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1	THE COURT OF COMMON PLEAS WASHINGTON COUNTY, OHIO
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5	MARILYN F. DODD,
6	Plaintiff,
7	vs. CIVIL ACTION NO. 03-PT-24
8 9	ABDI SEYED GHODSI, M.D. and MARIETTA MEMORIAL HOSPITAL,
10	Defendants.
11	
12	
13	
14	
15	The deposition of ABDI GHODSI, M.D., taken
16	upon oral examination, pursuant to notice and pursuant to the Ohio Rules of Civil Procedure, before Annette R. Lovejoy, Certified Court
17	Reporter and Notary Public in and for the State of West Virginia, at 10:07 a.m., Thursday, July
18	24, 2003, at the office of Abdi Ghodsi, M.D., St. Joseph's Hospital Physicians Office
19	Building, 600 18th Street, Suite 606, Parkersburg, West Virginia.
20	LATVERONATA' MEOR ATATUTA'
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22	JOHNNY JACKSON & ASSOCIATES, INC. 606 Virginia Street, East
23	Charleston, WV 25301
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r	ABDI GHODSI, M.D EXAM BY MS. TRESL
1	ABDI GHODSI, M.D., WITNESS, SWORN
2	EXAMINATION
3	BY MS. TRESL:
4	Q. Hi, Dr. Ghodsi. We've already met.
5	Jacqueline Tresl, attorney for Ms. Dodd. Have
6	you had your deposition taken before?
7	A. On this matter?
8	Q. No, at any time.
9	A. Yes.
10	Q. Let me just review a few basic things
11	and then we'll start with the questions. First
12	of all, when you answer your question, if it's
13	yes or no, would you say yes or no rather than
14	nodding or shaking or saying, uh-huh or huh-uh?
15	A. Okay.
16	Q. I will assume that you understand my
17	question when I ask it if you answer it. If you
18	don't understand it, will you tell me, I don't
19	understand, and ask me to repeat it or rephrase
20	it?
21	A. Okay.
22	Q. So you understand if you answer me, I
23	will assume that you understood the question?
24	A. Yes.

1 Q. State your name and address? Abdi Ghodsi, G-H-O-D-S-I. Do you want 2 Α. my home address? 3 Ο. Please. 4 5509 11th Avenue, Vienna, West Virginia, 5 Α. 26105. 6 Are you currently associated with any 7 0. other physicians? 8 I am associated with Dr. Khosrovi, who's 9 Α. a neurosurgeon here in town. We share office 10 expenses and employees. 11 Are you associated with Dr. Gold, also? 12 Ο. We share call and we share some office Ά. 13 14 expenses together. You personally aren't incorporated or 15 Q. have any organization related to --16 Α. No. 17 How long have you been involved with 18 Ο. Dr. Khosrovi? 19 20 Α. Three years. And Dr. Gold? Q. 21 22 Α. Three years. 23 Q. You said you've had your deposition taken before. Can you tell me in what 24

1	situations?
2	A. I've done a number of Workers'
3	Compensation depositions.
4	Q. So in those cases you were serving as an
5	expert?
6	A. Yes. I had seen the patient and they
7	wanted my deposition regarding my treatment of a
8	patient.
9	Q. So you were commenting as an attending
10	physician in some of them?
11	A. Yes.
12	Q. About how many depositions have you
13	given for Workers' Compensation?
14	A. Probably about four or five.
15	Q. Were they all here in Parkersburg,
16	Marietta area?
17	A. Yes.
18	Q. Were any of them related to the
19	vertebroplasty or osteoporosis or anything
20	related to this case?
21	A. No.
22	Q. Have you ever been a defendant in a case?
23	A. Yes.
24	Q. How many cases?

MS. CLOUSE: Note an objection, 1 but you can answer at this point. 2 When you say, defendant in a case, can 3 Α. 4 you --Were you named on the complaint? 5 Q. Yes, I have been. 6 Α. How many cases were you named on the 7 Q. complaint? 8 Α. Including this one, three. 9 Can you just tell me briefly about the 10 0. two previous -- do you know? 11 MS. CLOUSE: Again, note an 12 objection, but you can answer. 13 Had a malpractice suit filed last year 14 Α. regarding a lumbar spine surgical case and that 15 has been since been dismissed. I did have a 16 deposition for that case and there was one suit 17 that's pending, a lumbar spine instrumentation 18 19 case. What kind of instrumentation? 20 Q. Fusion. 21 A. Was that following vertebroplasty or 22 Q. kyphoplasty or was that independent of anything 23 else? 24

It didn't have anything to do with Α. 1 vertebroplasty. 2 What about that malpractice that was 3 Ο. dismissed, did that have anything to do with 4 vertebroplasty or kyphoplasty? 5 Α. No, a diskectomy. 6 Do you have a caption or can you tell me 7 Q. something that the party -- the plaintiff in 8 this one that's pending? 9 It's Dodd -- no, I'm sorry. It's Α. 10 Rousch. 11 Can you spell that? 12 Q. A. R-O-U-S-C-H. 13 Q. When was that filed? 14 I'm not sure. It was last year. Α. It 15 would be in Wood County. 16 Have you ever served as an expert 17 Ο. witness in a case? 18 19 А. No. 20 Q. Have you ever been contacted to serve as an expert witness? 21 Informally I have, but I have not Α. 22 reviewed any cases. 23 Did you decline when you were asked 24 Q.

1	informally?
2	A. It was a generic kind of would you
3	like to do this and I said, no.
4	Q. Your CV, I think we have it. Did you
5	give it to me? Do you want to tell me then
6	briefly about your medical background, your
7	schooling, that sort of thing?
8	A. I did my undergraduate at the University
9	of Iowa. I graduated in 1988, bachelor's in
10	chemistry. I did my medical school at
11	University of Iowa, started in 1989, completed
12	in 1994 and I did my residency at the University
13	of Iowa hospitals and clinics in neurosurgery,
14	completed in July 2000.
15	Q. Are you board certified?
16	A. No.
17	Q. Have you sat for the certification?
18	A. I have completed the written aspect of
19	it. The oral part is still pending. It needs
20	to be done within five years of completing
21	residency.
22	Q. How many times did you pass on the
23	first time with the written for the board
24	certification?

Α. Yes. 1 Have you taken the orals and not passed 2 Ο. or have you not taken the orals? 3 I have not taken them. 4 Α. Have you written anything in the medical 5 Q. literature? 6 7 Α. Yes. Q. Can you tell me about that? 8 I think it may be best if you look 9 Α. through them. There's a bibliography on the 10 11 second page. MS. TRESL: If I can just have 12 13 a minute. MS. CLOUSE: Off the record for 14 15 a second. (Break.) 16 BY MS. TRESL: 17 This CV is current as of when? Is this 18 0. current as of today? Has anything changed on 19 this CV? 20 No, it's current. 21 A. I can assume then that you are still 22 0. currently a member of all these societies on 23 24 page 2, neurosurgeons, gene therapy?

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1	A. I'm not an active member of the American
2	Society of Gene Therapy or the American Chemical
3	Society or the Society of Neuroscience.
4	Q. You are currently ACLS certified, BLS
5	certified?
6	A. Yes.
7	Q. I believe the answer to Interrogatory
8	already answered this, but let me ask it for the
9	record. You have never had your license revoked
10	or privileges revoked?
11	A. No.
12	Q. And I'm sure the answer is no, but have
13	you ever been treated for drug or alcohol abuse?
14	A. No.
15	Q. Do you subscribe to any journals?
16	A. The Journal Neurosurgery and the
17	Neurological Surgeon Journal.
18	Q. And do you find articles in there
19	relative to the vertebroplasty and kyphoplasty?
20	A. Yes.
21	Q. Can you is there one that sticks out
22	in your mind or several that stick out in your
23	mind as having been very helpful in the past or
24	that you continue to reference today that I

1	could look to?
2	MS. CLOUSE: Objection. If you
3	can think of any, you can answer.
4	A. There's one, but I can't give you the
5	reference that I just recall off the top of
6	my head. It's the only one I really recall.
7	Q. What do you recall about it?
8	A. It was out of South Korea and they
9	reviewed their cases and talked about their
10	successes and problems.
11	Q. Did you review that article for today's
12	deposition?
13	A. No, I haven't.
14	Q. Do you own any text books?
15	A. Yes.
16	Q. Do you know the titles of those?
17	A. Yes.
18	Q. May you tell them to me, please?
19	A. I think I can provide you a list of
20	them. They are really too numerous for me to
21	even remember off the top of my head but if you
22	like, I can provide a list to you.
23	Q. Is there one or two that you find
24	especially reliable that you turn to for

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1	neurosurgical questions?
2	A. I use surgical text from Schmidek Sweet
3	frequently. There is a spine book that I use
4	with Dr. Menezes as the editor with
5	Dr. Sonntag. There's a handbook from Greenberg
6	that I use frequently. There is an operative
7	atlas and description by Kemp, K-E-M-P, that I
8	use once in a while. Those are the main things.
9	Q. Do you consider those reliable text
10	count on the information you read in them?
11	MS. CLOUSE: Objection. You
12	can answer.
13	A. I certainly think that some of the stuff
14	in there is valid. I certainly don't trust
15	everything it says. A lot of what you find in
16	text books is people's opinions and anecdotes,
17	but it certainly gives you things to think about
18	and compare.
19	Q. What about teaching? Have you done any
20	teaching about osteoporosis, fracture of the
21	vertebra, kyphoplasty?
22	A. I haven't done any teaching on that,
23	no. You are talking about in a formal
24	educational

Even informally I suppose if you have 1 Ο. 2 residents assigned to you or someone shadowing 3 or someone you are mentoring. I suppose in any context really. 4 5 Α. Patients certainly I would be teaching, but other than that, nothing that sticks out in 6 my mind in a formal session or even in an 7 informal session. 8 Is there anything that you can point me 9 Ο. to that you relied -- and this is going back a 10 ways -- to your care and treatment for Ms. Dodd, 11 an article or reference or text book that you 12 referenced specifically in her care? 13 A. No. 14 You brought with you today the medical 15 Ο. records; is that correct? 16 Yes, from Marietta Memorial Hospital. 17 Α. In that folder you have? 18 Q. This is my clinical chart. 19 A. Is that all the office records of Q. 20 Ms. Dodd, that hopefully I have? 21 Α. Yes. 22 Is there anything else in there other 23 Ο. than medical records? 24

1 Α. No. Any notes that you've taken to prepare 2 **O**. for today? 3 No. 4 A. 5 What have you reviewed for today's Q. deposition? I assume it's in front of you. 6 A I reviewed the chart and some of these 7 records. 8 Have you reviewed anything else? Q. 9 Α. I've reviewed Greenberg. 10 That would be the text book? 11 Q. Α. Yes. 12 13 What part of Greenberg did you review? Q. The vertebroplasty section. That's all 14 Α. I reviewed really. 15 Did you look at any of her imaging 16 Ο. studies or MRI or CAT's, any of the films? 17 Not recently. 18 Α. When is the last time you reviewed them, 19 Q. more or less? 20 I think I briefly looked at one of the 21 Α. images about a week ago. 22 Q. Which of those did you look at about a 23 24 week ago?

1 Α. I think it was the CT scan after the operation. 2 The 25th? 3 Q. 4 Α. Let me check the date, yes, the 25th. Why did you review that image particular 5 Ο. and none of the others? 6 7 Α. I was reviewing with counsel. You did not review any of the other 8 **Q**. images then, just the one on the 25th? 9 10 Α. No. Did you review any of the images since 11 Q. 12 the time you treated Ms. Dodd, which I believe you said is April 24 up until a week ago? In 13 other words, when you received the complaint, 14 15 when you first understood that Ms. Dodd was having continued troubles, did you review 16 anything between then and last week? 17 18 Α. Let me understand, from the time that the suit was filed until today? 19 From April 24, which is the last time 20 Ο. you saw her because I assume --21 From April 24? I certainly reviewed 22 Α. things back on April 24, but since then I have 23 not reviewed the images except one week ago when 24

r	ABDI GHODSI, M.D EXAM BY MS. TRESL
1	I briefly looked at the CAT scan.
2	Q. Did you discuss Ms. Dodd and the lawsuit
3	or the particulars of her care and treatment
4	with anyone other than your counsel since April
5	24, 2002?
6	A. I cannot remember that. I can tell you
7	that since the lawsuit was filed I haven't
8	discussed it with anybody.
9	Q. I want to spend a lot of time over the
10	records because they are very easy to follow
11	here. Let's start with your office record of
12	September 19, 2001. On page 2, the bottom
13	paragraph it has the lumbar spine MRI as well as
14	plain x-rays, and I won't read the rest of it to
15	you because you can read it there. First of
16	all, when was that lumbar spine MRI taken and
17	who took it?
18	A. The lumbar spine MRI was done on
19	December 27, 2000, in Marietta Memorial
20	Hospital.
21	Q. December 27, 2000, at Marietta
22	Memorial. Is that what you said?
23	A. Yes.
24	Q. So at the time you were writing your

)

1	note, you were this review of the lumbar
2	spine MRI was nine months old; correct?
3	A. Yes.
4	Q. Would you have been able to see on that
5	MRI that was nine months old any anatomical
6	defects that might have made Ms. Dodd prone to
7	leakage of cement?
8	A. No.
9	Q. Did you review that MRI with an
10	interventional radiologist?
11	A. No.
12	Q. Could pathological changes have been
13	going on that you would not have necessarily
14	seen on MRI?
15	A. What do you mean by pathological?
16	Q. Cordical defects, weaknesses that would
17	allow the cement to leak out?
18	A. Are you speaking generally?
19	Q. Yes.
20	A. About an MRI?
21	Q. Yes.
22	A. Yes, I think you can see them sometimes.
23	Q. And sometimes you cannot?
24	A. Yes.

