

**CLEVELAND ACADEMY OF TRIAL ATTORNEYS** Web

Last Name	KANDRENEAU
First Name	FRASER
Specialty	Neurosurgery
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1 THE COURT OF COMMON PLEAS  
2 WASHINGTON COUNTY, OHIO  
3  
4 MARILYN F. DODD, CIVIL ACTION  
5 Plaintiff, NO. 03-PT-24  
6  
7 VERSUS  
8  
9 ABDI SEYED GHODSI, M.D. and  
10 MARIETTA MEMORIAL HOSPITAL,  
11 Defendants  
12  
13 Deposition of DR. FRASER LANDRENEAU, 7777  
14 Hennessy Boulevard, Suite 10000, Baton Rouge,  
15 Louisiana 70808, taken in the offices of  
16 Pilant Court Reporting, 8146 One Calais,  
17 Suite 108, Baton Rouge, Louisiana on Tuesday,  
18 the 6th day of April, 2004 commencing at 6:05  
19 p.m.  
20  
21 APPEARANCES:  
22  
23 BECKER & MISHKIND CO., LPA  
24 (BY: JACQUELINE D. TRESL, R.N.,  
25 ESQUIRE)  
1660 West Second Street  
Suite 600  
Cleveland, Ohio 44113  
ATTORNEYS FOR THE PLAINTIFF  
COLOMBO & STUHR CO., LPA  
(BY: KAREN L. CLOUSE, ESQUIRE)  
933 High Street, Suite 212  
Worthington, Ohio 43085  
ATTORNEYS FOR ABDI SEYED GHODSI,  
M.D.  
REPORTED BY:  
BETTY GLISSMAN  
CERTIFIED COURT REPORTER

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25

1 DR. FRASER LANDRENEAU,  
2 after being first duly sworn by the  
3 above-mentioned court reporter, did testify  
4 as follows:  
5  
6 EXAMINATION BY MS. CLOUSE:  
7 Q. Dr. Landreneau, my name is Karen  
8 Clouse and I represent Dr. Ghodsi in a  
9 lawsuit that's been filed by Marilyn Dodd. I  
10 understand that you have been retained as an  
11 expert on her behalf to express opinions  
12 about the care that Dr. Ghodsi provided. So  
13 I am here tonight to find out what those  
14 opinions are. If I ask you anything at any  
15 time that isn't clear to you, please let me  
16 know and I will rephrase the question, okay?  
17 A. Okay.  
18 Q. And if you would please remember to  
19 answer verbally and try to refrain from  
20 saying things like uh-huh and hu-huh because  
21 those don't translate very well onto paper  
22 and it is sometimes hard later on to  
23 understand what it was that you were trying  
24 to convey and things like that. We will get  
25 to the exhibits in a minute. Have you had

1 your deposition taken before?  
2 A. Yes.  
3 Q. Can you give me an idea about how  
4 many occasions?  
5 A. Probably 30 times.  
6 Q. In what connection have you given a  
7 deposition?  
8 A. Mainly as a treating physician in  
9 cases of accidents or work related injuries,  
10 things like that.  
11 Q. Have you served as a retained  
12 expert in the past such as what we are doing  
13 here tonight?  
14 A. Not in a deposition.  
15 Q. Have there been other cases where  
16 you have been asked to review records as a  
17 potential expert?  
18 A. Yes.  
19 Q. On how many occasions,  
20 approximately, have you done that?  
21 A. Probably about five.  
22 (Recess taken.)  
23 BY MS. CLOUSE:  
24 Q. On any of those five other  
25 occasions where you reviewed records, have

5

1 you agreed to do anything further as an  
2 expert witness?

3 A. I have on one.

4 Q. And the case just hasn't progressed  
5 that far yet; is that right?

6 A. Right.

7 Q. In those five other cases where you  
8 have reviewed records, were the attorneys who  
9 contacted you representing the plaintiff, the  
10 defendant physician or was it some mixture of  
11 the two?

12 A. A mixture.

13 Q. Can you give me an idea of what the  
14 mixture was?

15 A. Three and two. Three in plaintiff,  
16 two defense.

17 Q. The one other case where you agreed  
18 to go further, is that a plaintiff case or a  
19 defense case?

20 A. A defense case.

21 Q. So I take it the three plaintiffs'  
22 cases, am I correct that when you looked at  
23 those cases you did not believe there was any  
24 malpractice involved in those cases?

25 A. That's right.

7

1 A. That's just a supposition.

2 Q. There are various services that  
3 assist attorneys in finding experts, are you  
4 in any way listed or affiliated with any of  
5 those services?

6 A. No.

7 Q. I take it since you told me that  
8 the one defense case where you have agreed to  
9 be further involved has not progressed  
10 further than just your review, that none of  
11 the depositions that you have given have been  
12 in a context such as we are doing here  
13 tonight where you are giving a deposition as  
14 an independently retained expert witness  
15 where all that you have done is reviewed  
16 records and have not been involved in a  
17 person's care; is that correct?

18 A. That's correct.

19 Q. And obviously then you never  
20 testified at trial as an expert witness where  
21 you have not been involved in a patient's  
22 care; is that correct?

23 A. Well once there was a case in  
24 residency of a battered woman and somehow I  
25 got called to try and establish how close to

6

1 Q. And in the one other defense case  
2 that you looked at you did not believe that  
3 you could defend the physician's care; is  
4 that right?

5 A. No. It just didn't progress and so  
6 I don't know what's happening.

7 Q. Have you reviewed any other cases  
8 for Ms. Tresi or her firm?

9 A. I have.

10 Q. How many?

11 A. Two.

12 Q. And that is two of the other three  
13 plaintiffs' cases that you mentioned?

14 A. Right.

15 Q. Do you know how it is that that she  
16 or her firm came to contact you here in Baton  
17 Rouge?

18 A. I am not altogether sure. I have a  
19 partner by the name of Dr. Flynn who does  
20 independent exams and I can only assume that  
21 he had a full plate and said, you know, see  
22 if Landreneau wants to do this.

23 Q. Do you know that Dr. Flynn has  
24 reviewed cases for her firm or is that just a  
25 supposition on your part?

8

1 death or what was her extent of injuries and  
2 so that was in the courtroom. And that was  
3 it.

4 Q. But that's the only time that you  
5 have ever testified in a courtroom?

6 A. That's right.

7 Q. Was that a patient that you had  
8 actually treated prior to her death?

9 A. That's right. She didn't die, we  
10 saved her.

11 Q. We have marked as Exhibit #2 a  
12 report that I understand that you authored;  
13 is that correct?

14 A. Right.

15 Q. Dated December 7, 2003?

16 A. Right.

17 Q. Is that the only report that you  
18 have written in this case concerning your  
19 review of the materials?

20 A. Right.

21 Q. And I take it that you wrote that  
22 report as opposed to Ms. Tresi writing it and  
23 then signing off on it; is that right?

24 A. Right.

25 Q. In that report you identify a

9

1 series of four numbered items that you have  
 2 reviewed in connection with this case. Have  
 3 you since reviewed any additional materials  
 4 concerning the case?  
 5 A. Everything that I reviewed I have  
 6 brought today. But whether or not, you know,  
 7 the depositions here, I am happy to give  
 8 those to you but, no, I don't recall anything  
 9 new.  
 10 Q. In the course of doing your review,  
 11 did you make any notes either on the records  
 12 in deposition or on some sort of legal pad?  
 13 A. Sure.  
 14 Q. Or anything else?  
 15 A. I had some outline like some, I  
 16 regret to say that it was in pink so there  
 17 was no connotation there. But for some  
 18 reason I used pink but I did write, what I am  
 19 handing to you now is a Volume 2 of expert's  
 20 copy, I don't think that -- most of that was  
 21 things that I didn't write on. But there  
 22 were different things that I circled or that  
 23 I tried to, you know, to remember and you can  
 24 see that they are here and just, you know,  
 25 stars and I remember this. Just to narrow

11

1 them.  
 2 Q. In formulating your opinions, did  
 3 you review any medical literature?  
 4 A. Not in a specific manner at all  
 5 really. I try to keep current and usually if  
 6 I am going to do a certain case, I would beef  
 7 up on that. But I think as someone who is  
 8 reviewing something, I try to kind of keep  
 9 myself as average, you know, maybe who I am  
 10 not really what I am going to be for this  
 11 case.  
 12 Q. What journals do you try to keep up  
 13 with on a regular basis?  
 14 A. The medical journal are the Journal  
 15 of Neurosurgery, Spine, Neurosurgery, Red  
 16 Journal, New England Journal of Medicine,  
 17 Epilepsy, and North American Spine Society  
 18 Bulletin, the Neurological Institute Journal,  
 19 but I am not really religious on all of them.  
 20 You know, I try to see what is mainly going  
 21 to make an impact in my practice.  
 22 Q. What text do you keep in your  
 23 office?  
 24 A. I have a Wilkinson William Cherry,  
 25 and one by Berger in neurosurgery, I have --

