscopy  
18    ourselves for other reasons during  
19    myelography, myelograms, and other  
20    procedures, and I've found it not to be  
21    particularly helpful as compared to routine  
22    flexion/extension films.

23           Q.   Any other opinions?

24           MS. VANCE:  He'll talk about -- I

1 mean, nothing that we haven't already  
2 covered, essentially,

3 MR. RUF: All right. All set.

4 THE NOTARY: Doctor, would you like  
5 to read or waive?

6 MS. VANCE: I would like him to read  
7 the deposition.

8 --O--

9 Thereupon, the testimony of  
10 June 23, 1999, was concluded at 6:00 p.m.

11 --O--

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1 "Attach to the deposition of  
2 GARY L. REA, M.D., Ph.D.  
3 Jan S. Glasser, et. al., vs.  
4 Noel Abood, M.D., et al.  
5 Case No. 350062

6 STATE OF OHIO:

SS:

7 COUNTY OF FRANKLIN:

8 I, GARY L. REA, M.D., Ph.D., do  
9 hereby certify that I have read the  
10 foregoing transcript of my deposition given  
11 on June 23, 1999; that together with the  
12 correction page attached hereto noting  
13 changes in form or substance, if any, it is  
14 true and correct.

15 \_\_\_\_\_  
16 I do hereby certify that the  
17 foregoing transcript of GARY L. REA, M.D.,  
18 Ph.D. was submitted for reading and signing;  
19 that after it was stated to the undersigned  
20 Notary Public that the deponent read and  
21 examined the deposition, the deponent signed  
22 the same in my presence on the \_\_\_\_\_ day of  
23 \_\_\_\_\_, 1999.

24 \_\_\_\_\_  
NOTARY PUBLIC  
My commission expires:

## 1 CERTIFICATE

2 STATE OF OHIO


SS:

3 COUNTY OF FRANKLIN :

4 I, Christine-Ann B. Marr, RDR, a  
5 Notary Public in and for the State of Ohio,  
6 duly commissioned and qualified, do hereby  
7 certify that the within-named GARY L. REA,  
8 M.D., Ph.D., was first duly sworn to testify  
9 to the truth, the whole truth, and nothing  
10 but the truth. in the cause aforesaid; that  
11 the testimony then given was reduced to  
12 stenotypy in the presence of said witness,  
13 afterwards transcribed; that the foregoing  
14 is a true and correct transcript of the  
15 testimony; and that this deposition was  
16 taken at the time and place in the foregoing  
17 caption specified,

18 I do further certify that I am not  
19 a relative, employee, or attorney of any of  
20 the parties hereto, and further that I am  
21 not a relative or employee of any attorney  
22 or counsel employed by the parties hereto or  
23 financially interested in the action.

24 In witness whereof, I have  
hereunto set my hand and affixed my seal of  
office at Columbus, Ohio, on this 25<sup>th</sup> day  
of June, 1999.

  
Christine-Ann B. Marr  
Christine-Ann B. Marr, RDR  
Notary Public, State of Ohio

My commission expires: January 21, 2003

1 June 25, 1999

2 Dr. Gary L. Rea  
3 c/o Ms. Victoria L. Vance  
4 Arter & Hadden, L.L.P.  
5 1100 Huntington Building  
6 925 Euclid Avenue  
7 Cleveland, Ohio 44115

8 Re: Jan S. Glasser, et al., vs.  
9 Noel Abood, M.D., et al.

10 Dear Dr. Rea:


11 Attached you will find the transcript of  
12 your deposition which was taken in the  
13 above-styled cause on June 23, 1999, which  
14 is being sent to you for the purpose of  
15 reading and signing.

16 Please do not mark on the transcript. Any  
17 corrections/changes you may desire to make  
18 in your testimony should be typewritten or  
19 printed on the attached errata sheet, giving  
20 the page number, line number, and desired  
21 correction/change. After you have read the  
22 transcript, sign your name where indicated  
23 at the close of the testimony before a  
24 Notary Public.

16 The Rules of Civil Procedure allow 7 days  
17 for you to read and sign your transcript.  
18 Please return the transcript, signature  
19 page, and errata sheet(s) to Professional  
20 Reporters, Inc., 172 East State Street,  
21 Columbus, Ohio 43215, within that time.

19 Your cooperation in attending to this matter  
20 promptly is appreciated.

21 Sincerely,

22   
23 Dorothy Snader  
24 Dorothy Snader

23 cc: Mr. Mark W. Ruf  
24 Ms. Victoria L. Vance

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# THE SPINE

*Fourth Edition*

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Director, Section of Spine Surgery,  
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William Beaumont Hospital,  
Royal Oak, Michigan

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University of California, San Diego;  
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UCSD Medical Center,  
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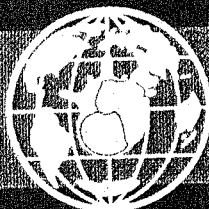
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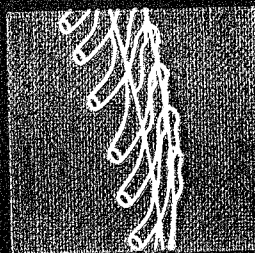
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2



VOLUME 1

# The Lumbar Spine

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