1	Q. Is that reliable to rely on an MRI that
2	is so old before you make a decision to do a
З	vertebroplasty?
4	A. Sure. I think you have to go with the
5	exam, too. If there's changes on the exam that
6	doesn't make sense, you may need to get more
7	recent imaging.
8	Q. So tell me about your exam that led you
9	to believe you didn't need to get more recent
10	imaging?
11	A. She did not have any deficits in her
12	legs, any findings of neurological deficit
13	referable to a nerve root or to an impression of
14	the spinal cord.
15	Q. So therefore, a fresh MRI would not have
16	probably shown you anything new?
17	A. I don't think that necessarily follows,
18	but it could have shown something new, but I
19	have to go by the patient's symptoms and
20	findings on exam, whether I need to order a new
21	study or not.
22	Q. And you felt that you didn't need to
23	order a new study?
24	A. No, I didn't.

ABDI GHODSI, M.D EXAM BY MS. TRES	ABDI	GHODSI,	M.D.	-	EXAM	ВҮ	MS.	TRESI
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	ABDI GRODSI, M.D EAAM DI MS. IKHOH
1	Q. Routinely how often do you order newer
2	studies for patients? Is it a very rare thing
З	that you feel you need to order new imaging
4	studies?
5	MS. CLOUSE: Objection.
6	A. I think if the quality of the imaging is
7	poor I order new studies. If the patient's
8	symptoms have changed since the previous
9	imaging, I order new study. If I find something
10	on the exam that doesn't correspond to that
11	imaging, then I will order new imaging.
12	Q. So we can say then that Ms. Dodd's
13	symptoms were compatible with her MRI from
14	December 22, 2000; correct?
15	A. I cannot answer that when you say
16	compatible.
17	Q. Consistent with?
18	A. Can you rephrase the question?
19	Q. Sure. You said that as long as the
20	symptoms you were seeing did not contradict,
21	let's say, the MRI, the older study, you didn't
22	feel that you needed to order a newer study;
23	correct?
24	A. Yes.

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1	Q. So therefore, can we say that the
2	symptoms that Ms. Dodd was having were
3	compatible with the MRI in December 22, 2000,
4	which is why you didn't need to or feel the need
5	to order a newer study?
6	A. I certainly thought there were some
7	findings on the MRI that could explain her
8	symptoms.
9	Q. I'm assuming that this is a typo, but
10	while we're on it, the MRI from the 26th,
11	comparison is 12/27/01. I'm assuming that
12	that's a typo, that there is no MRI of 12/27/01?
13	A. It's supposed to probably say 2000, I
14	would assume.
15	Q. So there was not a study done on
16	12/27/01, that we don't have a record of?
17	MS. CLOUSE: To your knowledge
18	anyway.
19	A. I have no knowledge of that. I don't
20	think there was. If so, I would expect to have
21	seen it if there was.
22	Q. Now, this is if I can turn your
23	attention to the operative record, the first
24	surgery on the 24th.

A. Okay.

1

22

The operative record says, kyphoplasty 2 <u>Q</u>. and many times through your earlier notes you 3 4 write, kyphoplasty, yet it appears that she had a vertebroplasty. 5

I think it depends on your definition of 6 Α. 7 kyphoplasty. I think by definition now, she had a vertebroplasty because now a kyphoplasty tends 8 to refer to people putting balloons in the bone 9 and then putting the cement in through the 10 balloons, but when a patient has a kyphosis in 11 their spine and you are doing something to 12 either repair that kyphosis, that could be a 13 kyphoplasty. A balloon by itself when you put 14 it in the bone, that's one type of kyphoplasty, 15 but you can go in and do a big operation to 16 repair a kyphotic and call that a kyphoplasty 17 also. By doing a fusion possibly, that could be 18 a kyphoplasty. I think -- and I should 19 technically have said vertebroplasty. 20 Because you did not do a fusion in this 21 Ο. first surgery; correct?

I did not, but by putting cement into 23 Α. the bone -- if you are making the bone stronger, 24

ABDI GHODSI, M.D EXAM BY MS. TRES	ABDI	GHODSI,	M.D.		EXAM	BY	MS.	TRESL
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1	you may be preventing further kyphosis later and
2	I think maybe that's what my thinking was when I
3	dictated the kyphoplasty, but technically it is
4	a vertebroplasty.
5	Q. While we are on the technicalities, this
6	was a transpedicular approach, yes?
7	A. Yes.
8	Q. Tell me how many vertebroplasties and
9	let's just lump in even if you called them
10	kyphoplasties previous to this let's just say
11	we're referring to vertebroplasties, not the
12	tamping. How many had you done prior to January
13	24, 2002?
14	A. I would say approximately 10 to 15.
15	Q. Prior to that what had you been doing
16	for patients like Ms. Dodd with those
17	presentations?
18	A. If I thought the pain was coming from
19	that site, I would we could do a fusion.
20	Q. Why is it I'm assuming you felt
21	vertebroplasty is will you tell me why do
22	vertebroplasty rather than fusion?
23	A. I think fusion is an extensive
24	procedure. It requires general anesthesia. As
	3

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1	with any surgical procedure, sometimes it
2	doesn't work and there are some complications
3	and risks. I think the vertebroplasty is done
4	under a local anesthetic and that reduces the
5	risk to the patient.
6	Q. So is that really the only benefit to
7	doing a vertebroplasty, that it's done under
8	local as opposed to general?
9	A. It's not as expensive of a procedure.
10	Q. In what way?
11	A. It's shorter duration. The patient does
12	not have to be in the operating room as long.
13	Q. How about invasive? How does it compare
14	to fusion with evasiveness?
15	A. It's less invasive.
16	Q. In what way?
17	A. You don't have to make an incision.
18	It's a percutaneous technique.
19	Q. How did you learn to do the
20	vertebroplasty? Who trained you?
21	A. I trained at the University of Iowa.
22	Q. So they were doing it when you were at
23	the University of Iowa?
24	A. Yes.

Q. Tell me about that training for
 vertebroplasties.

What specifically do you want to know? 3 A. Q. Did you -- was it like a three-month 4 period where any vertebroplasties that were 5 scheduled, they would call you in to do it? Did 6 7 you oversee 10, do 10, sort of how did it work because I'm assuming there was a training 8 9 period?

A. You were assigned to certain staff during your residency and if that staff had a case on and I was the resident, then I would assist him with that case and if he put on a kyphoplasty or vertebroplasty, I would do that case with the staff.

Q. During that time were you actually doing them before you were finished or were you just assisting him and he was doing them?

A. In residency you are always an assistant
technically even though you are listed as -- you
dictate and stuff, you are basically the staff
is responsible for the patient in residency
assistant.

24

Q. Did you ever place the needles, let's

,	,
1	say, while you were a resident?
2	A. Yes.
3	Q. And the 10 to 15 vertebroplasties you
4	did previous to Ms. Dodd, was that done in
5	residency or on your own here?
6	A. I think about half of them were in
7	residency.
8	Q. So you did perhaps five to seven-
9	and-a-half since residency, on your own?
10	A. Prior to Ms. Dodd's case, yes.
11	Q. What years were you doing those five to
12	seven-and-a-half on your own?
13	A. From July 2000, when I came here until
14	today.
15	Q. Do you consider the vertebroplasty has a
16	high level of risk?
17	A. I think the risks are low.
18	Q. How about kyphoplasty, the tamping
19	kyphoplasty?
20	A. Are you talking about the balloon
21	technique?
22	Q. Correct.
23	A. I haven't done those.
24	Q. So you don't do kyphoplasty?

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I haven't done one as of yet. 1 Α. Did you in your residency? 2 Q. I don't recall ever doing one in 3 Α. 4 residency. Was Ms. Dodd a candidate for kyphoplasty 5 **Q**. as well as vertebroplasty? 6 I have not looked at the literature 7 Α. really well comparing kyphoplasty and 8 vertebroplasty but just from my reading of 9 journals and stuff, it appears that she would 10 have been a candidate for kyphoplasty also. 11 Do you know if there's a higher or lower 12 **O**. risk of cement leakage with kyphoplasty? 13 I think the people who do kyphoplasty 14 Α. 15 seem to think that it is a lower risk, but I don't know if anybody has shown that in a good 16 study. I certainly haven't heard of a good 17 study that shows that. 18 Jumping ahead just a little bit, I'm 19 Q . assuming that Dr. Gold also does vertebroplasty 20 since he assisted you in the second surgery? 21 That had nothing to do with assisting me 22 Α. on the second surgery, but he does do 23 vertebroplasty. 24

	ABDI GHUDSI, M.D EXAM BI MS. TRESL
1	Q. Do you know if he does kyphoplasty?
2	A. I don't think he does.
3	Q. I believe you answered this in your
4	interrogatories but just to go over it, was
5	there anything that you believe that Ms. Dodd
6	did or didn't do that attributed to the outcome
7	of her vertebroplasty?
8	A. Are you talking about what outcome
9	are you talking about?
10	Q. The fact that the complications that
11	she experienced as a result of the
12	vertebroplasty?
13	A. I don't think she did anything to effect
14	the complications, no.
15	Q. In your September 19 note and your
16	December maybe December 19 note, you talk
17	about your discussions with Ms. Dodd in relation
18	to her treatment options, vertebroplasty. Can
19	you recall those conversations that you had with
20	her apart from your office records?
21	A. I can recall some of it, yes.
22	Q. Can you share those with me, maybe
23	starting from September. Am I correct that you
24	saw her in September and December 19 and then

-	
1	January 23, 24? You did not see her between
2	September 19 and December 19?
3	A. No, I did not.
4	Q. Tell me what you remember about those
5	conversations, please.
6	MS. CLOUSE: Do you want him to
7	start with September and sort of work
8	his way through the
9	MS. TRESL: If he could. If he
10	remembers the September 19 visit.
11	A. My recall has a lot to do with the notes
12	that's here. I think after I had reviewed her
13	studies we talked about the options, the
14	treatment options. I thought that she was
15	developing kyphosis and it would probably get
16	worse with time. She was relaying to me that
17	she was having severe pain that was not
18	responding to the treatments that she was
19	pursuing.
20	I think I talked to her about I
21	usually talk to them about two different
22	options, one is to treat the pain and one is to
23	treat the underlying problem that is causing the
24	pain. Treating the pain involves medications,

1	physical therapy, maybe pain injections and pain
2	blocks, bracing these things can treat the pain
3	and I talked about treating maybe the underlying
4	problem that's causing the pain which were the
5	fractures. I thought there were fractures and
6	that involved two possible surgical treatments.
7	One was the vertebroplasty and one was the
8	fusion.

I did recommend to her that as far as 9 the surgical procedures were concerned, I 10 thought the vertebroplasty was the better option 11 because of the decrease in the amount of 12 anesthesia time and the invasiveness of the 13 procedure and risks and I think she was not sure 14 at that time whether she wanted to do anything 15 surgically and I give her a follow-up 16 appointment in three months and I asked her to 17 call me if she wanted to see me sooner or if she 18 wished to discuss these things any more. 19

In December she came back and she was having worsening pain, I believe, and I think we again talked about the different options and I think at this point she decided she would like to proceed with the vertebroplasty. I'm not

ABDT	GHODSI,	MD	 EXAM	BY	MS	TREST.
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1	sure specifically but I usually discuss some of
2	the potential problems that can happen and the
3	hospital stay.
4	In her case her coumadin that would have
5	to be discontinued and how long afterwards in
6	terms of her recovery, her hospitalization, her
7	follow-up visits, things like that. We usually
8	discuss that but I don't specifically remember
9	the details of that.
10	Q. Do you remember if she had family with
11	her at either visit?
12	A. She did not.
13	Q. You remember that specifically?
14	A. Yes.
15	Q. In the first when we were going
16	through the first September visit, you talked
17	about that you had you had talked to her
18	about vertebroplasty and fusion, can we agree
19	that your records don't discuss fusion or else I
20	just don't see them?
21	A. I'm sorry. Say that again.
22	Q. September 19. I'm looking at page 3 and
23	it might be somewhere and I just haven't seen
24	it, but you have told me that you discussed

ABDI	GHODSI,	M.D.	 EXAM	BY	MS.	TRESL

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1	vertebroplasty and fusion with her and I see
2	here you discussed bracing and vertebroplasty.
3	A. I probably discussed fusion with her,
4	too.
5	Q. But we can agree that the records don't
6	reflect that you discussed fusion with her?
7	A. The last sentence says, I suspect if
8	kyphosis continues to progress you may need a
9	fusion otherwise so I probably would have
10	discussed the fusion with her.
11	Q. Do you remember anything else about
12	those two visits?
13	A. Not specifically. I think I reviewed
14	the films with her the first visit. I may have
15	reviewed them on the second visit. I'm not
16	sure.
17	Q. Do you remember her demeanor during
18	either visit?
19	A. Nothing stands out in particular.
20	Q. Can you recall discussing with her the
21	possibility of cement leakage associated with
22	vertebroplasty?
23	A. I don't recall specifically at those two
24	meetings but that would be my standard that we

1 had discussed that.