10

1 down things but I did write some but  
 2 unfortunately it is in pink, here you go. I  
 3 don't think that there is anything else.  
 4 Q. Aside from the notes that you made  
 5 on the records, did you make any other notes?  
 6 A. No.  
 7 Q. And I see that you did receive a  
 8 copy of the report of my expert Dr. Miely?  
 9 A. Right. That may have been a draft  
 10 or a rough draft of this letter.  
 11 Q. Just so when we read the deposition  
 12 and know what that is referring to, you are  
 13 referring to the various notes that you made  
 14 on the discharge summary?  
 15 A. It just happened to be on a  
 16 discharge summary, I felt that was a good  
 17 review.  
 18 Q. In looking at your report you  
 19 identify reviewing the x-rays from January of  
 20 2002 through May of 2003. I take it that you  
 21 did not review any of the preop studies that  
 22 had been done at the time of her initial  
 23 injuries; is that correct?  
 24 A. Just to clarify, I brought all of  
 25 the x-rays that I looked at as well, you got

12

1 my partner has a Yoman's that I reference. I  
 2 have a Greenberg, a couple of anatomy  
 3 textbooks. And then I have a really cool  
 4 Franklin Mint library of just kind of old  
 5 medical historical books that was from my  
 6 dad. I haven't read as many as I should  
 7 have. That's about it.  
 8 Q. Are the texts that you named ones  
 9 that you refer to from time-to-time if you  
 10 have a question about a particular procedure  
 11 or issue that's going on with a patient?  
 12 A. Well I have textbooks and then I  
 13 have like walking books, I have a couple of  
 14 partners that have been in the business for  
 15 25 years so I am one of eight so we kind of  
 16 bounce ideas off and the books. And I have a  
 17 library which has, I would hesitate to guess  
 18 how many textbooks are in there.  
 19 Q. Tell me a little bit about your  
 20 experience in performing vertebroplasty, how  
 21 many of them have you performed in the course  
 22 of your career?  
 23 A. Well vertebroplasty singularly,  
 24 probably 20. Now I do a cousin operation  
 25 which is kyphon, I have done several of

13

1 those.

2 **Q.** Now is kyphon something different

3 than kyphoplasty?

4 **A.** Right. Kyphoplasty, I meant the

5 same thing. I have done several of those not

6 vertebroplasty but sometime I am not able to

7 do certain techniques that are defined in

8 that procedure and I result in doing

9 vertebroplasty. And in my review of my cases

10 I think probably about 20 have been a

11 vertebroplasty.

12 **Q.** Are those 20 cases that you have

13 done since being in private practice or does

14 that include cases in residency?

15 **A.** Private practice.

16 **Q.** Is vertebroplasty something that

17 you were trained to do in residency?

18 **A.** No. We were doing it but I had not

19 done any. I guess that I was taught in it

20 but I hadn't laid my hands on it.

21 **Q.** When you got out into practice then

22 did you take some additional seminar type

23 courses in it?

24 **A.** Right, I sure did.

25 **Q.** Is that a procedure then where you

15

1 **Q.** About how many kyphoplasties have

2 you done?

3 **A.** Probably about 70. Now when you

4 that take them altogether, you know, I am

5 about 95, you know, because they are so

6 related, you know, that it is about 95.

7 **Q.** At the present time, do you still

8 do both procedures?

9 **A.** Yes.

10 **Q.** Do you favor one procedure over the

11 other at this point?

12 **A.** I do both procedures. I have

13 recommended certain cases for vertebroplasty

14 in very unique situations. For instance, my

15 anesthetic would be general and so I haven't

16 had any interest in doing an awake procedure.

17 And if someone has a lung problem, I may

18 prefer vertebroplasty to another colleague.

19 But I would do either depending on certain

20 findings at surgery.

21 **Q.** Do you wait then until the time of

22 surgery to decide which of the two procedures

23 that you are going to perform?

24 **A.** Yes.

25 **Q.** So it I take it then you consent

14

1 went through some sort of proctorship or how

2 did you go about starting to do it in

3 practice once you had gone through your

4 seminar courses?

5 **A.** I adapted current surgeries that I

6 was doing in a way to become familiar with

7 the approach and evolved into doing it. It

8 took about three months of this process.

9 **Q.** What sort of procedures would you

10 adapt to make yourself familiar with

11 vertebroplasty?

12 **A.** Fusions, percutaneous

13 instrumentation. The use of the C-arm, the

14 nuances of how do you really use a C-arm in a

15 way to see osteo product, bone. Maybe taking

16 that extra time in an average case with the

17 C-arm to visualize something for the second

18 case. I think that one of the guys that

19 taught me would always say, you know, what

20 could we learn from this case and try to make

21 it, medicine is a constant science.

22 **Q.** And you said that you also done the

23 kyphoplasty procedure and sometime do

24 kyphoplasty along with vertebroplasty?

25 **A.** Right.

16

1 the patient or discuss both of the procedures

2 with the patient and tell them your

3 intraoperative findings will dictate what you

4 do?

5 **A.** Exactly, exactly.

6 **Q.** What sort of things do you do look

7 for intraoperatively in deciding which

8 procedure is the better procedure for the

9 patient?

10 **A.** Will the balloon fill, will the

11 bone expand, that is the main question.

12 **Q.** And as I understand it, with the

13 kyphoplasty the balloon is inserted into the

14 bone?

15 **A.** Right.

16 **Q.** And expanded in order to create the

17 space?

18 **A.** Right.

19 **Q.** And then the balloon itself is

20 removed?

21 **A.** Right. It is kind of like you

22 break your arm and you try to set it and then

23 fixate it.

24 **Q.** In the 95 percent or so

25 vertebroplasty and kyphoplasty procedures

17

1 that you have performed, have you ever had a  
2 cement leak?

3 A. Yes.

4 Q. How often have you had that occur?

5 A. It is good that I am approaching  
6 100 because I can look and answer it. About  
7 seven out of those.

8 Q. Have any of those cement leaks gone  
9 into the spinal canal?

10 A. None. That is the sacred part of  
11 the procedure. You know, it is kind of like  
12 if I were doing brain surgery, you know,  
13 there are certain things that you don't want  
14 to touch. You don't want to touch the  
15 hypothalamus, you don't want to cut the  
16 spinal cord, you don't want to cut the optic  
17 nerve, it makes you want to vomit. You know,  
18 you don't want to put any type of visible  
19 thing, at least, anything that's going to be  
20 in the spinal canal.

21 Q. The cement leaks that you did have  
22 occur, where did the cement leak to?

23 A. Either anterior or laterally  
24 or cephalad and that is actually, I think  
25 probably a benefit. I mean, I am not really

19

1 that can occur on the nerve root?

2 A. Sure.

3 Q. Or the spinal canal?

4 A. Yes.

5 Q. Even without it being inside?

6 A. Yes.

7 Q. The dura is what I am asking?

8 A. Yes. And that is a -- that's a  
9 possibility. And the definition of  
10 compression from ages historically in spinal  
11 surgery is, you know, that's obviously a big  
12 thing is the problem in the spinal cord that  
13 it has a certain subset of problems. Is the  
14 problem outside of the dura; is the problem  
15 inside of the dura, those three, yes, there  
16 are classifications of pathology in those  
17 three compartments and a mixture of each.

18 Q. Have any of your cement leaks ever  
19 caused any neurologic deficit?

20 A. Never.

21 Q. The cement leaks in those seven  
22 patients that you had, did you recognize  
23 intraoperatively that the cement was leaking?

24 A. Yes.

25 Q. What steps did you take when you

18

1 sure if you can count that as an  
2 extravasation, you know, along a fracture  
3 line or anything like that. It is, but it is  
4 actually beneficiary.

5 Q. How is it beneficial?

6 A. You regain height which is the  
7 purpose of this whole deal. You see the  
8 ladies have, you know, they are shorter and  
9 they get shorter and shorter until their rib  
10 cage lands on their iliac crest.

11 Q. Is it possible to have neurologic  
12 deficits from a cement leak even without the  
13 cement going inside the dura?

14 A. Yes. Let me answer that again. Is  
15 it possible to have deficit without cement  
16 going in the dura?

17 Q. Yes.

18 A. Yes.

19 Q. How does that occur?

20 A. I don't know. I mean, I imagine it  
21 could happen several different ways but I am  
22 not really sure which one that you are  
23 talking about. But it is possible, I  
24 imagine.

25 Q. Is there some sort of compression

20

1 recognized that cement was leaking?

2 A. #1, I saw it. #1, I completely  
3 manipulate the machine to identify early on,  
4 you know, kind of this you can fool me once,  
5 shame on me; you fool me twice, shame on me.  
6 I mean, constant visualization in a dynamic  
7 process while I put the cement is ever  
8 dictating how much I am going to put in, at  
9 what pressure, and when to stop. The  
10 question that you didn't ask me is how many  
11 did I abort, I mean, I have not done -- I  
12 have left. My complications, I can tell you  
13 all of my complications in my cases. As I  
14 said, I have reviewed them and not for this  
15 case but because, you know, just as you reach  
16 into that 100 you kind of go, how many am I  
17 doing? My complications, what I tell  
18 someone when I go through an informed consent  
19 is that, you know, I had one death, I had a  
20 lady have a heart attack; and I have had  
21 about three or four or five where I just  
22 didn't do it. I said it is too risky, I  
23 stop, didn't put the cement, put them in a  
24 brace and fought another day. But my  
25 complications as I would tell someone when I

21

1 do this, is that you know that I had one  
2 lady -- because they are elderly people, I  
3 had one lady have a heart attack and she  
4 died. And then I have had about four or five  
5 times where I just stopped and just said, you  
6 know, it is too risky, I can do this a  
7 different way or we cannot do it but I am not  
8 going to put this where I am not in control  
9 of the situation.