Q. What do you discuss in terms of
complications associated with vertebroplasty
specifically as part of your routine?

I talk about infection, possibility of Α. 5 needing antibiotics or even a surgery if it was 6 7 an abscess. I talk about possibly losing a significant amount of blood and needing a blood 8 9 transfusion. I talk about spinal fluid leakage, 10 headaches and possibly needing a drain or a procedure to repair that. I talk about the 11 cement can leak into the blood vessels and cause 12 an embolus to the lung and can be very serious 13 and then I talk about the cement may leak into 14the canal and cause significant problem with 15 nerve damage and I specifically outline what 16 that nerve damage could lead to, weakness, 17 numbness, paralysis, bowel or bladder 18 dysfunction. I talk about the needle may cause 19 an injury to the nerves or to the spinal cord 20 and bleeding around that area can cause 21 significant pressure on the spinal cord or the 22 nerves and then I talk about the risk of 23 anesthesia like heart attack or a blood clot in 24

-	ABDI GHODSI, M.D EXAM BY MS. TRESL
1	the legs or in the lungs, pneumonia, blood
2	infection, stroke and death. Those are the
3	specific things I discuss with the
4	vertebroplasty.
5	Q. Let's talk about the first surgery if we
6	could. How many vertebroplasties have you done
7	since January 24, 2002, more or less?
8	A. Probably about five or ten.
9	Q. It's not a real common procedure that
10	you do?
11	A. No, by no means.
12	Q. Is that because of the area? I mean, in
13	the bigger cities are they doing gobs of them or
14	
15	A. I think there are people doing a lot
16	more than here, but I tend to be very
17	conservative and I think most people respond to
18	some conservative measures rather than needing
19	surgery, some therapy or medications. They tend
20	to respond or just give it enough time from the
21	time of the injury.
22	Q. Tell me why let's just kind of go
23	through this and answer my questions as we're
24	reading through it. First of all, I have never

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1	seen any informed consent and I'm sure it
2	exists. You refer to it. I asked for it but
3	we're kind of behind on discovery. If I could
4	take a look at it and then ask for a copy of it
5	or maybe you could put it as an exhibit and it
6	could come with the transcript.
7	MS. CLOUSE: You mean the
8	informed consent form for the surgery?
9	MS. TRESL: I'm missing little
10	bits and pieces and I'm not sure why.
11	Thank you.
12	MS. CLOUSE: If you want to
13	mark that before we're done, we'll just
14	make another copy of it.
15	(Deposition Exhibit No. 1
16	marked.)
17	BY MS. TRESL:
18	Q. If we could, talk about why you inject
19	barium initially, looking to the first surgery.
20	A. I look for to see where the contrast
21	goes and the main thing I want to look for is
22	that it doesn't fill up the venous complex real
23	well because we may need the cement to go into
24	the vein if the barium strongly fills up the
ABDI GHODSI, M.D. -- EXAM BY MS. TRESL veins. 1 Is barium strong enough for contrast 2 Q. medium? 3 I don't know if we were using barium. 4 Α. 5 Sometimes we use isovue. It says barium sulphate. Yes, I think I usually can see it. 6 7 With the barium? 0. Α. Yes. 8 Do you know why a tantalum or tungsten 9 Q. are added to the PMMA, the cement? 10 To make it more radiopaque. 11 Α. Were either of those added to Ms. Dodd's 12 0. 13 PMMA, the cement, before it was injected? Am I correct that it's added before it's injected 14 into the cement, the tantalum or --15 Yes. I cannot recall specifically, but Α. 16 I usually do add them. 17 Q. Where would I look to see if you did add 18 them in Ms. Dodd's case? 19 The operating room should have some Α. 20 records of that. 21 Apart from the records that I have? 22 **Q**. It should be somewhere in here, in the A. 23 24 nurse's records of the operating room, I think.

Can you see if you can find that for 1 Ο. 2 me? MS. CLOUSE: Off the record. 3 I can't find the referral to that. 4 Α. Is that something that is available 5 Q. somewhere and you could get to me? 6 I don't know. 7 Α. Who makes the decision whether or not to 8 Ο. add those either/or chemicals. Is that the 9 surgeon's decision or the hospital? 10 11 Α. Yes. So is it sort of like the suite knows 12 Ο. when they are going to do a vertebroplasty with 13 you what you want mixed into your -- as kind of 14 like a standing order of how you want your 15cement mixed so to speak? 16 I think the representatives are there 17 Α. 18 with the company and they assist with those kind of decisions, too. I just usually add it in. 19 Was one of the assistants from the 20 Q. 21 company likely there for Ms. Dodd? Α. 22 Yes. Do you remember that there was? 23 Q. Yes. 24 Α.

So we could talk to that representative 1 Ο. 2 and that person would likely know? Yes, they may know. 3 Α. They are the ones that are sort of 4 0. 5 mixing it for you? No, they cannot touch anything in the 6 Α. 7 operating room. Do you mix it? Ο. 8 The nurse or the surgical assistant Α. 9 mixes it. 10 Do you always sort of ask for the same 11 Q. mixture or does it vary patient to patient? 12 13 Α. I think it's about the same. Which do you prefer, the tantalum or the 14 Ο. tungsten, if that's what you use? 15 I don't remember if that's what I used 16 Α. and I don't have any preference. I don't know 17 which one it was. 18 But it's your testimony that during 19 Ο. Ms. Dodd's vertebroplasty you did mix either 20 21 tantalum or tungsten or something to --I believe I did, yes. Α. 22 We'll see if we can get to the bottom of 23 Ο. 24 that. What size needles did you use for

	ABDI GRODSI, M.D EAAM DI MS. IRESL
1	Ms. Dodd's vertebroplasty?
2	A. I don't recall.
3	Q. What size do you generally use for your
4	vertebroplasties?
5	A. I don't recall. I think they just come
6	in a kit.
7	Q. So you have like a vertebroplasty kit?
8	A. Yes.
9	Q. Do they make it up special according to
10	what you like or is that something that they get
11	
12	A. No, it's standard.
13	Q. From a vertebroplasty company?
14	A. Yes.
15	Q. Where do the needles need to be placed
16	in relation to the vertebral body?
17	A. Within the vertebral body.
18	Q. Anywhere specifically or just within the
19	vertebral body?
20	A. I think I usually like to place them
21	in the anterior portion of the vertebral body.
22	Q. Let's talk about this correct after
23	adjustment and correct positioning of the needle
24	on both views in the first operative report.

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1	Tell me just tell me what you were seeing
2	that caused you to feel that you needed to
3	adjust and correct the positioning.
4	A. I don't recall specifically but I think
5	on one view I was I thought the needle was
6	going too medially so on the AP views so I
7	came out and went a little more laterally.
8	Q. Did you literally remove would this
9	be a trocar now or needle?
10	A. The needle is inside the trocar.
11	Q. Did you pull out the needle and then
12	reinsert it the way you wanted it to be?
13	A. Yes. I don't know if I completely
14	pulled it out.
15	Q. Do you generally pull it out or do you
16	just sort of wiggle it?
17	A. I generally pull it back to where I can
18	get some give in the needle and I can direct it
19	to the direction I want.
20	Q. In this case do you remember if you
21	pulled it out so you could get direction or if
22	you pulled the needle out and started again?
23	A. I don't remember.
24	Q. It seems to me that it would make
	1

1	significant difference. If you pulled the
2	needle all the way out and put it back in, you
3	would probably have to use the same hole;
4	correct?
5	A. Not the same hole, the same entry point.
6	Q. So the trocar remains in, you pull the
7	needle through it and either pull it in or out
8	of the skin, re-adjust it and put it back in?
9	A. Right.
10	Q. How did you know after that adjustment
11	that you had correct positioning?
12	A. I like to watch the needle go in under
13	lateral view so I make sure I have a good
14	position of the pedicle as the needle goes
15	through the pedicle. Then once I get it into
16	good position laterally I resume fluoro and look
17	at it AP and check to make sure the AP view
18	looks okay.
19	Q. When you are inserting the needle are
20	you seeing real time visualization or is
21	somebody hitting a foot pedal and getting block
22	views?
23	A. Combination of both. Sometimes I do
24	continuous fluoro, sometimes I see a picture and

then off and then picture off. 1 Do you remember in this case which it 2 Ο. was? 3 No, I don't. 4 Α. This operative record says that the 5 Q. fluoro time was 12 minutes, 20 seconds, I'm 6 7 assuming. Does that give you any idea if it was on continuously or not? 8 It must have been some continuously Α. 9 because that's a long time. 10 So you are watching real time inserting 11 0. the needle? 12 13 Α. Yes. Just tell me about that. You describe Ο. 14 it to me. 15 A. I stand on the right side of the 16 patient. The fluoro machine is set just in 17 front of me. One part of it is here, one part 18 is on the other side of the patient. My 19 assistant stands there, then the fluoro machine 20 is directly in front of me and I have the needle 21 in and I'm watching the needle there as well as 22 aiming to where I want it to go and using feel. 23 24 So if I have the needle in my hand, I say

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1	continuous and I watch on the fluoro and then I
2	advance and I watch on the fluoro.
3	Q. So you were watching and you didn't like
4	the position so you pulled the needle back?
5	A. Maybe I liked the position on the
6	lateral but when I saw it on AP I didn't like it
7	so I pulled it back.
8	Q. In the vertebroplasties that you've
9	done, how often does it happen that you have to
10	adjust and correct the positioning?
11	A. I don't have a big number. I talked
12	about 15 or 20 cases, but I think adjusting
13	because I don't like the view on the AP maybe
14	once or twice. Adjusting because the contrasts
15	seems to go into blood vessels, I've done that
16	numerous times. I've even taken needles out and
17	put them back in different angle.
18	Q. How many times has that happened?
19	A. Maybe more than 30 times, maybe less
20	than 10. I don't know. I can't tell you.
21	Q. Is this a biplanar fluoroscopy or how
22	would you describe the
23	A. It's a single plane fluoroscopy but you
24	have to swing it around if you want to get an

1	AP.
2	Q. Do you have at your disposal a
3	continuous CAT scan fluoroscopy I guess is
4	one technique?
5	A. No.
6	Q. But you have heard of it?
7	A. I have heard of a CAT scan and I've
8	heard of a fluoroscopy, but I've never heard of
9	a CAT scan fluoroscopy.
10	Q. Tell me what caused the leakage of the
11	cement on the left side that you are seeing
12	there. However, on the left side there was
13	leakage of cement. Do you know what caused
14	that?
15	A. You're looking at the L-2 level?
16	Q. Yes.
17	A. You are asking my opinion?
18	Q. Yes.
19	A. I think when I probably adjusted the
20	needle there was some tracks and I think the
21	cement may have came up along the side of the
22	needle that leaked through a tract that was
23	created by the needle.
24	Q. Sort of like as the needle was going up,

ABDI GHODSI, M.D EXAM BY MS. TRESL
it was like ripping? Explain that to me,
creating a tract.
A. Let's say I put the trocar in with a
needle and I don't like the position and I pull
it out.
Q. The needle?
A. Both.
Q. The trocar and the needle?
A. Yes, and then I replace it. Now, if I
put cement into that second position, the tract
from the first path could potentially cement
could leak back up that tract. That's really
the only thing I can put together with this when
I think about the case is that maybe the cement
leaked through the previous tract.
Q. Is that I'm going to guess it's not
common since you've only done 20 or 30
vertebroplasties. It's never happened to you
before?
A. The cement leaking?
Q. Into the tract?
A. I can't tell if it's in the tract.
That's my theory, but yes, I've had cement leak
before. I recall one case where cement has

leaked before. 1 2 Ο. Before we get to that, is there any literature that talks about the tract and the 3 effect of pulling out and putting it back in? 4 5 A. Not specifically about that. I haven't read anything specifically about that. 6 So knowing that, do you still do that? 7 Q. I mean, would you -- having had the experience 8 of Ms. Dodd, would you still pull the trocar and 9 the needle out, reposition and insert it with 10 the thought that there may have been a tract 11 that the cement can leak through or into? 12 13 A. I still do them. That same way? 14 Ο. If I have to readjust the needle I 15 Α. Yes. go ahead and if I have a good positioning of the 16 needle and inject cement in, yes. 17 Is it reasonable and prudent to inject 18 Q. cement or continue with a procedure when you 19 know that you have cement leakage? 20 I think if you are getting leakage of 21 Α. cement in the canal you need to stop. 22 Looking at the CAT scan of the 25th, did Ο. 23 24 we have leakage into the canal?

-	ABDI GHODSI, M.D EXAM BY MS. TRESL
1	A. At the L-2 level?
2	Q. Anywhere.
3	A. Yes.
4	Q. Did we have it at the L-2?
5	A. Yes.
6	Q. So looking at the CAT scan, there was
7	leakage of cement in the canal so then it was
8	contraindicated to continue to inject cement.
9	Is that what you are saying?
10	MS. CLOUSE: Objection.
11	A. No.
12	Q. Explain it to me then.
13	A. I don't exactly know which part you want
14	me to explain.
15	Q. I said should you continue to inject
16	cement based on what you just said and you said,
17	not if it's leaked into the canal, then I assume
18	you stop the procedure?
19	A. No, not necessarily.
20	Q. You tell me.
21	A. If you have the needle in and you are
22	injecting cement and you see it, you visualize
23	that it's going into the canal you need to stop
24	that injection. You need to readjust the needle
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1	or not put it through that area. In this case,
2	I have two needles in at the same time. One on
3	the right and they were both in position,
4	they pass me the cement. I inject one side then
5	I inject the other side and then I inject the
6	other side. So I inject in the right and then I
7	inject to the left and I think there's some
8	leakage, then I don't inject to the left
9	anymore.
10	Q. But you continue injecting?
11	A. If I inject through the right and it
12	doesn't leak, I may continue to inject.
13	Q. Do you have in the back of your mind
14	that it may have leaked into the canal?
15	A. No, I had no idea it leaked into the
16	canal on this case.
17	Q. But if you had an idea that it leaked
18	into the canal, then you would not inject
19	anymore cement. Am I understanding that
20	correctly?
21	A. If I thought that the cement had leaked
22	into the canal, I probably would not inject
23	anymore.
24	Q. Did you think about maybe getting a CAT

scan before you proceeded injecting more cement? 1 No, I didn't think about getting a CAT 2 A. 3 scan. Do you know when the dura was torn? 4 0. Was 5 it during the first surgery or the second? Probably the first. Α. 6 Explain that to me. 7 Q. I think the needle must have just gone 8 Α. medially along the pedicle and hit the dura. 9 That's the best I can think of it. That's 10 how -- when I tried to think what happened, what 11 went wrong, that's what I thought. 12 13 Q. That would be when you were adjusting and correcting? 14 Α. Yes. 15 So -- and then was the tract -- so where 16 Ο. was the tract in relation to the tear in the 17 dura? 18 I think the needle probably went into 19 A. the dura and then came out the other side of the 20 dura and then went into the vertebral body. Do 21 you need me to get a model? 22 I was actually going to ask you to draw 0. 23 24 me a picture but a model would be great.

I don't know if I have a model with the 1 Α. 2 dura or not. Give us something that we can 3 Ο. memorialize. 4 5 Α. Let's say that this is the body and this is where you want the cement to be. This is the 6 This is the sac, the dura sac. 7 pedicle. The nerves or the spinal cord are in here and these 8 are the laminas of the bone. The needle comes 9 in through here and goes into the body. So the 10 two needles you put in from this side go into 11 12 the body and you inject the cement in the 13 anterior portion of the body. What I think happened in Ms. Dodd's case is that I had the 14 needle pointed too medially in one of the passes 15 and the needle would have probably gone through 16 the dura and was here like this (indicating) and 17 when I took it out and adjusted it and got it 18 back to where I liked it, it was in the pedicle 19 and potentially when I injected through here, 20 maybe the cement leaked out through this tract 21 into the sac. 22

Q. So there were actually then two holes in
the dura?

۲۰۰۰	A. There has to be by definition.
2	Q. When you pulled it back, is it possible
3	that there were even two more holes or do you
4	assume that it went and out through the same
5	holes or it pulled back through the same holes?
6	A. I only saw one hole when I went in for
7	the second surgery and that would be the entry
8	hole.
9	Q. What did you see when you saw the hole?
10	I mean, literally a hole?
11	A. I think I just saw spinal fluid leaking
12	through an area. The dura is a tough material
13	to kind of like a ligament almost and I saw
14	the spinal fluid through that hole so I just put
15	a stitch through it.
16	Q. Where is the thecal sac in relation to
17	that?
18	A. It sits like this.
19	Q. So the cement was actually
20	A. This is the sac. This is the clonus.
21	Q. And the thecal sac is
22	A. The dura is the thecal sac.
23	Q. That's the same thing?
24	A. Yes.
	1

1	Q. When you saw cement butting up against
2	the clonus, the cement was actually in
3	A. I didn't see cement butting up
4	against
5	Q. Let me get the exact language. The
6	butting to the conus and the
7	A. Conus, C-O-N-U-S.
8	Q. And the butting cauda equina. So is
9	I think that's the second operative note.
10	A. In the second operating note there was
11	cement here because I did open this sac up and
12	look inside.
13	Q. The cement was inside here or butting
14	against this?
15	A. It was in the intrathecal sac touching
16	the conus.
17	Q. But not inside the conus?
18	A. I don't think it was inside the conus,
19	but I didn't open the conus to look. That's the
20	spinal cord and you don't want to touch that.
21	Q. Thank you. Can we mark that as an
22	exhibit and have it for
23	(Deposition Exhibit No. 2
24	marked.)

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ABDI GHODSI, M.D. -- EXAM BY MS. TRESL BY MS. TRESL: 1 2 0. I'm assuming that this is an H&P, 1/24. 3 Α. Yes. If I can refer you to the second page, 4 Ο. 5 it says here that, I have also discussed the potential possibility that the procedure cannot 6 7 be done because of cement leakage. Α. Yes. 8 Now, when a lay person like me reads 9 Q. that, that sounds like, gee, I see cement 10 leakage in the first surgery so I'm going to 11 stop and I can't proceed but you are telling 12 13 me --I am referring to cement going to the 14Α. veins primarily. 15 And you can visualize that under fluoro? 16 Ο. Yes. 17 Α. But you can't visualize it going into 18 Q. the dura? 19 I think potentially you can. If you see Α. 20 the cement leaking into the canal, you can see 21 that. 22 But in this case you didn't? 23 Ο. I didn't see it leak into the canal. 24 А. Ĩ

1	saw some leakage and I thought it was leaking
2	into the psoas.
3	Q. But did that concern you?
4	A. That's what I was referring to when I
5	said I saw leakage.
6	Q. Did it concern you that it was leaking
7	into the psoas muscle?
8	A. Yes.
9	Q. But not enough to stop the procedure?
10	A. I didn't inject through that side
11	anymore.
12	Q. But it seems like if you were injecting
13	on the other side then
14	A. Can I get that back a second. The psoas
15	muscle sits right here. Just like the needle
16	can go this way, it can go this way and it can
17	break the bone here and here and cement can leak
18	into this the psoas muscle.
19	Q. Why did you choose in your mind that it
20	was leaking in the psoas muscle?
21	A. Because I switched fluoro to AP and I
22	looked and the leakage looked to the side of the
23	vertebral body.
24	Q. Did you switch fluoro in a way that

1	would have allowed you to see if it was also in
2	the dura?
3	A. On the lateral you can't tell because
4	you say, well, if the cement is sitting here or
5	here there's no difference, but if you switch to
6	AP, then you can tell if the cement is here or
7	here. I switched to AP and saw that cement had
8	leaked here. I thought everything was in the
9	psoas. I didn't think there was anything in the
10	canal.
11	Q. Did you look to see if there was
12	anything in the canal?
13	A. To the best of my ability I looked, yes.
14	Q. But we can agree there was cement in
15	there later on CT scan?
16	A. Yes, and I went back in and I saw the
17	cement with my visual eyes on the second
18	surgery. I visualized the cement in the canal,
19	yes.
20	Q. So I guess I don't understand why when
21	you were switching the fluoro looking from
22	different directions you saw it in the psoas
23	muscle but you didn't see it in the dura and yet
24	you should have been able to see it both, I

believe is what you said. MS. CLOUSE: I'm going to
MS. CLOUSE: I'm going to
object just because I think he's
explained to you a couple of times now
what he thought he saw and
MS. TRESL: Go ahead and
answer.
A. I didn't think I could see any cement in
the canal.
Q. Did you have the ability, did you say,
gee, I'm going to switch it and I'm going to
look and see if it's in the canal?
A. Yes.
Q. And you looked?
A. And I didn't think it was in the canal.
Q. Because you didn't see any in the canal?
A. I thought the leakage was in the psoas.
I thought I had seen some leakage and I looked
on the AP and there was a lot of cement or
I'd like to just clear something up, though,
because the cement you can see on the fluoro but
the dye, you can also see on the fluoro.
Sometimes you can think that's cement but it's
actually dye because we do test inject dye and

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1	that's one of the notes you'll see on one of my
2	dictations. I say, I am not sure if this is
3	cement in the canal or not. The reason I'm sure
4	it's cement in the canal because I went back and
5	looked and there was cement in the canal. I
6	thought maybe it could be dye in the spinal
7	canal. Could it be dye around the conus? That
8	could have easily been dye rather than cement,
9	but I took a good look and I did not think that
10	there was any cement in the canal.
11	Q. But just let me be clear because, you
12	know, sometimes if you think if you've solved a
13	problem and you see where the problem is coming
14	from, sometimes your mind just thinks and that's
15	kind of in a different direction. So logically
16	I would think if I were in there and I saw that
17	there was dye on this side I mean, cement on
18	this side, I wouldn't necessarily think to look
19	that there was also cement on the other side,
20	but your testimony is that you looked and you
21	knew that there was no cement in the canal?
22	A. In my mind I didn't think there was any
23	cement in the canal.

Q. Do you know if all these images are

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1	available because I have not been able to get
2	them? Is there records saved of what you were
3	seeing?
4	A. I think you'll have to check with the
5	hospital, what they say.
6	Q. I did.
7	A. Usually I specifically ask for some
8	pictures saved. I say, save that picture for me
9	and then at the end I say, print all the
10	pictures for me. Usually if I ask them to save
11	something, they print it for me or put it in the
12	records but I don't know if they keep a tape, a
13	running tape or anything like that. I don't
14	believe there is anything, but you'll have to
15	check with the hospital.
16	Q. What they've told me is that there are
17	three films that you requested of I believe
18	it's the vertebroplasty at each level. That's
19	what we have or that's what they say they have.
20	So routinely you don't keep when there's
21	questions like this, you don't ask them to save
22	the continuous real time as you are taking it?
23	A. I don't know if they have a capability
24	of doing that or not.

1       Q. Thank you. I belie         2       So you finished the surgery         3       thought about the vertebrop         4       completed it?         5       A. I was very satisfie         6       Q. Why?         7       A. Because I had got a         8       cement at all three levels.         9       achieved the goal that I ha         10       the surgery, to get an adeq         11       in each level to bolster it         12       Q. When you were doing         13       you have any idea that then         14       leakage or any difficulties         15       A. No, in fact, the o         16       very smoothly.         17       Q. So presumably Ms. I         18       recovery room?         19       A. Yes.         20       Q. And if she begins filler         21       there's some difference in         22       ability to push against the	
3       thought about the vertebrop         4       completed it?         5       A. I was very satisfie         6       Q. Why?         7       A. Because I had got a         8       cement at all three levels.         9       achieved the goal that I ha         10       the surgery, to get an adeq         11       in each level to bolster it         12       Q. When you were doine         13       you have any idea that then         14       leakage or any difficulties         15       A. No, in fact, the o         16       very smoothly.         17       Q. So presumably Ms. I         18       recovery room?         19       A. Yes.         20       Q. And if she begins for an addifference in	and tell me what you
4       completed it?         5       A. I was very satisfie         6       Q. Why?         7       A. Because I had got a         8       cement at all three levels.         9       achieved the goal that I ha         10       the surgery, to get an adeq         11       in each level to bolster it         12       Q. When you were doing         13       you have any idea that then         14       leakage or any difficulties         15       A. No, in fact, the o         16       very smoothly.         17       Q. So presumably Ms. I         18       recovery room?         19       A. Yes.         20       Q. And if she begins for an addition of the second of the s	
5       A. I was very satisfie         6       Q. Why?         7       A. Because I had got a         8       cement at all three levels.         9       achieved the goal that I ha         10       the surgery, to get an adeq         11       in each level to bolster it         12       Q. When you were doing         13       you have any idea that then         14       leakage or any difficulties         15       A. No, in fact, the o         16       very smoothly.         17       Q. So presumably Ms. I         18       recovery room?         19       A. Yes.         20       Q. And if she begins for an adequing the set of the set of a set o	lasty when you
6       Q. Why?         7       A. Because I had got a         8       cement at all three levels.         9       achieved the goal that I ha         10       the surgery, to get an adeq         11       in each level to bolster it         12       Q. When you were doing         13       you have any idea that then         14       leakage or any difficulties         15       A. No, in fact, the or         16       very smoothly.         17       Q. So presumably Ms. I         18       recovery room?         19       A. Yes.         20       Q. And if she begins for any difference in	
7       A. Because I had got a         8       cement at all three levels.         9       achieved the goal that I ha         10       the surgery, to get an adeq         11       in each level to bolster it         12       Q. When you were doing         13       you have any idea that then         14       leakage or any difficulties         15       A. No, in fact, the or         16       very smoothly.         17       Q. So presumably Ms. 1         18       recovery room?         19       A. Yes.         20       Q. And if she begins         21       there's some difference in	ed with it.
<ul> <li>cement at all three levels.</li> <li>achieved the goal that I had</li> <li>the surgery, to get an adeq</li> <li>in each level to bolster it</li> <li>Q. When you were doing</li> <li>you have any idea that ther</li> <li>leakage or any difficulties</li> <li>A. No, in fact, the or</li> <li>very smoothly.</li> <li>Q. So presumably Ms. I</li> <li>recovery room?</li> <li>A. Yes.</li> <li>Q. And if she begins for</li> <li>there's some difference in</li> </ul>	
<ul> <li>9 achieved the goal that I had</li> <li>10 the surgery, to get an adeq</li> <li>11 in each level to bolster it</li> <li>12 Q. When you were doing</li> <li>13 you have any idea that ther</li> <li>14 leakage or any difficulties</li> <li>15 A. No, in fact, the or</li> <li>16 very smoothly.</li> <li>17 Q. So presumably Ms. I</li> <li>18 recovery room?</li> <li>19 A. Yes.</li> <li>20 Q. And if she begins for</li> <li>21 there's some difference in</li> </ul>	a good amount of
<ul> <li>the surgery, to get an adeq</li> <li>in each level to bolster it</li> <li>Q. When you were doing</li> <li>you have any idea that ther</li> <li>leakage or any difficulties</li> <li>A. No, in fact, the or</li> <li>very smoothly.</li> <li>Q. So presumably Ms. 1</li> <li>recovery room?</li> <li>A. Yes.</li> <li>Q. And if she begins</li> <li>there's some difference in</li> </ul>	I had basically
11in each level to bolster it12Q. When you were doing13you have any idea that ther14leakage or any difficulties15A. No, in fact, the or16very smoothly.17Q. So presumably Ms. 118recovery room?19A. Yes.20Q. And if she begins for21there's some difference in	d set out to do in
12Q.When you were doing13you have any idea that ther14leakage or any difficulties14leakage or any difficulties15A.16very smoothly.16very smoothly.17Q.18recovery room?19A.20Q.Q.And if she begins21there's some difference in	uate amount of cement
<ul> <li>13 you have any idea that ther</li> <li>14 leakage or any difficulties</li> <li>15 A. No, in fact, the or</li> <li>16 very smoothly.</li> <li>17 Q. So presumably Ms. 1</li> <li>18 recovery room?</li> <li>19 A. Yes.</li> <li>20 Q. And if she begins</li> <li>21 there's some difference in</li> </ul>	up.
14leakage or any difficulties15A. No, in fact, the or16very smoothly.16very smoothly.17Q. So presumably Ms. 118recovery room?19A. Yes.20Q. And if she begins for the some difference in	g the other levels did
15A. No, in fact, the or16very smoothly.17Q. So presumably Ms. 118recovery room?19A. Yes.20Q. And if she begins for21there's some difference in	e was any cement
<ul> <li>16 very smoothly.</li> <li>17 Q. So presumably Ms. 1</li> <li>18 recovery room?</li> <li>19 A. Yes.</li> <li>20 Q. And if she begins for there's some difference in</li> </ul>	?
<ul> <li>Q. So presumably Ms. 1</li> <li>recovery room?</li> <li>A. Yes.</li> <li>Q. And if she begins</li> <li>there's some difference in</li> </ul>	ther two levels went
<ul> <li>18 recovery room?</li> <li>19 A. Yes.</li> <li>20 Q. And if she begins</li> <li>21 there's some difference in</li> </ul>	
19A. Yes.20Q. And if she begins21there's some difference in	Dodd goes to the
20Q. And if she begins21there's some difference in	
21 there's some difference in	
	to be recovered
22 ability to push against the	
	nurse's hands;
23 correct?	
24A. Pull up.	