10 Q. In the cases where you have had  
11 cement leak, what was the route or the  
12 mechanism by which the cement leaked out?

13 A. I have no idea. I just knew that  
14 it did and, you know, and kind of put the  
15 brakes on.

16 Q. I have heard different theories is  
17 the reason that I ask, porous nature of the  
18 bones and epidural vein.

19 A. Well whoever you heard it from,  
20 they need to cut that bone opened and tell  
21 you the right answer because I don't know.  
22 You can ask the pathologist but I don't know.

23 Q. When you are performing a  
24 vertebroplasty, have you had occasion where  
25 you are not happy initially with where you

22

1 have inserted the vertebroplasty needle and  
2 you feel like you need to adjust or  
3 reposition that needle?

4 A. Yes.

5 Q. How often does that occur that it  
6 just doesn't look like it is in the right  
7 position initially?

8 A. Well, you know, that fluctuates the  
9 learning curve. And the way that I was  
10 taught to do this was that you go slow, check  
11 to make sure that your approach is visualized  
12 in several different planes. And in doing  
13 that you can minimize, you know, a trajectory  
14 that is less than optimal. The main key is  
15 to be, I think, deliberate and cautious.

16 Q. You said something about visualize  
17 it in several planes.

18 A. Right. It is kind of like parking  
19 a car. Especially if you have to reverse  
20 into a slot where there is paint and, you  
21 know, when you drive somewhere and maybe not  
22 where there is cars on either side but paint  
23 on the ground. And you park in there, you  
24 are going to do this the next week and you  
25 are going to go, okay. I am going to park

23

1 this car here and you are looking here, you  
2 look this way and you are making sure that,  
3 you know, if you are not quite sure, you are  
4 going to slow down and then you may, hell,  
5 you may open the door and say, look, I am on  
6 the paint. That kind of thing. I think  
7 that, you know, my wife really has a  
8 challenge going in reverse and we have gone  
9 over this. And she will laugh about it. But  
10 if you take your time and I think reversing a  
11 car really tells you, you are not going to  
12 mess up if you just got the wheel and if you  
13 don't slam on the gas or the brake. If you  
14 don't slam on the gas, how could you mess up,  
15 okay, baby steps, baby movements. I don't  
16 know. I guess that's how to explain it.

17 Q. So you are talking about with the  
18 C-arm fluoroscopy actually having the C-arm  
19 manipulated in the AP to the lateral view?

20 A. Yes. Guidelines to do this  
21 procedure, you have to have fluoroscopic  
22 view. And you have to be confident in it.  
23 If you don't, you are to abort.

24 Q. If I understood you, though, even  
25 with taking the time and the care, there are

24

1 occasions where the placement isn't what you  
2 want it to be and you need to reposition that  
3 needle, correct?

4 A. Correct.

5 Q. And when that happens, is it  
6 sometimes a matter of just pulling the needle  
7 back partway and repositioning it?

8 A. It would depend on this, you know,  
9 theoretical deal would have to depend on, you  
10 know, different aspects of the that anatomy.  
11 But the cement delivery is at the end of the  
12 needle. That's it. It goes not out the side  
13 or out the top, it goes through that bottom  
14 of the needle. So I guess what I am trying  
15 to say is you can put that shaft through the  
16 bony channel to the bone, outside the bony  
17 channel to the bone as long as you get that,  
18 you know, as long as you can get -- if I  
19 have a gun and put the side of it. But I can  
20 put the side of this like this, you know,  
21 pointing my finger away from Ms. Tresl and  
22 shoot all that I want, I am never going to  
23 shoot her, you follow me. You have to put,  
24 you know, the working end of the gun to shoot  
25 that gun, to hurt somebody. To have a bad



25

1 problem, you have got to put that working  
2 end, that is where the bullet comes out.  
3 There are techniques to gaining acces into  
4 the vertebral body. And when you go and you  
5 are trying to do vertebroplasty and  
6 kyphoplasty, you are supposed to do at  
7 different elements and different spinal  
8 segments. Anyway I hope that helps. And yet  
9 you can change all you want but as long as  
10 you haven't destroyed something in your  
11 changing and then maybe that's not going to  
12 hold the tube anyway, you know. But it is  
13 like a gun, the working channel is what can  
14 hurt you, the end.

15 Q. If you have to pull the needle back  
16 out the first time and reposition it, I know  
17 that you are talking in your report about  
18 your opinion that Dr. Ghodsi should have left  
19 this first needle in place, is it also  
20 necessary to leave that first needle in to  
21 avoid the creation of a tract where cement  
22 can leak out?

23 A. It depends. I mean, if you are  
24 talking about, you know, was that first try  
25 through the spinal canal, I would have

27

1 or things that you are talking about. So  
2 they get the same surgery but I just kind of  
3 give the procedure through one side. And  
4 that is swell, that's how you are taught. So  
5 yes, you know, in my discussion of this, I  
6 felt like those are break points, those three  
7 that I discussed just on the needle  
8 placement.

9 Q. So if I am understanding you  
10 correctly, it is not a matter of leaving, and  
11 I believe this is on the right side of the L2  
12 vertebra, it is not a matter of leaving  
13 needle #1 in on the right side, it is trying  
14 to put a second needle in the right side of  
15 that?

16 A. Just go on the left side, yes, why  
17 not.

18 Q. From your review of Mrs. Dodd's  
19 records, did you agree that she appeared to  
20 be a candidate for vertebroplasty to treat  
21 the kyphosis and pain that she had?

22 A. Yes, ma'am.

23 Q. And you talked earlier about  
24 elderly women with osteoporosis and how the  
25 vertebral bodies continue to collapse, is

26

1 stopped the case. If you are talking, you  
2 know, if he had a decent tract but, you know,  
3 it just didn't for some reason didn't like it  
4 and it was uncomfortable and maybe wanted to  
5 put it in a different way, then if it didn't  
6 hold, I would have aborted the case. If the  
7 tract was less than ideal, you can leave  
8 everything in place the first time and go in  
9 from the opposite side and still put a bunch  
10 of cement in and have an excellent outcome.  
11 And you have kind of blocked that area where  
12 you were worried about. You know, you have  
13 got two chances to get this cement in this  
14 thing. You don't like one, stop, put it in  
15 the other side and just get that. And don't  
16 try to, you know, if you think oh, you know,  
17 I have gone out there, I have gone through in  
18 here and I am now in here, okay, just leave  
19 that one and maybe just kind of work through  
20 the one that you are comfortable with. For  
21 instance, there are times when I only go on  
22 one side. There are times when, you know, I  
23 told you that I aborted this many times but  
24 there are times when you can only safely gain  
25 access on one side meaning for visualization

28

1 that something that you believe Mrs. Dodd  
2 would have continued to have experienced  
3 without surgical treatment that her kyphosis  
4 would have continued to progress or that was  
5 something that she was perspectively facing  
6 in the Fall of 2001?

7 A. I think that in 2001, she had a  
8 risk. Does that mean that it is without a  
9 doubt that that's going to happen to her, no.  
10 I have had people walk out of the office and  
11 just say, do you know what, I don't hurt  
12 enough for it. And I discuss with them  
13 bracing which is used to be the standard of  
14 care for this and medical therapy, and I am  
15 at peace with those people.

16 Q. Are there circumstances in which a  
17 cement leak during vertebroplasty occurs  
18 without negligence on the part of the  
19 operating surgeon?

20 A. Where does it leak?

21 Q. Does that make a difference in  
22 whether or not there is negligence in the  
23 occurrence of the leak?

24 A. Yes.

25 Q. If it leaks inside the dura, can it



29

1 ever occur without negligence on the part of  
2 the operating surgeon?

3 A. Not to my knowledge. I think that  
4 you have cement in the dura, I would lose  
5 sleep, I would just be -- I would break into  
6 a cold sweat, I would freak out and I think  
7 that that is because, you know, from day one  
8 in the training, you know, it is like the  
9 holiest of holiest of all of this. I mean,  
10 there are a lot of people who both in  
11 medicine and actually in law where they had  
12 these pedicle screw cases, you may have been  
13 familiar on "60 Minutes" and what have you.  
14 Man, let me tell you, you put one screw in  
15 the dura, what do you think, you answer that.  
16 This is similar. It is unfortunate, this is  
17 such a perfect picture but it shouldn't be in  
18 the dura.

19 Q. I understand that you would lose  
20 sleep over it and feel badly for a patient if  
21 that complication were to occur, but my  
22 question is whether there are circumstances  
23 in which the reasonably prudent neurosurgeon  
24 performing the surgery and taking all of the  
25 appropriate steps and precautions that that

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1 procedure, it is called a lumbar puncture,  
2 you know. But if you are doing a  
3 vertebroplasty and it feels like you have  
4 done a lumbar puncture, you should take that  
5 to heart.