At that point did you begin thinking 1 Ο. maybe there was some neurological deficit or 2 what went through your mind when the nurses told 3 you that? 4 5 Α. Well, you immediately think about what 6 could potentially be wrong and the most common reason is the needle hit a nerve when you put it 7 in and the nerve is stunned or inflamed. You 8 think about bleeding potentially but usually 9 that doesn't effect just one nerve root. 10 She seemed to have mainly one nerve root that was a 11 problem. 12 So does that make the reasonable 13 Ο. neurosurgeon suspect that you stunned a nerve as 14 opposed to bleeding? 15 I thought that's probably what had 16 Α. happened. I thought maybe the needle had hit 17 the nerve that was going down her leg or hit the 18 19 last of the conus and that was what was causing 20 the weakness in the leg. Did you think at that time that perhaps 21 Q. it was because of leaking cement? 22 I may have. I'm sure it must have gone 23 Α. through my mind because you go through a 24

	ABDI GHODSI, M.D EXAM BY MS. TRESL
1	differential of what everything that could
2	potentially have happened wrong. So I'm sure I
3	thought about it, that it could have been
4	cement, too, yes.
5	Q. If you think about it and you are not
6	sure, is there a way to determine if it's cement
7	versus that a nerve is stunned?
8	A. I think you can get some x-rays and you
9	can get the CT scan and the MRI.
10	Q. Did you consider getting a CT scan or
11	MRI?
12	A. I put her on some steroids and I thought
13	if she's certainly not improved with the
14	steroids I would get a study.
15	Q. Was there any reason not to get a study
16	and put her steroids at the same time?
17	A. I can't think of any reason other than,
18	you know, I can order thousands of studies on
19	one patient in the hospital. I can order a CT
20	on them everyday when they have brain surgery
21	but I don't because you just go by your clinical
22	judgment and try what's the ideal test for a
23	brain study, it's an MRI. Do you want a MRI on
24	a patient every day that they are in the

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1	hospital just because they had surgery, maybe
2	you missed a little bleeding, do you get MRI's
3	on them every day or do you examine them and if
4	something goes wrong, something changes maybe
5	you order a test and then what test do you
6	order? Do you order the CT scan which maybe not
7	as accurate but it's quicker and less costly and
8	you got to use your resources appropriately. I
9	think what I thought is that, give her a little
10	bit of time, give the anesthesia to wear off.
11	Sometimes anesthesia can lead to some
12	exaggeration of weakness, give her some
13	steroids. I thought if she got better then we
14	could continue to follow her, but if she didn't
15	get any better I would get some studies.
16	Q. But we can agree that you knew that
17	cement had leaked?
18	A. Had leaked into the psoas muscle.
19	Q. There had been some cement leakage?
20	A. Yes.
21	Q. And we can agree that she had some
22	neurological deficits as she was being
23	recovered?
24	A. Yes.

1	Q. So can we agree that it would be
2	reasonable to get a CAT scan to see if the
3	cement was causing the neurological deficit?
4	MS. CLOUSE: Objection. You
5	can answer.
6	A. No, I don't think it would be
7	reasonable.
8	Q. If you find that let's say that you
9	know that cement has leaked and that it's
10	causing a neurologic deficit. What would the
11	reasonable neurosurgeon do knowing that?
12	A. I think treat her with steroids, give
13	her some time, see if she would get better. The
14	study that I have seen regarding this is that as
15	many as 30 percent can leak some cement into the
16	canal. The majority are not symptomatic.
17	Q. But for those that are symptomatic, what
18	does the reasonable neurosurgeon do?
19	A. I think you try to figure out what's
20	going on.
21	Q. How do you try and figure out what's
22	going on?
23	A. With the examination and appropriate
24	imaging.

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But in this case you didn't get the 1 **O**. appropriate imaging until the next day; 2 3 correct? MS. CLOUSE: Objection. 4 5 Α. I did get x-rays in the recovery room. 0. Would they have shown where the cement 6 7 was? 8 Α. Yes. So the x-rays that you got on the 24th, 9 0. did they show what the CAT scan confirmed on the 10 25th? 11 I don't remember exactly. I don't have 12 Α. a note written up for that day. 13 MS. CLOUSE: You can look at 14 the x-rays if you want. 15 MS. TRESL: I'm looking at 16 The only one I know from that this. 17 date but I don't know if that's correct 18 19 or not. 20 MS. CLOUSE: I don't see one either. I'm sorry. 21 THE WITNESS: Do we have those 22 films? 23 MS. TRESL: I do have those 24

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1	films, actually not in my possession,
2	but I have copies of those films.
3	THE WITNESS: It says, spine,
4	lumbar, two or three views.
5	MS. TRESL: For the record,
6	we're looking at Exam 331967 spine,
7	lumbar, two or three views,
8	vertebroplasty at OR, date of exam,
9	1/24/01. I think that would actually be
10	1/02, wouldn't it?
11	BY MS. TRESL:
12	Q. Is it your testimony then that this
13	series of films would have showed you whether or
14	not there was leakage into the canal?
15	A. Potentially they can show you.
16	Q. We know on the 25th there was cement in
17	the canal, so why then would this one not have
18	showed us what the CAT scan did?
19	A. Because the x-ray is not has good as the
20	CAT scan.
21	Q. But you relied on this to tell you
22	whether or not there was cement in the canal?
23	A. I don't know if I relied on that for
24	that. I can't say I relied on that to tell me

1	there was no cement in the canal. I thought the
2	appropriate treatment was give her steroids,
3	give her some time to see if she would have any
4	recovery.

What if you knew these films came back 5 0. on the 24th, an hour post-op and you saw there 6 7 was cement in the canal coupled with her neurological deficits. What would the 8 reasonable and prudent treatment be then? 9 I think there are different potential 10 A 11 treatment options. I think one is if you get the study and you see something, you can go in 12 13 and explore it, one is you can leave it alone 14 and see if it gets better, treat her with steroids and time, which is the course we 15 followed after we had the CT. We discussed it 16 with Ms. Dodd. We spent a lot of time talking 17 about what we could do. I didn't know if the 18 compression would make it any better --19 20 decompression would make it any better. I 21 really wasn't sure and I was worried that she would be worse. 22

Q. Can we agree that Ms. Dodd was taking a
lot of pain medication post vertebroplasty until

	ABDI GHODSI, M.D EXAM BY MS. TRESL
1	the time you went in to do the decompression?
2	A. Can we agree that she was taking pain
3	medication? Yes.
4	Q. Did you feel that she could really
5	understand and give informed consent?
6	A. Absolutely.
7	Q. Based on what?
8	A. Based on my conversations with her. She
9	was very elusive. She weighed all the options.
10	She asked all the appropriate questions.
11	Q. So is it your testimony then on the 24th
12	when you explained to her and the family that
13	there was cement leakage, you gave them the
14	option of going
15	A. I don't know if I explained that to them
16	on the 24th.
17	Q. Talk to me about the discussion you had
18	with Ms. Dodd on the 25th, on the bottom
19	paragraph where you talk about I have
20	discussed with her potential option for surgical
21	exploration and removal, et cetera. Talk to me
22	about that.
23	A. I think I thought that there may be
24	some cement in the canal. The cement looked

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1	very suspicious for being inside the dura.
2	Usually the leakage would be outside the dura.
3	I thought that she had some deficits and there
4	was flexion and the bladder. I wasn't sure if
5	the bladder was related to the procedure or not
6	but maybe. Sometimes narcotics right after the
7	operation can cause the bladder to be weak. So
8	I had a lot of mixed feeling. One option was to
9	go in and try to get the cement off. As
10	neurosurgeons we're trained to rush in there and
11	get the pressure off, but I knew it was right
12	around the conus. I knew there would be
13	significant amount of risk trying to get that
14	cement out of there because I knew it was hard.
15	Cement gets hard almost immediately and she had
16	a very bad complication. She had a foot drop
17	and possibly bladder dysfunction but she wasn't
18	paralyzed and I just didn't want to make
19	anything worse. It was a difficult decision and
20	that's why I discussed it with different people,
21	what to do, what's best to do and I think I gave
22	her the option. I said, can you live with the
23	weakness in the foot and she said, yes, I can
24	live with it. I said, can you live with the

	ABDI GHODSI, M.D EXAM BY MS. TRESL
1	bladder, no, I can't live with that. I said,
2	then it may be worth going in and trying to see
3	if we can make things better.
4	Q. Did you have the discussion with her on
5	the 25th or the 26th?
6	A. Both.
7	Q. Is it more advantageous to do the
8	decompression and/or laminectomy closer to the
9	vertebroplasty or
10	A. I don't think there is any convinced
11	literature to say how quickly you do it. As
12	intuitively to me, the quicker the better, but
13	generally in spine surgery, if somebody comes in
14	with a bad fracture and they have a spinal cord
15	injury and they are getting better, there is
16	absolutely no indication going in right away.
17	If they are staying the same, there's no
18	indication in rushing in. If they are getting
19	worse, you need to go in there right away and
20	decompress. So this is what the literature
21	tells us over the years, that if things are
22	getting worse, decompress, if things are staying
23	the same or improving, you can take your time
24	and do the operation at a time that's good.

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1	Q. So it's your testimony then that you are
2	not familiar with the literature that says when
3	a patient comes back from vertebroplasty with
4	suspicion of cement leakage, that the reasonable
5	and prudent neurosurgeon gets a CAT scan,
6	determines if there's cement. If there is,
7	takes the patient immediately for emergency
8	decompression surgery?
9	MS. CLOUSE: Objection, you can
10	answer.
11	A. You'll need to repeat that. Are you
12	saying there's literature that says that?
13	Q. Would you disagree with literature that
14	says that?
15	MS. CLOUSE: Objection, you can
16	answer.
17	A. I would have to see that literature.
18	Q. Have you read any studies that say when
19	a patient has a vertebroplasty and the
20	neurosurgeon or the spine surgeon or
21	interventional radiologist has suspicion that
22	there's cement somewhere in there, that the
23	standard of care is to get an immediate CAT
24	scan?

I have not heard that study. 1 Α. 2 So it's your testimony you are not Ο. familiar with those guidelines? 3 MS. CLOUSE: Objection. 4 5 Α. I don't think there is such a quideline. 6 So it's your understanding if a patient 7 0. has a suspicion for cement in the canal or 8 somewhere in there, if there's a problem with 9 leaking cement, that the standard of care --10 although you've said there's different school of 11 12 thoughts -- but the standard of care, one option 13 that's standard, reasonable and prudent is to treat with steroids and watch the patient? 14 Α. Yes. 15 Can you point to me any literature that 16 Ο. cites that as the reasonable and prudent 17 treatment? 18 Α. No. 19 Can you sight me to any research that 20 Q. says IV Decadron can reverse the effect of 21 cement in the canal causing a neurological 22 deficit? 23 24 A. I think Decadron is to help in
1	
1	inflammation.
2	Q. Can you sight me any literature that
3	says that that is a reasonable and standard
4	treatment when the neurosurgeon suspects there
5	may be cement in the canal or the thecal sac or
6	wherever?
7	A. Are you talking generally?
8	Q. Any specifically or generally, if you
9	know an article, if you know a global study,
10	I'll be happy to reference it and find it.
11	A. I don't know.
12	Q. So on what do you base because you
13	said intuitively you want to rush in as a
14	neurosurgeon. What is it that you've relied on
15	to say, I'm going to ignore my intuition and I'm
16	just going to just watch?
17	MS. CLOUSE: Objection.
18	A. The degree of compression is very
19	important. If the conus is just severely
20	pressed, it's different than if there's cement
21	around the conus. You have to decide what
22	caused the injury. Is it pressure on the nerve
23	that's making that foot or is it possibly maybe
24	the needle hitting it that could have caused it

1	or is it the heat from the cement that caused
2	the injury. I don't think I can sit here and
3	say that what caused it, but I can think of
4	what caused it. I mean, my opinion is the heat
5	caused the injury and the amount of compression
6	was not severe. The patient had one deficit and
7	one nerve root and I think a better option was
8	to discuss all the options with her and give her
9	part of that decision-making process and give
10	her family part of that decision-making process
11	because if I had rushed her emergency to the
12	operating room and she had become paralyzed, I
13	couldn't have lived with myself without having
14	discussed it with her.
15	Q. When you say that you thought it was

heat that had caused it, is that the same as a stunned nerve? Is that the same thing that you are thinking because you told me before you thought the nerve was stunned?

A. No, I said that was one of the things it
could have been.

Q. I think you said that was sort of what you were favoring at that point. Now you just told me heat, is that the same thing?

r	ABDI GHODSI, M.D EXAM BY MS. TRESL
1	A. No. It could be a needle that hit a
2	nerve.
3	Q. Right, and part of her differential
4	diagnosis was also that it might be the heat
5	from the cement that was causing her deficit?
6	A. If the cement leaks into the canal and
7	leaks next to the conus and it heats up, that
8	assumes that it could cause a deficit but I had
9	no idea that cement was next to the conus at
10	that point.
11	Q. But can we agree that nothing was
12	stopping you from getting a CAT scan on the
13	24th?
14	A. No, I could have ordered a CAT scan.
15	Q. Can we agree that there was an operating
16	room available to do an emergency decompression
17	or laminectomy had you deemed it necessarily?
18	A. I'm sure they could have. I can't tell
19	you for sure, but I'm sure they could have made
20	accommodation.
21	Q. When you do vertebroplasties here,
22	I assume and correct me if I'm wrong that
23	there is sort of a standby OR suite, OR crew
24	ready to do an emergency decompression as

1 necessary? I wouldn't say that's always the case, Α. 2 but certainly I think they can scramble and put 3 something together. 4 Have you ever had a patient who after 5 Q. 6 vertebroplasty where you have suspected that 7 there is cement leakage -- have you ever have 8 such a patient upon recovering have a neurological deficit like Ms. Dodd's? 9 Α. No. 10 Have you not since and not before 11 **Q**. Ms. Dodd? 12 Α. No. 13 14 Q. So this was the first time? 15 Α. Yes. 16 **Q**. When Ms. Dodd was recovering and you noticed this neurological deficit since it was 17 the first time for you, did you discuss it with 18 19 your colleagues? 20 Α. Yes. Who did you discuss it with? 21 Q. A. I talked to Dr. Hitchon. 22 He would be? Ο. 23 He's my professor at the University of 24 A.