6 Q. And I think that you said also  
7 something that you think should be visible on  
8 the fluoroscopy?

9 A. Yes, ma'am. Your medial pedicle  
10 wall is toast, it is the only way that it  
11 could happen. Or you even just put it in,  
12 you didn't see the pedicle, you just put it  
13 right through the dura or a nightmare, I  
14 mean, no.

15 Q. When you say your medial pedicle  
16 wall?

17 A. Right, it is a landmark. You don't  
18 want to breach that bone. That's your no  
19 man's land, you don't go there, you don't  
20 cross it. That's how you avoid this.

21 Q. So what may have happened and  
22 obviously you don't know but the needle may  
23 have gone through the pedicle wall and  
24 breached the dura in that way?

25 A. I don't know.

30

1 reasonably prudent neurosurgeon should take  
2 in performing the surgery could nonetheless  
3 have that complication occur and have a  
4 cement leak into the dura?

5 A. Not to my knowledge. Not that I  
6 have read or have been taught or I have never  
7 seen that in a casual discussion of, you  
8 know, that is bad luck or, you know, the  
9 medical evidence was unknown that there was  
10 some connection between the CSF space and the  
11 bony space of the bone, no.

12 Q. I want to go back to something that  
13 you said a minute ago when we were talking  
14 about needle placement. You talked about  
15 repositioning the needle and said if the  
16 needle went through the dura you needed to  
17 leave that needle in place in order to plug  
18 up that channel?

19 A. Yes.

20 Q. How is it that you know that the  
21 needle has gone through the dura?

22 A. You feel it. You will see it on  
23 x-ray. You will have the CSF come up the  
24 tube. You will feel the breach. I think  
25 that in medicine it is a very common

32

1 Q. But that was the one suggestion  
2 that you were postulating there? I am just  
3 trying to make sure what you were saying.

4 A. I have no idea. But I know how to  
5 avoid it, I don't go medial, ever, nothing,  
6 the medial wall of the pedicle. Not in  
7 putting in a screw, not in putting anything  
8 through extra or transmitted through a route  
9 which is how these procedures are done. You  
10 stop before you get to the medial and it is  
11 just an AP lateral film. You see something  
12 medial, this is medial, stop before you get  
13 there, you have plenty of time to just  
14 reroute. I mean, it is a matter of taking  
15 the pen and doing this. I am showing how I  
16 am changing the angle of how the pen  
17 interfaces with the page.

18 Q. I asked you a minute ago about  
19 whether a cement leak could occur without  
20 negligence on the part of the operating  
21 surgeon and you indicated it could if the  
22 cement went into the dura. If the cement  
23 leak is not into the dura, can that occur  
24 without negligence on the part of the  
25 operating surgeon?

33

1 A. It can. However, your question can  
2 be better qualified as to where the leak  
3 occurs. I think that can there be canal  
4 leaks, can there be extra vertebral body  
5 leaks that are negligence. As I said, I had  
6 seven and they were outside away from the  
7 canal. Can those hurt something, yes, you  
8 can die from a pulmonary embolism, you can  
9 stab the artery, you can have a punctured  
10 lung, you can have a punctured intestinal  
11 viscus, all of those can happen. You know,  
12 it doesn't mean that just in the canal there  
13 is a complication. I think in this example  
14 there is cement everywhere, there was cement  
15 on the canal here, there is cement in front  
16 of the vertebral body there. There is more  
17 cement out of the bone than there is in it.  
18 I mean, that's this particular case. I mean,  
19 yes, you can have, I think, negligence if  
20 cement is unfortunately placed maybe not in  
21 the canal vertebrally and a complication  
22 results, yes, that can be a problem too. Now  
23 there are tricks to avoid all of these  
24 things, you know, stop, wait, make sure that  
25 your cement is not maybe as liquid as, you

35

1 looks, it looks unsafe to me. I think that  
2 is an excellent question, someone can ask Dr.  
3 Ghodsi, you know, tell me how thick, was it  
4 running, you tell me.  
5 Q. You indicated in your report that  
6 the tubes delivering the cement routinely  
7 hold 1.55 cc's and that there was four times  
8 that amount delivered into the canal.  
9 A. Right. I should clarify that in my  
10 practice they are delivered in 1.5 cc  
11 channels. And that is commonplace, that's  
12 how it's always been.  
13 Q. That is like a premixed syringe  
14 that you use?  
15 A. Yes, ma'am. And so whether or not  
16 in this particular instance those guidelines  
17 were followed, I don't know. But you know  
18 that there is only -- you got one cc really  
19 to put somewhere that potentially could be  
20 dangerous. You can stop then but, you know,  
21 I think that the radiology report says what,  
22 6 cc's outside of the vertebral canal. I  
23 mean, it seems like there were four or five  
24 break points. I was just reading the CT  
25 report. I can tell you when I look at it, it

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1 know, the consistency of the cement is  
2 important. You have control of these things.  
3 You are taught how to use it in a manner that  
4 oh, you see it going out, well you have only  
5 put it in a real kind of play-do consistency  
6 anyway so it is not going to go very far if  
7 you do this the right way. The fact that you  
8 get this star burst octopus type, when you  
9 get those where if you don't hit it anywhere,  
10 your cement is way too liquid and there is no  
11 control. And that is what I think that we  
12 are dealing with here. And that is a common  
13 thing, you know, when liquid is  
14 uncontrollable why does it go everywhere,  
15 well you know, it hits everything. You know,  
16 if you put peanut butter in a hole versus  
17 milk, which one is going to run further, I  
18 mean, my little kid, five years old can tell  
19 you this, you know.

20 Q. And as you look at the films that  
21 you looked at in this case, is there  
22 something that you see about the distribution  
23 of the cement that suggests to you that the  
24 consistency was --

25 A. I have no idea. I just think it

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1 looks like it is over 1 cc. But somewhere  
2 between 4 and 6 or definitely in my practice  
3 it would be -- I would have had to have  
4 removed a delivery system once, twice, three  
5 times and be looking at the x-ray continually  
6 through this process and had at any point an  
7 opportunity to say, hey, do you know what, I  
8 don't like this. I was just reading the  
9 radiologist report.

10 Q. As you look at the films, did you  
11 have any way of trying to estimate yourself?

12 A. It looked like a lot. And that is  
13 kind of Baton Rouge answer but, you know,  
14 tres beaucoup.

15 (Recess taken.)

16 BY MS. CLOUSE:

17 Q. Okay. We were talking about this 6  
18 cc's and that's based on your review of the  
19 records, that is not your actual estimate in  
20 the films?

21 A. Yes, ma'am.

22 Q. Are you aware of any medical  
23 literature concerning the amount of cement  
24 that should be injected into an individual  
25 vertebral body?

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1 A. No.  
 2 Q. Is that something that's just based  
 3 on your clinical judgment as you are working  
 4 intraoperatively?  
 5 A. You have a pressure, a volume, and  
 6 a radiographic criteria that I use, yes.  
 7 Q. Are those criteria that you can  
 8 explain or that it is just sort of a matter  
 9 of feel?  
 10 A. I can explain some of it.  
 11 Q. If you would.  
 12 A. Well, I mean, there are only a  
 13 certain amount of volume of the space that  
 14 you are trying to fill so you try to not  
 15 overdue that volume. There is a certain  
 16 pressure that you can gauge as you put this  
 17 in as to when you can retain or maybe it is  
 18 too much pressure for that element of bone.  
 19 And then finally there is certain visual  
 20 formation of what you think an ideal piece of  
 21 bone should look like in this area and you  
 22 try to make that your final radiographic  
 23 outcome.  
 24 Q. When you talk about the pressure,  
 25 is that a matter of feel as you are injecting

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1 Kyphon Inflatable Bone Tamp Technology  
 2 Course, is that a technique that you learned  
 3 at that course or is that something that you  
 4 have adapted in your own practice of using  
 5 the same tube?  
 6 A. That's, I think, the training  
 7 course to do kyphon.  
 8 Q. Just so I understand then what it  
 9 is that you do, why don't you tell me about  
 10 the pressure gauge and what you look at it  
 11 when you do it?  
 12 A. It is a balloon and at the point  
 13 where you decide that you are going to reduce  
 14 the fracture, you insert a balloon, it has a  
 15 radiopaque material in it. So you go down  
 16 the straw, put the balloon in the bone and  
 17 you take x-rays front and back, side to side.  
 18 And you place the balloon, it is not  
 19 inflated, it is guided on a wire and it has a  
 20 handle. And then you inflate looking at a  
 21 pressure and volume gauge and an x-ray. If  
 22 you are lucky, the bone expand and then you  
 23 deflate the balloon, makes your cement --  
 24 wait for the cement to be ripe and then put  
 25 it in. And you take more x-rays and you do

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1 it or is there some sort of gauge that you  
 2 use?  
 3 A. Both, both.  
 4 Q. When we talk about a gauge, is  
 5 there some maximum pressure that you don't  
 6 want to go beyond injecting?  
 7 A. Well I don't want to get too much  
 8 into kyphon versus vertebroplasty. But most  
 9 of the pressures that you can gauge that I am  
 10 aware of are in kyphon so I am not real sure  
 11 if that is going to add or subtract to the  
 12 actual quality of what this case is about.  
 13 But, I mean, if you are asking me how I do  
 14 kyphon, I will be happy to go forward.  
 15 Q. Well if it doesn't really translate  
 16 well into vertebroplasty.  
 17 A. Well I don't know. When I do  
 18 vertebroplasty, I do it through the kyphon  
 19 tube and all of that stuff. I don't  
 20 routinely find in the vertebroplasty  
 21 literature that there is a pressure gauge, I  
 22 don't know, for instance, if there is. So I  
 23 hate to say something that I am not sure  
 24 about.  
 25 Q. I noticed that on your CV, I think,