1 Iowa. So you telephoned your professor? 2 Q. Α. Yes. 3 About what time on the 24th did you do 4 Q. 5 that, or the 25th? Α. Probably in the evening of the 24th. 6 7 What did you say to him? 0. Α. I don't recall specifically but I 8 discussed that I had a patient who was weak 9 after vertebroplasty and there may be some -- I 10 don't remember if it was the 24th or 25th that I 11 talked to him, but when I discussed it with him 12 I said I thought there was cement maybe in the 13 canal and there was even cement in the dura sac 14 and I had asked him what he thought about that, 15 16 has that ever happened, what to do, what's the best thing, is decompression the best thing, is 17 waiting the best thing and his thought was the 18 19 injury had been caused by the exothermic reaction, the heat, and he didn't think that 20 taking the cement off would make things better. 21 So you called him and his advice was 22 Ο. just kind of watch and wait? 23 No, his advice was to give the patient 24 Α.

1	the option.
2	Q. But certainly he didn't recommend
3	emergent decompression?
4	A. No.
5	Q. Did he ask you if you had gotten a CAT
6	scan at that point?
7	A. I think this is after the CAT scan and
8	the MRI.
9	Q. So that was the 25th and also after the
10	MRI?
11	A. Yes, it may have been after the MRI. It
12	may have been after the CAT scan. I can't tell.
13	Q. When you told him the results of the CAT
14	scan, he continued to think that it may have
15	been heat?
16	A. This is all one conversation. He
17	thought the heat caused the damage.
18	Q. He wasn't concerned did you know at
19	that point that the cement was butting up
20	against the conus and cauda equina?
21	A. I'm not sure. I think I did.
22	Q. And he still thought that it was the
23	heat that was causing neurological deficit as
24	opposed to the cement?

He thought the damage was done. 1 Α. And that going in wouldn't have changed 2 Ο. the results? 3 No, he didn't think it would. Α. 4 5 Q. Did he think that had you gone in sooner that it would have changed the results? 6 7 Α. No. Did he say he didn't think so or did you Ο. 8 just not discuss it? 9 I think he told me he didn't think -- he Α. 10 didn't think that whatever I would do would make 11 a difference at that point. He said the injury 12 13 happened and subsequent to that it probably wouldn't change anything, wouldn't change her 14 outcome. 15 Q. Was there any point in time on the 24th 16 from the time you did the vertebroplasty to, 17 let's say, 10:00 or 11:00 that night where any 18 intervention would have changed her outcome? 19 In my opinion? 20 Α. In your opinion. 21 Ο. I don't think so. Α. 22 So once you re-adjusted that needle and 23 Ο. make that tract -- presumably that's your theory 24

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1	and re-inserted or inserted the cement, the
2	damage was done?
3	A. I think the damage was done because of
4	the heat, the heat of the cement on the conus.
5	Q. But not because of the leakage of the
6	cement per se and that 2.2
7	A. The leakage of cement caused the heat to
8	be there.
9	Q. I understand, but your testimony is that
10	the 2.2 centimeters of cement butting against
11	those two things, the conus and cauda equina
12	didn't cause a neurological deficit or had very
13	minimal impact on the neurological deficit, it
14	was the heat that did it?
15	A. I didn't think that the compression was
16	severe.
17	Q. Did you believe that after you went in
18	for the second surgery on the 27th?
19	A. No, I don't even think there was 2.2
20	centimeters of cement there. I know that's what
21	the radiologist said.
22	Q. So you would disagree with the radiology
23	report?
24	A. Yes, I do.

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1	Q. Before we move on to the second surgery,
2	who else did you consult among your colleagues
3	since you have never experienced this before?
4	A. I talked to Dr. Jeff Carpenter in
5	Morgantown. He's a radiologist and he thought
6	he had heard of one case where an anesteologist
7	had some leakage of cement and the patient had
8	become paralyzed. They had decompressed there
9	but it didn't do any good. He said he didn't
10	have extensive experience in that matter.
11	Q. Was there anyone that you consulted on
12	the 24th or were all of your consultations after
13	the CT scan on the 25th. We'll come back to
14	those but I'd like to know if you spoke with
15	anyone on the evening of the 24th or the
16	afternoon when the nurses were telling you that
17	Ms. Dodd had some neurological deficits?
18	A. I knew there was neurological deficits
19	myself. I'm not sure. I don't think I
20	discussed it with anybody on the 24th. I may
21	have.
22	Q. But you don't remember?
23	A. No.
24	Q. Was there anesthesia floating around
	1

	ADDI GRODSI, M.D. EXAM DI MS. IRESH
1	that you might have discussed it with or a
2	radiologist or did you go down and talk to
3	Dr. Grocell and say, is there anything since
4	you discussed the CAT scan with him on the
5	25th
6	A. Yes.
7	Q. Did you consult so your testimony
8	is
9	A. I don't remember consulting with
10	Dr. Grocell.
11	Q. So this was an independent judgment you
12	made on yourself then, that you thought if you
13	watched and waited and treated her with
14	A. I said I don't remember talking to
15	anybody about it. I may have.
16	Q. It seems like okay, you don't
17	remember. Second surgery, tell me why Dr. Gold
18	assisted you with the second surgery or was in
19	the room for the surgery because I think you
20	said maybe
21	A. I asked him to come take a look.
22	Q. Why did you ask him to come take a look?
23	A. Because I was debating whether to take
24	the cement off the conus or not.
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1	Q. What was it about Dr. Gold that would
2	help you in making that decision?
3	A. I think I just wanted his opinion.
4	Q. Because?
5	A. His opinion would go into my making a
6	decision.
7	Q. So he was actually scrubbed and standing
8	there and viewing what you were viewing and then
9	did you discuss sort of back and forth what you
10	should do as you were freeing up the ends and
11	tacking it up and what not?
12	A. Yes.
13	Q. Did you actually see a little glob of
14	cement?
15	A. Yes.
16	Q. That was in that area by the conus?
17	A. Yes.
18	Q. If Ms. Dodd would say that it was at her
19	request that Dr. Gold came in because she was
20	uncomfortable for the second procedure, do you
21	have any recollection of her asking you to have
22	Dr. Gold do the second surgery with you?
23	A. No, I told her that I would be
24	discussing the case with Dr. Gold.

r	ABDI GHODSI, M.D EXAM BY MS. TRESL
1	Q. When did you tell her that?
2	A. On the 25th.
3	Q. So she never said to you, I will agree
4	to the surgery if you have Dr. Gold assist you?
5	A. I don't think so. I don't remember that
6	at all.
7	Q. Do you recall the daughter saying that
8	to you?
9	A. No.
10	Q. So it's your testimony that on your own
11	decision it was your own decision to have
12	Dr. Gold in and look at the cement with you or
13	look at the spine with you?
14	A. It was definitely my decision.
15	Q. You discussed about the dura being
16	torn. You didn't see it in the first surgery
17	but it's the second surgery you realized it or
18	from CAT scan you realized it?
19	A. I think I suspected the dura had to have
20	a tear in it for the cement to be in there.
21	Q. So on this I'm not sure you have a
22	copy of it. I just dug it out. If not, we'll
23	mark it as an exhibit. You probably do. I
24	think it's probably on the front plate where

	ADDI GHODSI, M.D. EAAM DI MS. INISH
1	they do the billing or whatever and there may be
2	one that proceeds this. I don't know. We're
3	going to find out from
4	MS. TRESL: Is that the only
5	one you have?
6	MS. CLOUSE: Yes.
7	MS. TRESL: Okay. Then maybe
8	that's the only copy. The reason I'm
9	confused is because it starts with the
10	dates of the 27th, although, it admits
11	the 25th and I would sort of think that
12	pathological fracture, I don't know,
13	there should be vertebroplasty or
14	something in there, but when they are
15	talking about here, coding, this
16	complications of procedure, accidental
17	puncture and accidental puncture
18	perforation, are they referring then to
19	the dura tear or the cement?
20	A. I have no idea you would have to ask
21	them. These are a list of the diagnosis that
22	they do for billing purposes.
23	Q. I understand. Do you have any reason to
24	believe that the first surgery would be

1	classified as other specified complications of
2	procedure?
3	MS. CLOUSE: Do you get
4	involved with the billing?
5	THE WITNESS: I have no
6	involvement with this at all.
7	BY MS. TRESL:
8	Q. If the billing person from Marietta
9	Memorial said to you, the first surgery we
10	classified as a secondary diagnosis, other
11	specified complications of procedure, would you
12	agree or disagree with that coding?
13	A. I have no knowledge about coding.
14	Q. Would you agree that during the first
15	surgery on the 24th there were other specified
16	complications of procedure not elsewhere
17	classified apart from billing?
18	A. You are reading something that doesn't
19	make sense to me. What does that mean?
20	Q. I don't know. What is the definition
21	of, other specified complications of procedures?
22	A. Other specified?
23	Q. Cement leakage. I would say maybe other
24	specified complications would be cement

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1	leakage. I don't know. I'm just trying to
2	determine.
3	MS. CLOUSE: I'm going to
4	object because he doesn't know what the
5	specified complications of the
6	procedures are?
7	A. I don't know what that person is
8	thinking when they write, specified
9	complications.
LO	Q. Apart from what that person is thinking,
11	if I said to you, Dr. Ghodsi, on the first
12	surgery there were other specified complications
13	of the procedure not elsewhere classified and
14	I said, can you agree with that statement, what
15	would you say?
16	MS. CLOUSE: I'm going to have
17	to object because he has to know what
18	I mean, he doesn't know what the
19	classification is to know what
20	MS. TRESL: I'm not asking him
21	I'm not asking him about the
22	classification.
23	BY MS. TRESL:
24	Q. If I said to you, Dr. Ghodsi, would you

1	agree that on the 24th during that procedure
2	there were other specified complications, would
3	you agree with that or not agree with that?
4	MS. CLOUSE: I'm going to
5	object because I don't know how he can
6	answer that.
7	A. If you put that away and ask me a
8	specific question about the surgery, I can
9	answer that.
10	Q. Would you say, Dr. Ghodsi, on the 24th
11	you went in to do the vertebroplasty, were there
12	other complications from the procedure that are
13	not classified, that you had not anticipated?
14	MS. CLOUSE: Objection.
15	A. I think a complication happened.
16	Q. I think we've established then the
17	vertebroplasty needle in your opinion is what
18	caused the dura tear. I think you said that in
19	answer to our complaint; correct?
20	A. I think that's probably what caused the
21	dura tear.
22	Q. If you would have done a CAT scan
23	immediately on the 24th, would the dura tear
24	have been picked up?

ABDI GHODSI, M.D. -- EXAM BY MS. TRESL 1 Α. No. Because? 2 Ο. A CAT scan can't see a dura tear. 3 Α. Would an MRI? Q. 4 5 A. No. So you have to see that with the leaking 6 Q. spinal fluid? 7 8 Α. Yes. So there's no imaging that can tell you 9 0. that the dura was torn? 10 I wouldn't say there's no imaging, maybe 11 Α. you can put radioisotopes into the spinal fluid 12 and watch it in time under nuclear study, see if 13 the water is going out of the sac. 14 15 Q. Back to the second surgery, page 2 of 2 and I think we've already discussed this, but 16 let me just make sure. The edges of the cement 17 were freed up, it was impossible to move the 18 cement with any type of force because of risk of 19 injury to the conus. That's from the op 20 report. 21 22 Α. Okay. 23 Ο. Top of page 2, when you went in with the idea of looking at the cement and seeing about 24

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1	freeing it up, were you literally going to just
2	try to yank it out of there or were you going to
3	try to chip away or what was your plan if you
4	you know, when you talked to Dr. Gold and you
5	said, presumably, there's 2.2 centimeters of
6	cement or less, whatever, you go in there and
7	you see it, you tell me.
8	A. I don't know if I specifically discussed
9	that, but I thought that if there was a loose
10	piece of cement and I could remove it easily, I
11	would remove it.
12	Q. So it could have just been sort of like
13	bouncing around in there sort of?
14	A. Not bouncing around, but loose.
15	Q. Kind of like a pebble that wasn't
16	adhered?
17	A. Yes.
18	Q. But when you went in, was it squished
19	that you couldn't get it out or was it
20	A. I think it was adhered to the back of
21	the dura and possibly even outside of the dura.
22	Q. So almost kind of like entwined into the
23	tissue?
24	A. Yes.

	ADDI GRODSI, M.D EAAM DI MS. IKESI
1	Q. That's correct?
2	A. Well, it may have been. I can't
3	visualize that because the conus is in the way.
4	You can't see the back of the conus.
5	Q. So when you saw that there was plenty of
6	room for the nerve roots, where were you seeing
7	that?
8	A. Inside the sac.
9	Q. Inside the conus?
10	A. No, inside the sac.
11	Q. Inside the dura sac?
12	A. Yes.
13	Q. Did Dr. Gold agree with you to leave the
14	cement alone?
15	A. Yes.
16	Q. Did you consult with anyone else about
17	the cement? Did you have did anesthesia or
18	interventional radiologist come by or did you
19	discuss it with anybody beside Dr. Gold?
20	A. Not anyone there. I may have called
21	Dr. Hitchon during the case. I'm not sure. I
22	talked to Dr. Hitchon on a couple of occasions.
23	I don't think it would have been in the
24	operating room.