40

1 the process again until you are done  
 2 sculpting.  
 3 Q. Now you said that you use that same  
 4 tube for your vertebroplasty procedures?  
 5 A. Exactly. Say, for instance, that  
 6 the balloon did not inflate well, then I go  
 7 straight to the cement and put the cement in  
 8 and that is vertebroplasty.  
 9 Q. How does the pressure gauge help  
 10 you with the vertebroplasty if you haven't  
 11 used the balloon?  
 12 A. If the balloon does not inflate,  
 13 the pressure will be very high. Obviously it  
 14 will tell you, you are not -- this is the  
 15 pressure inside the balloon but you look on  
 16 the x-ray and it is not inflating.  
 17 Q. Does that then tell you anything  
 18 about the pressure that you are going to get  
 19 when you are injecting the cement into the  
 20 bone?  
 21 A. Sort of, yes. You still can have a  
 22 very nice vertebroplasty from it. But it is  
 23 vertebroplasty commonly done without  
 24 pressure, I think so. Without pressure  
 25 monitor, yes. It is one of the reasons why,

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1 you know, perhaps there may be another safety  
2 in using a particular monitor. And one of  
3 the reasons why I look both at vertebroplasty  
4 and kyphon and felt that I was more of a  
5 surgeon with kyphon.

6 Q. I take it, though, that you are not  
7 critical of the decision in this case to do  
8 vertebroplasty rather than kyphoplasty?

9 A. Not at all. As I said before, I  
10 have referred people to have vertebroplasty,  
11 I have done vertebroplasty.

12 Q. I don't know if you recall the  
13 questioning but Dr. Ghodsi was asked a couple  
14 of questions in his deposition about  
15 prophylactic fenestration, is that something  
16 that is at all an issue in your mind in this  
17 case that should have been done in this case?

18 A. Not really.

19 Q. He was also asked questions about  
20 the type of fluoroscopy equipment that was  
21 available to him in the OR and the fact that  
22 it was single plain fluoroscopy that had to  
23 be moved from one direction.

24 A. That is exactly like mine.

25 Although, you know, having looked at some of

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1 Q. Postoperatively then Mrs. Dodd  
2 wakes up and she has a right foot drop which,  
3 as you may recall from Dr. Ghodsi's  
4 deposition, as he walks through the  
5 differential, he thinks maybe due to a nerve  
6 having been hit with a needle. First of all,  
7 is that something that can reasonably be  
8 within the differential diagnosis after a  
9 vertebroplasty?

10 A. I think that question, I am going  
11 to answer it but I think that that's kind of  
12 leading. I mean, obviously Mrs. Dodd  
13 deserves, you know, to be stated that she has  
14 a little bit more than a foot drop, wouldn't  
15 you think? I mean, you know, maybe that --  
16 so in your answer did, A, I would call this  
17 more a cauda equina syndrome. And so is it  
18 either a misdiagnosis of a cauda equina  
19 syndrome or did she get the bowel and bladder  
20 deficits, which she has now where she has to  
21 give herself a catheter every day, twice a  
22 day, did that just happen months later or was  
23 that immediately after the surgery. I mean,  
24 so it is not just -- so to answer your  
25 question, in a hypothetical sense, can a

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1 the depositions in that discourse, I think  
2 that perhaps the familiarity with the C-arm,  
3 the C-arm tech experience, you know, maybe  
4 the -- it sounds like the team, the nurses  
5 who were involved in the OR, it sounds like  
6 the team really was kind of sounds like in an  
7 away game, you know, just it was not -- I  
8 mean, they left Ghodsi high and dry. And  
9 everybody was like, you know, I don't know  
10 nothing about nothing, you know. And so the  
11 poor fellow, you know, unfortunately he is  
12 the doctor involved in this case. And it  
13 sounded much like if I were maybe going to an  
14 away hospital that was maybe there wasn't  
15 good, you know. I can tell you having run  
16 into this in my hospital, if there is an  
17 equipment problem, you know, if I have to do  
18 the operation in a closet with a flashlight,  
19 it still has a name on it and maybe I should  
20 have sterilized the closet. Because, you  
21 know, that's your responsibility to go into  
22 the case knowing what you are using, who you  
23 are working with. You are the conductor of  
24 an orchestra and there is no dress rehearsal  
25 so you have to do it right.

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1 needle cause a nerve injury. Well all  
2 different kind of things can, that's why in  
3 my, you know, later here I state, you know,  
4 yes, it could be anything. It could be --  
5 it could have been a seizure but what I think  
6 is important is that I know that there no  
7 x-ray or CAT scan taken to try to figure out  
8 would the hell that it is. And there is a --  
9 and I think more than just, you know, in my  
10 opinion that would say that in any  
11 neurosurgical case if you have somebody are  
12 waking up with a new neurological deficit,  
13 you know, the shoe doesn't fit. You need to,  
14 I think that you have a new diagnosis. You  
15 waking up with a new diagnosis. Well okay,  
16 it could be a herniated disc, could it be an  
17 epidural hematoma, could it be a -- and none  
18 of this is going to show unless you start  
19 looking. Yes, you can write it off as  
20 whatever you want to say that you think that  
21 it is, but unless you do a diagnostic workup,  
22 I don't know. And I know that you probably  
23 got more than you wanted out of that  
24 question. But I think in all fairness, I  
25 think that it would be, I just kind of feel,

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1 you know, like we need to call a spade a  
2 spade, it is not just a foot drop.  
3 **Q.** You go on in your report to  
4 indicate that emergent decompression surgery  
5 could have been performed and an immediate  
6 CAT scan had been done and the cement seen in  
7 the spinal canal.

8 **A.** Right. Is that a question or do  
9 you want to wait?

10 **Q.** Yes, just a second. If the surgery  
11 had been done on the 25th.

12 **A.** Go ahead, I am listening.

13 **Q.** What do you envision or what is  
14 your opinion as to what that surgery should  
15 have entailed?

16 **A.** I think that there is -- I never  
17 took care of Mrs. Dodd, I'm not going to  
18 pretend like I did. But I will state that  
19 just because certain data is not available to  
20 be able to say just how bad it is, just how  
21 bad this compressive element is, does not  
22 mean that that's okay. Having stated that so  
23 that we understand that, you know, there is  
24 no investigation of the new deficit, I will  
25 move on. Once you accept that that is not

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1 some stars in this galaxy and there are some  
2 stars not in this galaxy. But what I am  
3 trying to say is, if the cement is the shape  
4 of a snowflake, which I doubt seriously that  
5 it is a perfect ball, then in that theory  
6 maybe one of these nerves on the outlier and  
7 then I would beg the question, how much does  
8 the cost for one nerve, you know, what would  
9 you put on if that nerve controlled your  
10 bladder, what would you put if that nerve  
11 right there made you able to lift your foot  
12 and then all that you had to do was just,  
13 okay, maybe get away from that, get the nerve  
14 away and then just take off that much cement,  
15 I don't know. But I do know having been in,  
16 you know, I have had plenty of problems as a  
17 surgeon and I do know that it does in the  
18 opinion of the guys who taught me how to  
19 operate, it does help the doctor/patient  
20 relationship when you go down fighting. And  
21 you say, you know what, you have got some  
22 cement in there, and it shouldn't be in there  
23 but I am going to go and look if there is  
24 something that we can sort out. Or, do you  
25 know what, you can get a new deficit, good

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1 normal, not how things are handled today,  
2 that the timing of this, it is a big question  
3 and I doubt you will find anyone who will  
4 partake in the study as to when cement mixing  
5 with CSF is firm. And is it soft, you know,  
6 we are never going to know in this case but  
7 doggone, it really just kind of makes you  
8 wonder, golly, what if it was soft, what if  
9 we would have got that out, you know. Then  
10 there is a shape that I think is critical and  
11 it can be drawn if you draw a circle and put  
12 dots in it and the dots are the nerves and  
13 they are inside the circle of we will say a  
14 cement coffin and they are never going to be  
15 free. They are like, you know, forever  
16 ensconced in the cement. Obviously nothing  
17 can be done about that. However, what if it  
18 is a snowflake and there is a nerve outside  
19 of this, there may be one or two in the  
20 snowflake but there is like a nerve that is  
21 kind of almost impinged on the nerve and what  
22 if it is soft, I don't know. But that's just  
23 my idea. I think that just like as we  
24 studied the universe, you know, we can say  
25 there is some in this galaxy but there are

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1 God, let's go see what this is all about, you  
2 know. I think that there is break points and  
3 then there are some point of potential  
4 rerouting of this case that we are not going  
5 to be able to answer it. But just because we  
6 can't answer it, #1, the timing is the cement  
7 automatically hard when it mixes with CSF,  
8 and then is it a snowflake with nerves on the  
9 periphery or is it all just one big cement  
10 coffin, I don't know. It sounds like it  
11 could have been a cement coffin, I didn't  
12 look at this. But obviously if given enough  
13 time, you know, you are going to, it is going  
14 to be modeled by the CSF, anyway.