ABDI GHODSI, M.D. -- EXAM BY MS. TRESL 1 0. Would it have been before or after? It may have been before. 2 Α. Did you tell Dr. Hitchon what you had 3 Ο. seen? 4 I don't remember that. I may have Ά. 5 talked to him before that case but not after. 6 7 Ο. Is it your testimony you talked to him more than one time? 8 9 Α. Yes. Can you characterize the other 10 0. conversations you had with him at all for me? 11 Α. It was basically along the same line, 12 the complication had happened, the cement had 13 leaked and what was the best course of action at 14 that point. 15 Then did you at some point describe to 16 0. him what you and Dr. Gold had seen in the second 17 surgery? 18 I don't think I did. 19 Ά. It looks like -- let's talk about two 20 Ο. issues. First, it looked like the dura tear was 21 at L-2 and the cement was at L-2. How is it 22 23 that the cement -- or let's get the CAT scan because I don't want to mischaracterize it. How 24

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1	is it that T-12 and L-1 also got involved and
2	the psoas muscle? How is it that from that one
3	what we presume is the tract leaking, you had
4	so much involvement at T-12 and L-1 or some
5	involvement at T-12 and L-1?
6	A. I'm sorry. What's your question?
7	Q. It sounds like the cement leaked from a
8	tract that you made in your opinion when you
9	adjusted the needle; correct?
10	A. The cement at the conus, yes.
11	Q. How is it that the T-12 got involved,
12	L-1 got involved and the psoas muscle got
13	involved?
14	A. I think there was some leakage into the
15	psoas muscle also. There appeared to be some
16	enhancement also at T-12 and L-1, but that could
17	have come from the injection at those levels.
18	Q. Can we agree it also could have come
19	from cement?
20	A. Cement, injections, those are cement,
21	too.
22	Q. So you are saying it could have come
23	from leakage of cement at those levels?
24	A. Yes.
	1

1	Q. And you would not have seen those on
2	fluoroscopy?
3	A. I did not see it.
4	Q. So theoretically there was leakage at
5	L-1, L-2 and T-12?
6	A. I don't think there was any much
7	leakage at L-1. I think there was some leakage
8	at $T-12$ and $L-2$ .
9	Q. So there was leakage on T-12 but you did
10	not see it on fluoroscopy?
11	A. No.
12	Q. Can you explain why you didn't see it on
13	fluoroscopy?
14	A. It was very small.
15	Q. How did the cement at T-12 and L-1
16	affect Ms. Dodd's neurological deficit or how has
17	it affected it?
18	A. I don't think it affected it.
19	Q. So it's your testimony then that the
20	neurological deficit is almost exclusively
21	happening by what happened at L-2?
22	A. She only has one nerve root deficit.
23	Q. So that same nerve root enervates the
24	bladder?

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1 No, that's a different nerve root. A. What is T-12 or L-1 -- does that affect 2 Ο. the bladder? 3 Α. No. 4 Which one affects the bladder? 5 Ο. Α. The sacral one. 6 7 What would the T-12 -- she has no Q. neurological deficits relative to T-12 or L-1? 8 Α. The only thing I have noticed is L-5, 9 which is the dorsal flexion on the foot. 10 11 Q. Okay. And the bladder dysfunction which would 12 Α. be the sacral or the conus. The conus itself 13 14 can cause a bladder dysfunction. So the cement that's butting up against 15 Q. the conus at L-2 could be causing the bladder 16 dysfunction? 17 I don't think it's the cement butting up Α. 18 against it necessarily. 19 20 Well, whatever is going on at L-2 Ο. against the conus, that could explain the 21 22 bladder as well as the dorsal flexion? 23 Ά. Yes. If I can refer you to the CAT scan of 24 Q.

1	the 25th, page 1, the discussion about T-12.
2	How am I to understand the language, does cause
3	mass effect upon the thecal sac?
4	A. I'm sorry. What paragraph are you
5	referring to?
6	Q. It would be the third one down, although
7	the second one is more like a sentence, three,
8	there and at.
9	A. Well, anything that kind of pushes the
10	sac over can cause mass effect. That's what I
11	mean by that. Remember she had got some dye but
12	dye can look like cement, but it doesn't
13	necessarily have to be cement.
14	Q. So on page 2 where it says, abnormal
15	areas down at the bottom under the impression
16	no. 2. At T-12 there is moderate mass effect,
17	abnormal areas of decreasing low intensity seen
18	anterior to the thecal sac, posterior to T-12
19	and L-1.
20	A. Are you on page 1?
21	Q. Page 2, second paragraph from the
22	bottom.
23	A. Is that the MRI you are reading or the
24	CT?

1	Q. MRI.
2	A. Go ahead.
3	Q. So these abnormal areas of decreased
Ą	signal intensity may be cement, may be dye or
5	may just be the mass effect of the cement
6	however you want to characterize it pressing
7	against the conus?
8	A. Well, those are two different things.
9	The abnormal area of enhancement may be cement
10	or dye.
11	Q. So it is possible that there is cement
12	at T-12 also?
13	A. Sure.
14	Q. So it's possible based on CT and
15	MRI that there was leakage of cement at L-1, L-2
16	and T-12?
17	A. I didn't think it was at L-1, but I
18	thought there was there may be some at T-12.
19	Q. Well, the MRI includes the same thing
20	for T-12 and L-1, so that's why I'm suggesting
21	that, but I don't want to put words into your
22	mouth on the MRI.
23	A. You want me to comment on the
24	radiologist or do you want me to say what my

1	opinion is? I thought that there was some
2	enhancement, this increased density at T-12.
3	Q. How about at L-1?
4	A. I thought there was very minimal.
5	Q. Can we agree that following Ms. Dodd's
6	surgery, she had neurological deficits?
7	A. Yes.
8	Q. Can we agree that you did not do a CAT
9	scan on January 24?
10	A. Yes.
11	Q. You are not able to sight me to any
12	articles to say it's okay in terms of cement
13	leakage to wait; is that correct?
14	MS. CLOUSE: Objection, asked
15	and answered.
16	A. I think the one article from South
17	Korea, they wait.
18	Q. Do you rely on
19	A. They cited a 30 percent cement leakage
20	and I didn't see them rushing in all 30 percent
21	of the cases and operating on them.
22	Q. Did you see them rushing in on the cases
23	where there was cement leakage and neurological
24	deficits?

1	A. I don't recall that.
2	Q. So they may have about, but you don't
3	recall?
4	A. Yes.
5	Q. Would you be kind enough to give your
6	counsel the name of that article and have her
7	give it to me?
8	A. I'll have to find it, yes.
9	Q. When you reviewed Greenberg for I
10	think you reviewed it for today or you have
11	reviewed it recently did he discuss or
12	she discuss neurological deficits when you
13	know there's cement leakage in terms of what to
14	do?
15	A. No.
16	Q. There's no discussion of that?
17	A. There's discussion of complications, but
18	they don't discuss what to do.
19	Q. The extensive discussion you had with
20	Ms. Dodd, I believe this was that would be
21	progress note 1/26 actually, you know, before
22	we do that one at 22:30, let's do the progress
23	note at and I'm sure the times aren't
24	correct, but they are both dated 1/26, one is

<pre>Hictated transcribed at 17:53. The other one is transcribed at 22:30, so I presumably these notes were made like an hour or two before. I'm going to assume. You dictated them sooner than 17:53? A. That may have been the right time. I'm not sure. Q. Either way. What happened between the two I mean, it's a relatively short period of time and you say A. I think I may have gone around it and finished my other day's work and then gone back it seems. Q. But it sounds in this 17:53 note as if you've given her options and you are kind of reighing and balancing what to do and so is she,</pre>
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<ul> <li>A. I think I may have gone around it and</li> <li>Einished my other day's work and then gone back</li> <li>It seems.</li> <li>Q. But it sounds in this 17:53 note as if</li> <li>you've given her options and you are kind of</li> <li>weighing and balancing what to do and so is she,</li> </ul>
Finished my other day's work and then gone back at seems. Q. But it sounds in this 17:53 note as if you've given her options and you are kind of weighing and balancing what to do and so is she,
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you've given her options and you are kind of weighing and balancing what to do and so is she,
weighing and balancing what to do and so is she,
then you come back let's just say four hours
later for lack of a just to pin it down
somewhat. What changed your mind then that you
say after extensive discussion, the patient
vishes to proceed with operative intervention.
What caused you to come back four hours later
and the decision was made between and you
1s. Dodd?

-	ADDI GNODSI, M.D. EAAM DI MS. IKESI
-	A. I think she was really not sure at all
2	that she wanted to do anything at this point.
3	Q. This point being the 17:53?
4	A. Yes. I think she was leaning I
5	guess I can't even say that for sure, but I
6	thought she wanted she was considering the
7	surgery and then later that night she made up
8	her mind that she wanted to go ahead.
9	Q. It's your testimony that she discussed
10	it with her family or not because it says here
11	that
12	A. I don't know if it was her husband or
13	not. I thought it was her husband but later on
14	it may not have been her husband.
15	Q. Do you remember that discussion when you
16	came back and everyone in the room said, yes,
17	we've agreed to have the surgery?
18	A. Is that this night?
19	Q. Right. Do you remember that discussion?
20	A. Not specifically.
21	Q. Were you surprised that four hours later
22	she had made that decision?
23	A. It was kind of on a see-saw. At one
24	time she was leaning towards not having it and

1 one time she was leaning toward it. I wouldn't say I was completely surprised. 2 So it was really Ms. Dodd's decision to 3 Ο. proceed with the second surgery at 22:30? You 4 left her the options, told --5 Yeah, we discussed the options. 6 Α. I told her that I was concerned that we could go back 7 in and she could be worse, but I outlined all 8 the benefits and risks and yes, it was her 9 decision, but I assume she made it with her 10 11 family. When you say in the second paragraph, 12 Ο. one option -- at the 17:53 -- one option would 13 be to proceed with surgical intervention for 14 15 decompression of the canal and removal of the cement. Did you believe at that time since you 16 told me that you had discussed with Professor 17 Hitchon? 18 19 Α. Yes. Did you still believe at that time that 20 Q. surgical intervention may have been helpful? 21 I thought I had a good chance -- I Α. 22 23 thought I had a chance of helping her, yes. Did you urge her to do that? 24 Q.

No, I didn't urge her either way. ] Α. It was her decision? 2 Ο. Yes. 3 Α. I may be wrong but did Professor Hitchon Ο. 4 not tell you that he thought the damage was 5 already done and if you went back in for б 7 decompression it likely wouldn't have changed her outcome? 8 Α. He didn't think it would, but he told me 9 to present the options to the patient. 10 But yet it says here that one option 11 Ο. would be to proceed with surgical intervention 12 for decompression of the canal. So you told her 13 that and did you tell her that you thought it 14 would likely help or not help? 15 I said I didn't know if it would help. 16 Α. 17 **Q**. It was just a shot, just to try it. Uh-huh. 18Α. That's a yes? 19 Q. 20 Α. I thought it was an option. Even though Professor Hitchon didn't 21 Q. think it would make a difference? 22 23 Α. He told me to discuss the different options and see what the patient --24

1	Q. So he just told you that you should
2	present an option to her that he thought really
3	had no success of changing her outcome?
4	A. He thought the injury was done at the
5	time of the heat, so he didn't think that the
6	decompression would necessarily help but people
7	come in with blood clots of the brain and we
8	don't necessarily think it's going to make them
9	any better but the family wants us to try
10	everything we could. There are a lot of
11	different situations where we abide by the
12	families wishes. I really myself didn't know
13	whether it would help or make her any better.
14	Q. Did it help her any? Did it make her
15	any better?
16	A. I think it may have helped some of her
17	pain, but I don't think neurologically it made a
18	difference. But how can you tell, I mean, she's
19	recovered some of her function and you can
20	always guess if I hadn't done anything she would
21	be the same now as if I had done the surgery.
22	If I had left things alone and not gone in, she
23	may be the same as if I had gone in. My gut
24	feeling is that she probably would have been the

	ABDI GHODSI, M.D EXAM BY MS. TRESL
1	same with or without surgery, the second
2	surgery. That's my gut feeling.
3	Q. And you told her that, but you told her
4	it was her choice?
5	A. My gut feeling right now is back then
6	I wanted to decompress, I think. If I remember,
7	I wanted to go back in because I wanted to
8	intuitively see if I can if the cement is
	-
9	against the conus or if there's not enough room
10	for the conus, give it more room to see if that
11	would help, but I was scared of potential
12	complications with the second surgery, obviously
13	much more than the first surgery.
14	Q. And you did not end up having to fuse
15	her the second surgery; correct?
16	A. No.
17	Q. Why did you not fuse her?
18	A. I think it would have added a sufficient
19	amount of time of surgery. I think I checked
20	her during the operation, did not feel she was
21	unstable. I thought we could get her by with a
22	brace and if necessarily if we needed to fuse
23	we could do it at a later time, a more elective
24	time where there was less chance of something

1 going wrong. 2 Q. Is fusion an option to her even now? A. Yes. 3 Would that take away her --Ο. 4 I think it would help some of her pain. 5 Α. I believe it may help some of her pain. 6 7 Would it help her foot drop? Ο. No, I don't think it would help her foot 8 Α. I think her bladder -- all I can tell is 9 drop. from the May 24 note she was doing very well as 10 far as the bladder. 11 She has to catheterize herself every day 12 0. and has since January --13 I don't know that. The last note I have 14 Α. 15 is from Dr. Steiger, which is in August 2002 and 16 then the note from me seeing her in May it says that she's hardly ever catheterizing. Why did 17 18she get worse? That needs to be figured out. Here she is telling me in May that she is doing 19 very well and she's hardly catheterizing. 20 Q. May 2002? 21 In the last clinic note. Α. 22 I thought the Interrogatory said the 23 0. 24 last time you saw her was April 24?