15 **Q.** As I understand the nature of this  
16 cement, normally it hardens very quickly,  
17 correct?

18 **A.** Not so. It depends on the mixture.  
19 There are times when I wait forever for this  
20 stuff to set right. And I may have something  
21 else to go do, I may have, you know. And I  
22 am just waiting for this cement to set right.  
23 And there are times when it takes longer even  
24 dependent on what antibiotic you put in the  
25 mixture.

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1 Q. Once you have it at the consistency  
2 though where you are going to inject it, you  
3 expect that it is going to harden quickly?  
4 A. That's a great question. But it  
5 opens up, this cement went everywhere, there  
6 is all intents and purposes thinking this  
7 stuff was milk as far as I know. So I don't  
8 know that answer. Potentially two wrongs can  
9 make a right. If you put it in as milk, it  
10 went where you don't want it to, you have got  
11 time. As I was reading this, I was doing  
12 what would I have done, would I have just  
13 right then and there grabbed a scalpel and go  
14 down as soon as I saw that it was in there I  
15 don't know, I would have been driven to, you  
16 know, if it was, if I knew that it was liquid  
17 at the time but, you know, I am not going to  
18 say that that's what I would have done. But  
19 I am unsure, I think that you either -- I  
20 think that the consistency is a definite  
21 question and if it was hard then it shouldn't  
22 move much. I will put it that way, it  
23 shouldn't move much.  
24 Q. And these questions that you have  
25 asked about the consistency of the cement and

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1 to maybe do that earlier as opposed to later.  
2 And here is why, because if it is a snowflake  
3 then and I mean one nerve or two maybe, then  
4 you are going to be able to have less  
5 compression on that nerve if you do it  
6 earlier. And then it begs the question how  
7 much is one worth, how much is it, you know.  
8 If it was me and you were going to tell me if  
9 you were counseling me, yes, this cement can  
10 be in there and if I see in a case, I am  
11 going to stop. But if there is one nerve  
12 that I can help you with, I will try. I  
13 think if that type of thing and do you know  
14 what, and if you are counseling me and you  
15 say hey, you know, and it makes sense to me  
16 that time means something when you have  
17 compression, physical compression not like  
18 encasement or whatever but physical  
19 compression. So I don't know. I mean, I  
20 think my little kid would understand if I  
21 take her arm and bend it a certain way until  
22 the nerve hurts her, the longer I hold it  
23 there, the more that it is going to hurt her.  
24 And the longer the cement pushes on  
25 potentially as you said before, one that's on

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1 whether its contact with the CSF changes how  
2 quickly it would harden and whether the  
3 cement was a ball or a more of snowflake  
4 shape, these are all questions that you have  
5 in your mind, these are not things that you  
6 are able to express to a reasonable degree of  
7 medical certainty; is that correct?  
8 A. I am certain that I understand how  
9 the cement reacts when it hits objects. I am  
10 certain that the -- nothing with acrylate  
11 when placed in liquid will react differently  
12 than methylmethacrylate when placed in bone.  
13 Meaning the shape it will take will be  
14 dependent on fluid dynamics not on a housing.  
15 And I don't know much else about physical  
16 properties, I am not trying to pretend to be  
17 something that I am not. But I do have some  
18 common basic, you know, my little kid kind of  
19 knowledge of what snowflakes look like and  
20 what balls look like. And I think since the  
21 question that we are dealing with is timing  
22 of surgery, the answer is you either have to  
23 -- are you doing the surgery to try to sort  
24 out if it is a snowflake or if it is a ball,  
25 then if that's your goal it makes sense to me

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1 the periphery, and then that's worth it in my  
2 mind. Obviously when you look at that CAT  
3 scan, there are some nerves that aren't  
4 involved. There are some that are. So is it  
5 night and day or a continuum of where the  
6 cement is. There is one on the edge, would  
7 that make a difference, I don't know. But I  
8 would go down trying. And because I think  
9 that time means something, I would have  
10 counseled probably earlier. Does that make  
11 sense?

12 Q. I think so. So if I understand  
13 what you are saying, you are saying, you  
14 believe looking at your little drawing here,  
15 that the shape of the cement within the canal  
16 was likely the snowflake shape and not the  
17 ball of cement shape?

18 A. I am saying if you look at this, I  
19 am saying which leg is it that has a foot  
20 drop, both.

21 Q. It is my understanding that it is  
22 the right foot that has the foot drop?

23 A. Right, exactly. So it didn't hit  
24 the left. There is some nerves in there that  
25 aren't devastated but there are some that



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1 have dual control of the bladder, of the  
2 bowels, dual control from both sides that  
3 potentially if they are on the periphery, you  
4 can remove and maybe gain some function back.  
5 Meaning you answered, her left leg is fine,  
6 that leg is not hurt. The right one is  
7 paralyzed somewhere and not all the way, some  
8 muscles are, some muscles aren't. Somewhere  
9 in there, there are nerves that may be  
10 compressed but may not and may benefit from  
11 being decompressed. I don't know. I am just  
12 saying if you are going to think that way and  
13 you said it made sense to you because the  
14 left leg works, then why wait. It is my  
15 opinion and that's, you know, my own common  
16 sense approach to this. If it were a ball  
17 and nerve was in it, she wouldn't move  
18 anything.

19 Q. If it is a snowflake and some  
20 nerves are in it and some nerves are out of  
21 it --

22 A. Let me draw it a different way. So  
23 what I have drawn here, a bunch of lines,  
24 some going through an object, some never  
25 touching the object, some being bent by the

55

1 earlier, then who knows what I would do. I  
2 may wait, I may go, I don't know, I probably  
3 would go but at least I would -- it would be  
4 a different operation. I mean, this is in  
5 the nerve, this is in the thecal space.

6 Q. Do you have an opinion whether  
7 doing the surgery on January 27th when Dr.  
8 Ghodsi performed it, was outside that window  
9 of opportunity or whether there was just  
10 nothing that could have been done?

11 A. I don't know. I think that at that  
12 point I think that he did a couple of -- he  
13 shared other people's opinion, which I  
14 thought was good. And he went in and tried  
15 to see what he could do and I like that. I  
16 mean, I think that I commend him for, you  
17 know, just not loosing all heart and he was  
18 trying to help her at that point, I think  
19 that was good. I don't know. I mean, some  
20 of it is just some of the perception and  
21 obviously that part of this is going to be a  
22 difference of opinion. I don't think that  
23 you can fault him for going in and I think he  
24 did try to get some ideas before going in.  
25 The only thing that I would say is that if I

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1 object. I think this is a potential save,  
2 the one that's being bent. How in the hell  
3 do you fix, I don't know. But I think that I  
4 would look at it and try to assess if that  
5 was a possibility. I am not trying to dive  
6 more into this, I am just trying to say that  
7 it is, I think that it is some type of  
8 continuum, it is not a mixture. So for two  
9 reasons, I don't know if the cement is hard  
10 or soft, and I don't know if there is, you  
11 know, something to save.

12 Q. Do you know what the window of  
13 opportunity is for to do that surgery to see  
14 if there is anything to save?

15 A. No. But if I did or say there was  
16 a chance, I would do it tomorrow, you know.  
17 There are plenty people when you talk about  
18 paralysis or spinal cord injury or nerve --  
19 peripheral nerve injury, there is a lot of  
20 people that are taught to go down fighting.  
21 Now I mean, if it was obvious. If there was  
22 an advantage to waiting, if you had a CAT  
23 scan, which we never got, that showed, hey,  
24 this thing really didn't involve any nerve,  
25 it is just in the dura, as you brought out

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1 were counseling him I would say hey, do you  
2 know if I was this man's friend hey, you  
3 know, if you are thinking about going in,  
4 why? Well do you just want to prove that  
5 there is cement wrapped around nerves, well  
6 you can do that any time. But do you just  
7 want to try to make a difference and then I  
8 would say, well, you know, it makes sense to  
9 once you know that it is in the wrong spot to  
10 go in and do it as soon as you can.

11 Q. Do you believe there was any  
12 component of thermal injury from the  
13 methylmethacrylate?

14 A. I don't think so. I think that  
15 it's kind of like, you know, are you shot or  
16 pistol whipped, you are still hurt, whatever.

17 Q. In terms of the various injuries  
18 that Mrs. Dodd described in her deposition,  
19 do you have an opinion as to which of those  
20 injuries are due to cement leak or whether  
21 there are any that are not related to the  
22 cement leak?

23 A. I think that they are all related  
24 to the cement leak. I think that is really  
25 the whole crux of the whole case. And you



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1 think that, you know, shoulda, coulda, woulda  
2 present, post, during, after, all deal about  
3 what happened inside of the dura.

4 Q. You indicate in your report that if  
5 emergent surgery had been performed it is  
6 highly likely that her neurological deficits  
7 would have disappeared. Can you explain for  
8 me the basis of that opinion? The reason  
9 that I asked is based on what we just been  
10 talking about here, I am not sure.

11 A. I am trying to see where that was  
12 written.

13 Q. Down here in this paragraph, I  
14 believe right here down here. If it doesn't  
15 seem to me what we have just been discussing  
16 is that you can say that it is your belief  
17 her deficits would have disappeared.

18 A. I think that there are some. That  
19 if you read this sentence, "Had emergent  
20 surgeon been performed, it is likely that  
21 Mrs. Dodd's neurological deficits would have  
22 disappeared." I think when I wrote that I  
23 was talking about these salvageable areas.  
24 And granted there are some that are at the  
25 time of immediate postoperative care, it is

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1 the only way to have a happy ending, I really  
2 do. And when I say emergent surgery, I don't  
3 mean well you are hours, days, I am talking  
4 as soon as my x-ray tech and I look and say  
5 we have got posterior extravasation, done,  
6 boom. Because I think that it is something  
7 that our team is always looking for. That's  
8 the only way this thing could go wrong. You  
9 have got a nice old lady, all of them are,  
10 they are all complaining, they can't walk,  
11 all that they want to do is walk. And, you  
12 know, say you take away some or all of their  
13 pain, well you know what, I did a good job.  
14 This thing is right where it is, your pain is  
15 still here, I will give you some medicine,  
16 but you are not going to collapse more, it is  
17 not going to lead to a second fracture and  
18 there you go. And that's when it is a good  
19 gig, you know. All that you have to do is  
20 prevent it from going posterior. It can go a  
21 little bit to the front, to the side, just  
22 don't let it go back in the midline, that's  
23 it. But that is what happened here and that  
24 is the -- that can't happen. You have  
25 control. That's all that you have got to do

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1 unknown to me what could have been preserved.  
2 Meaning, if I do this and I see the cement  
3 going in a place that I am really freaked out  
4 about, I think that I would cut her right  
5 there, I wouldn't let her leave the room,  
6 okay. And I think that is the only time when  
7 someone could be completely well from this.  
8 This sentence does not mean that she is going  
9 to be -- that all neurologic deficits. I  
10 think that I could have easily put some in  
11 that and it would have been more kosher. And  
12 I would let the record state that I would  
13 recant and maybe put some. But regardless,  
14 as I said earlier, you tell me what's the  
15 price of one or two nerves when you are going  
16 to be crapping on yourself, I mean. I think  
17 that, you know, little can be a lot in some  
18 circumstances. But had emergent surgery been  
19 performed in that case, you know, let me put  
20 it in a different way. Say Ghodsi just put  
21 the cement and we are talking last second he  
22 saw it, what is he going to do now. I bet he  
23 opens them up right there and says let me get  
24 this milk out of there before it turns hard  
25 on me. That's what I think. I think that's

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1 is stop, anyway.

2 Q. Let me ask you about one of the  
3 things that she complains of. Memory and  
4 concentration problems, is that anyway  
5 related through that?

6 A. She's gone through a major  
7 depression. She is, you know, her disability  
8 rating is affected by this depression. I  
9 think somewhere along the way you are going  
10 to have to do a psychiatric evaluation, I  
11 would put her on suicide watch. I think that  
12 the lady is living, you know, if it was my  
13 grandmother and what does she have to live  
14 for now. Isn't she a nurse or something?

15 Q. Retired, yes.

16 A. But, I mean, my mom is a nurse, you  
17 know, she is always a nurse. You know that  
18 she knows enough to know what she has got to  
19 live for, I mean, I bet, you know, she is not  
20 on antidepressant and one of ya'll ladies  
21 need to give her one.

22 Q. Before I forget, Doctor, can we  
23 mark your diagram is Exhibit #3?

24 A. That's embarrassing, come on, it is  
25 not a good drawing.

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1 Q. They never are. All that it is, it  
2 will help us know what you are talking about.

3 A. This should be time and this should  
4 be shape.

5 Q. Let's talk for a minute about  
6 informed consent. I am sure that you have  
7 read Dr. Ghodsi's deposition and you read the  
8 depositions of Mrs. Dodd and her daughter?

9 A. Yes.

10 Q. And you are aware that they tell  
11 different stories about what was told and not  
12 told?

13 A. Yes.

14 Q. Obviously, you can't resolve that?

15 A. Can't resolve it.

16 Q. If you assumed that Mrs. Dodd was  
17 told what Ghodsi documents telling her in the  
18 history and physical.

19 A. Right. And the surgery is done on  
20 the 24th, right?

21 Q. The 24th, yes.

22 A. Yes. And this is dictated on the  
23 23rd, I think that is reasonable to think,  
24 yes, I think that he probably gave her  
25 informed consent. And it is just his word

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1 against hers, you can never really prove it,  
2 prove it. It is like you are going to be --  
3 I think sometimes you have got, you know, if  
4 you really went to counsel somebody, you can  
5 say, okay look, you were going to be shot  
6 here, a hundred of ya'll, I am going to shoot  
7 one of ya'll, that is going to have this  
8 affect that I am going to kill her. One of  
9 you is going to get shot and not move your  
10 leg anymore and you are going to crap on  
11 yourself, who wants to go see that movie. I  
12 think that it was made that blatant, I don't  
13 know. But to her mind, this nightmare, you  
14 know, that always happens when you can't  
15 resolve this, that's not the case.

16 Q. By what's documented there in an  
17 explanation and the risk?

18 A. And you saw what I wrote on it, he  
19 did that before the surgery that's when it  
20 was transcribed that was no -- the guy is an  
21 honest guy, it appears.

22 Q. You also in that same paragraph in  
23 your report where you talk about informed  
24 consent indicates, "Mrs. Dodd claims that she  
25 had been advised about treatment options,

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1 such as kyphoplasty or fusion."

2 A. Right. That's real. He told her I  
3 got this new gig, here you go. And in that  
4 year those are the other options, bracing and  
5 fusion and those are other options. So  
6 that's real.

7 Q. Kyphoplasty and vertebroplasty are,  
8 as I understand it, in the same sort of class  
9 of surgery should both of them be presented  
10 as options to the patient?

11 A. I do. I tell patients that, you  
12 know, like I told you before, I mean, it kind  
13 of has a slant, I try to explain, okay, let's  
14 say you broke your arm. And in one case we  
15 are going to make it as straight as possible,  
16 in the other case we are just going to like  
17 put it in a cast deformed. It may not hurt  
18 you, one is a little bit prettier, that's  
19 all, they both work.

20 Q. Is there any treatment at this  
21 point that would be a benefit to Mrs. Dodd?

22 A. Yes. I would do a dorsal column  
23 stimulator trial. Has that been discussed?

24 Q. Not to my knowledge.

25 A. Right.

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1 Q. What would that do?

2 A. I think that it would take away  
3 some of this neuropathic pain that she has.  
4 I would also see about really working hard on  
5 her depression. I think that needs to really  
6 be looked at when you have a lady with her  
7 experience as a nurse that she doesn't do  
8 something foolish.

9 Q. Are there any other opinions that  
10 you hold concerning deviations from the  
11 standard of care by Dr. Ghodsi that we have  
12 not discussed here this evening?

13 A. I was curious as to if her back  
14 pain would have other diagnoses, you know. A  
15 lot of times for me, I fix someone's broken  
16 back and afterwards they have other problems.  
17 It could have been, you know, another  
18 diagnosis that wasn't. And I think that that  
19 can involve, and just because this is a  
20 catastrophic problem, it doesn't mean that  
21 she's going to not have future degenerative  
22 scoliotic, hydrogenic and paralytic spine and  
23 lower extremity problems. There are going to  
24 be issues that, I mean, I think that she  
25 needs to plug herself in with a neurosurgeon

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1 and just be followed and I think that needs  
2 to be taken into consideration. But, no, I  
3 think that we have covered most of it. I  
4 mean, I don't know. I think if someone was  
5 to read this they will have ample points of  
6 what I would call a stopping point or a break  
7 point to potentially make a decision with a  
8 reasonable and well thought out planned could  
9 have maybe avoided some problems before,  
10 especially during, and then immediately  
11 after.

12 Q. Let me ask you just a couple  
13 questions about these notes that you have  
14 written here on the discharge summary.

15 A. The first are, this must be the  
16 dates that I looked at it, would that be  
17 correct; yes, that's when I looked at it.

18 Q. Okay.

19 A. I wrote 67 code I circled that, I  
20 circled the date.

21 MS. TRESL:

22 I think from my understanding  
23 is you are going to ask him some specific  
24 questions about it and not have him go  
25 through the whole thing.

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1 BY MS. CLOUSE:

2 Q. Yes. Why don't we do that, that  
3 might be easier.

4 A. Sure. I wrote #1.

5 MS. TRESL:

6 I think that she is going to  
7 ask you the questions, why don't you let her  
8 ask the questions.

9 THE WITNESS:

10 Yes, sure.

11 BY MS. CLOUSE:

12 Q. #1 is fairly self-explanatory, foot  
13 drop because she had a foot drop, correct?

14 A. Right.

15 Q. #2 C-arm x-rays, do you know what  
16 the significance was about the C-arm x-rays?

17 A. I thought that they looked pretty  
18 subpar and I felt like I can tell there was a  
19 problem.

20 Q. You are able to see cement in the  
21 canal on the C-arm films?

22 A. I think.

23 Q. And we can pull them out.

24 A. Yes, let's look at them. What I  
25 think that I am writing there is that the

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1 pedicle is not visualized for sure. Why  
2 didn't you grab. This is the surgery. And  
3 then this is inside the operation, you see  
4 that?