	ABDI GRODSI, M.D. EAAM DI MS. INESH
1	A. That's what I mean, April. April 24,
2	2002, I saw her in clinic and but that
3	bladder function was absent following surgery
4	has returned. She is now able to urinate and
5	have bowel movements with good control.
6	However, she does have some difficulty at night
7	when she has some dribbling especially between
8	the hours of 1:00 and 4:00. This is I'm
9	going from what she is telling me, that she is
10	doing well with the bladder and she's got good
11	control of it. If she's catheterizing now, did
12	something get worse for some reason and I think
13	that's something that a urologist needs to
14	see her for that. I don't have any note from
15	Dr. Steiger after April 24 so has she seen a
16	urologist, that's the question.
17	Q. I think your counsel has something but
18	it took me a long time to get everything to
19	them.
20	(Break.)
21	BY MS. TRESL:
22	Q. Can we agree that the outcome in this
23	case is not what you had planned?
24	A. I think we have achieved the

	ABDI GRODSI, M.D. EAAM DI MS. INISH
1	vertebroplasty. I think we have bolstered the
2	bone out. I don't think she developed any
3	kyphosis up to the time I saw her in April, so
4	we have reached some of the goals, but we had a
5	complication.
6	Q. Can we agree that the outcome of the
7	case is not what you had planned?
8	A. Yes.
9	Q. Can we agree that Ms. Dodd experienced
10	complications secondary to the vertebroplasty?
11	A. Yes.
12	Q. My understanding is just let me be
13	sure you've never had this sort of
14	neurological deficit associated with the
15	vertebroplasty that you've done; correct?
16	A. Yes.
17	Q. So can we agree or not agree that
18	Ms. Dodd's urinary retention is due in part from
19	the complications from the vertebroplasty?
20	A. The urinary retention she had right
21	after the procedure.
22	Q. And/or continuing?
23	A. Again, my last impression is that her
24	urinary retention was resolved.
	<u> </u>
	ABDI GHODSI, M.D EXAM BY MS. TRESL
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1	Q. If you take my word for the fact that
2	the urinary retention was not resolved and she's
3	self-cathing every day and I did give your
4	counsel
5	A. I would need to know why she has
6	relapsed.
7	Q. So you can't agree or disagree that
8	it's
9	A. I can agree that the urinary retention
10	right after the surgery was probably related to
11	the
12	Q. And the fact that she needed a Foley put
13	in and remained in for quite some time my
14	memory says about the middle of March was
15	that a complication of the surgery or more
16	
17	A. Again, I can't comment on the Foley. I
18	usually like to get the Foley out right away and
19	do straight cathing, but the urinary retention I
20	think was due to complications from the surgery.
21 22	Q. If you take my word for the fact that she has been treated with a lot of urinary tract
23	infections from January to current just take
23	my word for that, please is that a
24	my nora for that, prease is that a

1	complication of the surgery?
2	A. Urinary tract infections can be avoided
3	with a technique.
4	Q. So your testimony is that it is not a
5	complication of the surgery?
6	A. Urinary tract infections, no.
7	Q. Can we agree that the foot drop is a
8	complication from the surgery?
9	A. Yes.
10	Q. Can we agree that the lower leg
11	extremity weakness is a complication from the
12	surgery?
13	A. The left lower extremity weakness? Are
14	you talking about the foot drop?
15	Q. The whole lower leg is weak and she
16	can we agree that when you first saw her before
17	her surgery she did not need a walker to walk?
18	A. Yes, she didn't need a walker, not in my
19	office anyway when I saw her.
20	Q. Can we agree that after the surgery she
21	did need a walker to walk?
22	A. What period of time are you talking
23	about?
24	Q. From January 24 when she was stable
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1	enough to get up.
2	A. Again, I can't comment about that
3	because I haven't seen her since April and I
4	only remember in April if she had a walker when
5	she came into my office or not.
6	Q. If she did have a walker when she came
7	in your office in April, can we agree that that
8	was a change from the vertebroplasty?
9	A. No, I can't agree to that.
10	Q. Can we agree that if the cement leakage
11	had not occurred that she would not have
12	developed foot drop?
13	A. I can't 100 percent agree with that
14	because potentially a needle can cause the same
15	thing. Remember I said the needle tract had
16	gone medially, could the needle have touched the
17	conus and caused that injury, yes, it's
18	possible. It may be that the injury wasn't from
19	the cement, it was from the needle.
20	Q. Do you have an opinion as to which is
21	more likely?
22	A. I think the cement is more likely.
23	Q. Was there anything available to you when
24	you were doing the procedure to have minimized

1	that risk of that needle re-positioning in the
2	tract and is there something you could have done
3	differently so that it would not have happened?
4	A. I have been thinking about this a lot.
5	I don't know what I could have done
6	differently. I can't think of anything I could
7	have done differently.
8	Q. Are you familiar with fenestration,
9	prophylactic fenestration?
10	A. Of what?
11	Q. When you do the vertebroplasty?
12	A. Fenestration what?
13	Q. Almost doing an open laminectomy when
14	you do the vertebroplasty so you can see more
15	what you are doing.
16	A. I'm not familiar with fenestration. I'm
17	familiar with doing a laminectomy. I'm familiar
18	with opening up. I've done open
19	vertebroplasties.
20	Q. When do you do open vertebroplasties?
21	A. When I have other goals in mind, too,
22	with the surgery.
23	Q. Have you not read any of the literature
24	then that discusses because of the risk of

1	
1	cement leakage, the recommendation of open
2	fenestration?
З	A. I'm not familiar with that literature.
4	Q. Do you remember discussing these options
5	prior to Ms. Dodd's having the vertebroplasty
6	with anyone but Ms. Dodd, the complications of
7	the vertebroplasty?
8	A. Sorry. Do I remember discussing the
9	complications?
10	Q. The surgery and the complications, the
11	risks, the thing that you say to patients before
12	vertebroplasty. I believe you said there was
13	no one else in the room on the September 19 and
14	December 19.
15	A. I don't think there was anybody else in
16	the room, no. That doesn't answer your
17	question. Your question was something else,
18	though?
19	Q. You told me that you explained the risks
20	of the vertebroplasty to Ms. Dodd on the
21	September 19 and December 19, and I want to make
22	sure that it's your testimony that no one else
23	was in there when you were discussing the
24	vertebroplasty and the risks.

1 Α. I don't believe there was anybody in 2 there. Are you critical of anyone else that has 3 Ο. managed Ms. Dodd's care? 4 A 5 No. Have you discussed this case with 6 Ο. Dr. Krupedev? 7 Α. Dr. Krupedev consulted me on Ms. Dodd 8 when she was hospitalized for another reason and 9 I went and saw her and we may have talked. 10 Was he not the referral, though, that 11 Q. 12 sent Ms. Dodd to you initially? I believe he was the referring 13 Α. physician. I think his name is on the first 14 15 letter. Yes, his name is on the letter so he referred her to me. 16 Do you remember any discussions you had 17 0. with Dr. Krupedev about the cement and the foot 18 drop and what happened during the surgery? 19 I don't think I ever discussed that with 20 A him. 21 Did you discuss this case with 22 0. 23 Dr. Krupedev, Ms. Dodd and her care? Some aspects of her care. I think he 24 Α.

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1	was consulted on her afterward to take care of
2	some of the medical problems.
3	Q. But in terms of the foot drop and the
4	cement leakage, you never discussed that with
5	him?
6	A. I never did.
7	Q. Did you explain to Ms. Dodd what you
8	thought had happened? I mean, after the
9	surgery, after she was stabilized, let's say
10	when you saw her the last time in the office in
11	April. At any point did you explain all of this
12	to Ms. Dodd?
13	A. On numerous occasions I explained to her
14	after the surgery what had gone wrong.
15	Q. What did she say?
16	A. I think she appeared to be very
17	understanding, almost consoling at times. I
18	mean, she understood what had gone wrong. I
19	felt that she understood that. I felt that she
20	made a good decision in terms of she weighed all
21	the options and other than that, I can't comment
22	on she didn't come out and say that I'm happy
23	or sad or mad. She didn't say anything like
24	that. I mean, obviously she was upset and she

1 was -- but I think she understood what had happened and I explained that to her several 2 times. 3 Do you recall what she said at all that 4 Ο. you know that she understood what had happened? 5 No, but just some of the questions she 6 Α. would ask in terms of, what are the options, 7 8 what would you do next about the fusion, whether we need to do a fusion or not, whether I should 9 try to take the cement out or not. Those are 10 things that we did discuss and she would ask 11 12 appropriate questions. Do you have any opinion why you haven't 13 0. seen her since April 24? 14 I thought we had a very good 15Ά. No. repoire. I thought we had a very good 16 relationship even after the complications. We 17 spent a lot of time together and we talked about 18 I set her up an appointment in July, on 19 it. July 24 and she cancelled so that means she must 20 have called to cancel. I don't know, sometimes 21 patients cancel for reasons and they 22 reschedule. So no, I guess that's the last time 23 we heard from her. 24

1	Q. No one from your office has called to
2	follow up with her at that time?
3	A. Usually if a patient doesn't show up for
4	a clinic we call or we send a letter out, please
5	reschedule your appointment.
6	Q. Do you know if a letter was sent or if
7	someone called?
8	A. No, I'm not sure.
9	Q. If you had another patient today that
10	you did a vertebroplasty on and you suspected
11	that there was cement leakage, a very similar
12	scenario to Ms. Dodd and they recovered and they
13	had foot drop or neurological deficit, would you
14	change at all the approach in the first 24 hours
15	post-op that you did with Ms. Dodd?
16	MS. CLOUSE: Objection.
17	A. I think my gut feeling tells me that it
18	doesn't matter once the injury happened, it
19	happened. Nothing I could have done after that
20	that could have changed things.
21	Q. So even to this day if a patient
22	presented with neurologic deficit following a
23	vertebroplasty with a suspicion that cement
24	leaked, you still would not order a CAT scan or

MRI emergently?

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MS. CLOUSE: Objection. You can answer.

The question of getting a study is what 4 A. you are going to do with it. A study doesn't do 5 anything by itself. A CT scan is not going to 6 7 cure anything. It's what you are going to do with that information. If I get that CAT scan 8 and it shows the same thing as Ms. Dodd I would 9 10 again present the options to the patient as far as what to do. Now, if there was so much cement 11 in there that I thought the conus was just so 12 compressed that you had no room or if the 13 patient was getting worse neurologically, then I 14 would urge the patient to go ahead with the 15 16 surgery. I would strongly urge the patient. Q. So is it your testimony then that you 17 still would not do a CAT scan if you had a 18 patient similar to Ms. Dodd tomorrow? 19I

20 understand it depends on what you are going to
21 do with the imaging.

A. If I did a vertebroplasty tomorrow and I
 thought cement had leaked --

24

Q. Correct, and the patient woke up with

neurological deficit, would you --1 2 Α. I would do a CAT scan. So your approach has changed in that now 3 Q. you would more likely --4 Α. No. the fact was different. Back 5 No. then I didn't know there was cement leakage in 6 the canal. You are saying if you know there was 7 cement leakage in the canal. 8 I didn't say cement leakage in the Q. 9 I said cement leakage, at least that's 10 canal. what I intended to say. If you had a patient 11 that you suspected had cement leakage because in 12 13 your first operative note --It makes a difference. If the cement 14 Α. leakage is in the canal, then I would get a CAT 15 16 scan. But if it was cement leakage and you 17 0. weren't sure where it went but you thought it 18 went to the psoas muscle --19 If I thought there was leakage in the 20 Α. psoas, no. Psoas leakage can be very painful 21 and cause weakness and stuff, but it's pain 22 related. See, you have to kind of determine 23 24 whether it's a real weakness or it's a pain-

-	ADDI GIODSI, M.D. EAAM BI MO. INESH
1	related weakness.
2	Q. So you would get a CAT scan emergently
3	following surgery if you suspected that cement
4	was in the canal, but if you thought it was in
5	the psoas muscle or weren't sure that it had any
6	suspicion of it in the canal
7	A. I think we're speculating, but I think
8	the exam would be very important. The exam of
9	the patient would be very important.
10	Q. We are speculating, but I'm trying to
11	see if your approach would be any different now
12	than it was with Ms. Dodd.
13	A. I can't tell you. If it happens I'll
14	have to evaluate that and see what her exam is,
15	you know. If it's a conus if it's a cauda
16	equina syndrome, if they are having complete
17	paralysis in the legs, I would emergently get a
18	CAT scan, yes.
19	Q. If it was the symptoms that Ms. Dodd was
20	having and
21	A. If it was just one nerve root involved
22	and I wasn't sure if it was the needle that
23	caused it or if it was just inflammation or
24	something like that

ABDI GHODSI, M.D. -- EXAM BY MR. KISH

1 Or if it was cement? 0. A. Or it was cement, I think if I suspected 2 3 there may be cement in the canal, I may get a CT. 4 Q. So maybe it has changed a little bit 5 then since Ms. Dodd? 6 Again, on Ms. Dodd I didn't know there 7 Α. was cement in the canal. The CT surprised me 8 somewhat. 9 10 Q. Because? Because there was cement in the conus --Α. 11 by the conus. It really did surprise me. 12 MS. TRESL: I think we're done 13 unless you have anything. 14 MR. KISH: Just real quickly, 15 just so I make sure I'm clear on it. 16 EXAMINATION 17 BY MR. KISH: 18 19 Dr. Ghodsi, I'm Bob Kish. We were Q. introduced earlier. I'm here on behalf of 20 Marietta Memorial Hospital. You were asked not 21 too long ago if you were critical of anyone 22 else's care of Ms. Dodd and you said, no. Am I 23 correct to assume that you are not critical of 24

ABDI GHODSI, M.D. -- EXAM BY MR. KISH

any of the care of any employees at Marietta Memorial Hospital? I'm not critical. Α. MR. KISH: That's all I wanted to clarify. Thank you. MS. CLOUSE: Dr. Ghodsi, you have the right to read this transcript. THE WITNESS: Yes. (The deposition of ABDI GHODSI, M.D., concluded at 12:43 p.m.) 

STATE OF WEST VIRGINIA, To-wit:

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I, Annette R. Lovejoy, a Notary Public and
Certified Court Reporter within and for the
State aforesaid, duly commissioned and
qualified, do hereby certify that the deposition
of ABDI GHODSI, M.D., was duly taken by me and
before me at the time and place specified in the
caption hereof.

I do further certify that said proceedings 9 10 were correctly taken by me in stenotype notes, that the same were accurately transcribed out in 11 full and true record of the testimony given by 12 said witness. I further certify that I am 13 neither attorney or counsel for nor related to 14 or employed by, any of the parties to the action 15 16 in which these proceedings were had, and further I am not a relative or employee of any attorney 17 or counsel employed by the parties hereto or 18 financially interested in the action. 19

20 My commission expires the 23rd day of 21 September 2012. Given under my hand and seal 22 this 12th day of August 2003.

> Annette R. Lovejoy Notary Public Certified Court Reporter

7.24.03

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