5 Q. Yes.

6 A. That's in the canal. All of that,  
7 all of this, I'm pointing to the cement from  
8 this intraoperative view that shows it in the  
9 canal, this too. This kind of speaks for  
10 itself.

11 Q. Actually I'm not sure it does, why  
12 don't you read that and tell me what you mean  
13 about that?

14 A. #3, there was a psychiatrist that  
15 saw this lady and she is paralyzed and he  
16 told her that she had somatization. #4 the  
17 operative note I wrote, quote, after  
18 adjustment and correct positioning. I think  
19 that the word correct in there, I would just  
20 write, I was writing a note to myself that if  
21 I am dictating maybe I shouldn't word it that  
22 way. I think that if he had it over to do, I  
23 think he would probably not word it that way.

24 Q. You have a little arrow there with  
25 the word admission, so you took that as some

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1 admission that it had been?

2 A. Well I think that there is either a  
3 problem in the way that he is dictating or he  
4 is saying that he is in the wrong space. I  
5 think that when you look at it, this is an  
6 admission of, you know, I am really, I mean,  
7 what's not correct. He says after judgment,  
8 well that means that he thought about  
9 something. And correct positioning, that  
10 means that he's in the wrong place. And  
11 usually what I would take that to mean is  
12 that, yes, these little nuances of placement  
13 that happened, as you said to me it happened  
14 to everybody, that doesn't even go in the  
15 dictation. I look at a dictation as what I  
16 am going to tell another physician when he  
17 comes and tries to do a re-operation to make  
18 this patient have a better outcome. Not to,  
19 you know, for some attorney to read or to  
20 have a nurse comment on or to tell my wife or  
21 obviously it wants to cut to the chase. If  
22 something is not in there, that doesn't mean  
23 that it didn't happen. But if someone says  
24 after adjustment and correct positioning, I  
25 wrote, I think that the guy is saying that he

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1 did something not correct. And, you know, I  
2 think that, gosh, he is an honest guy, he is  
3 telling us, I messed up and there is a bad  
4 outcome and this isn't correct. And in my  
5 definition of breach of standard of care,  
6 something has to happen out of the norm,  
7 something that the random person won't do,  
8 something that the majority, that a  
9 reasonable person wouldn't do. And then  
10 something bad has to happen and that appears  
11 in this case like seven times. And just  
12 where he says this happened is an admission,  
13 anyway. We can go on if you want.

14 Q. All right. I understand what you  
15 are saying there. #5, I think that is  
16 self-explanatory. #6, I think is as well.

17 A. #7 is what they found.

18 Q. Okay. Then I am not sure what #8  
19 is.

20 A. Then she starts having heart  
21 problems later on, February she starts having  
22 heart problems.

23 Q. What's #9?

24 A. #9 is just a leveling, a level  
25 sequence. And then hold on, let me look at

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1 then this other stuff, that's about it.

2 I don't know. I haven't -- it is  
3 not like I was going to come out and just say  
4 obviously I don't think that the guy is, but  
5 is it the way that he is dictating, I don't  
6 know. But they are not the same. And maybe  
7 if that is in evidence of how he is writing,  
8 maybe talk to the lady the same way maybe  
9 Mrs. Dodd, does she know what she is getting;  
10 does she know if she is getting a  
11 vertebroplasty or the kyphoplasty, is the  
12 consent as confusing as it is for me to read  
13 his op report, I don't know. So there is a  
14 question about it. And why would he write  
15 kyphoplasty on the surgery if he is not doing  
16 one. I don't know.

17 Q. I don't know if you saw his  
18 discussion about that in his deposition about  
19 vertebroplasty and kyphoplasty and correcting  
20 a kyphosis being a kyphoplasty.

21 A. I know what this means, this guy  
22 says that he did this procedure but didn't do  
23 it.

24 Q. Does it make sense to call it  
25 kyphoplasty if you correcting kyphosis?

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1 #10.

2 Q. Okay.

3 A. Yes, he says that he does a  
4 kyphoplasty but there is no mention of  
5 balloon. So is he doing a vertebroplasty or  
6 kyphoplasty, look at what he says that he  
7 does, the coding is even different. So I  
8 wrote, I put a question fraud. And that's  
9 just my thoughts, you asked me, I wouldn't  
10 have even brought that up. But he wrote an  
11 operative report that he does a kyphoplasty,  
12 look at that, isn't that interesting. Well  
13 he doesn't do a kyphoplasty, he does no  
14 mention of a balloon. And so he is saying  
15 that he's doing one thing and he's doing  
16 another. Now I guess that's kind unusual,  
17 don't you think. We clearly define that  
18 kyphoplasty was different than  
19 vertebroplasty. And here in his own  
20 operative report, he says he does a  
21 kyphoplasty. Well golly, man, what are you  
22 doing; at least have a plan. Did you have a  
23 balloon in the room? There is no mention of  
24 it. So I wrote no balloon even in the  
25 description, is this guy fraudulent. And

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1 A. No, Dear, you have to use a  
2 balloons. As I told you before, no. I am  
3 curious as to what he billed, what code or  
4 surgical code did he put a vertebroplasty or  
5 did he put a kyphoplasty or does he know.

6 Q. There weren't any articles or  
7 publications or done any presentations on  
8 vertebroplasty or kyphoplasty?

9 A. I have not written an article or  
10 done a presentation. I have been asked to do  
11 one for like some of the nurses. I have met  
12 at a tumor conference at our hospital to try  
13 and just relay some information to the  
14 oncologists to let them know that this is a  
15 very good means of preserving neurologic  
16 function, people have tumors. They get a  
17 tumor and it causes what's called a  
18 pathologic fracture that the tumor won't hold  
19 the vertebral body so I have tried to discuss  
20 that with some oncologists, that's it.

21 Q. Is the instrumentation study that  
22 you are doing with Medtronic/Danek?

23 A. That is a bioabsorbable  
24 stabilization. You put it in and it melts  
25 away and so the fusion stays but it goes

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1 away. But there is others, I mean, I wanted  
2 to look at a couple of other different, you  
3 know, trying to look at some other  
4 retrospective use of instrumentation. That's  
5 about it.

6 Q. The fellowship that you did in  
7 Australia, did that have a particular focus?

8 A. Skull base surgery for the main  
9 part. And I grew a little bored of that so I  
10 hooked up with an orthopedist and tried to  
11 learn an orthopedic slant on spinal surgery.  
12 I shouldn't say get bored with it, it was a  
13 poor choice of words. That I had extra time  
14 on my hands and so.

15 Q. I mean no disrespect, but have you  
16 ever been sued for malpractice?

17 A. Four times. I have had a suit  
18 where the lady lost her disability, my last  
19 clinic note says that she is 80 percent  
20 better. I had a lady's family sue me four  
21 months after I gave her one dose of a seizure  
22 medicine for like death, four months later,  
23 the half life is a couple of days. She did  
24 have some vomiting from the medicine, okay.  
25 I have been sued for one guy who had a brain

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1 Q. This case is scheduled to go to  
2 trial in June, have you been asked to come to  
3 Marietta to testify?

4 A. I'm ready. I would like to go see  
5 it in the summer, I hope that it is good.

6 MS. CLOUSE:

7 I think that we are done,  
8 Doctor.  
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1 biopsy and, you know, we got a diagnosis that  
2 was abnormal but not a particular tumor so he  
3 has another brain biopsy by somebody else and  
4 he gets a diagnosis of a tumor and he has no  
5 deficit, well he has some sensory change.  
6 And then I have been sued on one gentleman  
7 who is from the Middle East who I am not  
8 really sure what his deal is. I think that  
9 he had thought that he had pain after  
10 surgery, he thought that he had a recurrent  
11 disc herniation, CT was questionable, MRI was  
12 clean. And apparently he gets transported  
13 back to the Middle East east if he comes off  
14 workman's compensation or something. So, yes  
15 that's my biased, those are the four and I  
16 carry them with me and just like Ghodsi, you  
17 feel about them. I think that there is no  
18 question that man is probably a good guy and  
19 you carry them, it hurts. You know, it is a  
20 hard job, you fight dragons, you get burned.

21 Q. One other thing that I forgot to  
22 ask you about your expert review. What are  
23 your fees for?

24 A. Regardless win, lose or draw it is  
25 a thousand an hour.

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# REPORTER'S CERTIFICATE

1  
2  
3 I, Betty D. Glissman, Certified  
4 Court Reporter, do hereby certify that the  
5 above-named witness, after having been first  
6 duly sworn by me to testify to the truth, did  
7 testify as hereinabove set forth;  
8

9 That the testimony was reported  
10 by me in shorthand and transcribed under my  
11 personal direction and supervision, and is a  
12 true and correct transcript, to the best of  
13 my ability and understanding;  
14

15 That I am not of counsel, not  
16 related to counsel or the parties hereto, and  
17 not in any way interested in the outcome of  
18 this matter.  
19  
20  
21  
22

23 BETTY D. GLISSMAN  
24 CERTIFIED COURT REPORTER  
25 CERTIFICATE #86150

## From #1 to Bowels

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