

Klein Trial Transcript, Dr. DiGiacinto.txt

1 Q We are going to turn our attention then, sir,
2 to the next study which was, I believe, in August of
3 '04.

4 During the course of your first exam of
5 Mr. Klein you took a look at other films that he had in
6 August of '04. Is that correct, sir?

7 A Yes.

8 Q And those were also MRI's of the cervical
9 spine; correct, sir?

10 A Yes.

11 Q Sir, I am going to hand those films to you
12 and ask that you please demonstrate to the jury what
13 those MRI films showed.

14 A I am going to first put up Exhibit 25-B. And
15 we are again looking at the side view, what we call a
16 sagittal view of the cervical spine.

17 Is there a question? I am sorry.

18 Q The question was, sir: What, if anything,
19 did this study reveal to you?

20 A I am sorry. We are again looking at the side
21 view, and we are seeing a couple of things. The first
22 thing I am noticing is that there is an increase in the
23 angulation at C-4-C-5, so that between the fourth and
24 the fifth bone it appears that the neck, which was a
25 little straightened out, actually now went a little bit

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1 more forward. We use the term kyphosis, which is the
2 bending forward. And that appearance is very much what
3 I think I was seeing clinically when the patient came
4 and I said the neck was somewhat bent forward.

5 so we are seeing this kyphosis. We are
6 also seeing that the defect pushing back from C-4-C-5
7 actually looks a little bit increased. As we run the
8 different images, we continue to see abnormalities at
9 C-4-5 and C-5-6. So the slight change in -- it is not
10 overwhelming, but I think it is real, is that there is
11 an increased angulation and more of a defect seen at
12 C-4-C-5.

13 Now I am going to move to Exhibit 25-D.

14 Q Can I ask you a question before we do that,
15 sir?

16 A Certainly.

17 Q The kyphosis. What causes the neck to go
18 forward like that?

19 A Well, obviously we can do it voluntarily, but
20 we also find that our neck assumes the position that is
21 most comfortable. So that when a patient walks around
22 with the neck bent forward, if you ask him why are you
23 doing that, most of the time they will say what do you
24 mean. You say, well, your neck is bent forward,
25 straighten it out, and they will be uncomfortable

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1 straightening it out because it is the position of less
2 comfort.

3 So the kyphosis, which is the bending
4 forward, is the position assumed by the patient because
5 it is a more comfortable position.

6 Q Sir, I am going to show you a blowup of some
7 of the slices of that MRI film. I am going to ask
8 you --

9 A Klein Trial Transcript, Dr. DiGiacinto.txt
 Can I bring it over here?

10 Q Sure. 26.

11 THE COURT: No, let the jurors see.

12 Keep it straight.

13 Jurors at the end, can you see this?

14 Okay? Just a shift. There you go.

15 Q Is the kyphosis shown on this blowup, sir?

16 A Yes. You can see -- let me make sure what we

17 are looking at first.

18 8/24/04, Alison Klein. You are

19 seeing --

20 THE COURT: Stand to the side there,

21 Doctor. Use the pointer.

22 A You are seeing between the fourth and the

23 fifth vertebrae that there is a curve here and then it

24 cants forward or bends a little bit forward, and that's

25 the kyphosis I am talking about. We also can see the

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1 disc material pushing out there. This was the image I

2 think I centered on a little more. And, again, it

3 shows pretty much the same thing at C-4-5.

4 Q You said there is an increase in the defect

5 at C-4-5; right?

6 A It appears, in comparing one to the other, it

7 is slightly more prominent than it was. We are going

8 to look at another image I think in a moment. I can

9 talk about that a little more.

10 Q Thanks, Doctor.

11 A I am now going to put up Exhibit 25-B. I have

12 to take off my glasses to figure out what I am doing.

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13 Q Do you wear your glass during surgery, sir,
14 or do you take them off?
15 A I wear magnifying loops during surgery.
16 We are now looking at another MRI series
17 of the patient. This is the similar view to the one we
18 looked at earlier. This is now the cross-sectional
19 view again.
20 I am looking at C-5-6, the lower one of
21 the two we talked about. And again, there is a disc --
22 there is the so-called disc osteophyte complex, but
23 pretty significant narrowing of the neural foramen.
24 And as I move up to C-4-5 I still see that disc
25 material narrowing the foramen at that level.

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1 I am also seeing at C-4-5 that there
2 appears to be a little bit more of a ridge concentric
3 to the left side than I was seeing on the last image.
4 I mentioned I thought there was a slight
5 increase in the amount of pathology at C-4-5. I think
6 this again shows that the spinal canal is just a little
7 bit narrow, and left side more than right side there is
8 narrowing of the so-called neural foramen we talked
9 about earlier.
10 Q Is that increase in the ridge at C-4-5, is
11 that consistent with the history given to you and
12 consistent with your opinion that a disc herniation was
13 caused at C-4-5 by this accident?
14 A Yes.
15 Q Share with us how that is.
16 A I think the fact we are seeing increased

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17 angulation there, we are seeing an increase in probably
18 what now is becoming a disc osteophyte complex here.
19 It means that there is an active process at the C-4-C-5
20 level. It appears a little bit worse than it did on
21 the earlier study as the patient remains and gets more
22 symptomatic, and it is a manifestation of the process
23 that began with the accident and is progressing.
24 Q Is it fair to say that more discal material
25 is apparently herniated or outside where it should be

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1 in this August '04 study as opposed to the 6/18/03
2 study?

3 A It appears that that is true. And again, it
4 is difficult on strictly an MRI scan to differentiate
5 between just disc and disc osteophyte, but it appears
6 especially at C-4-5 that there is a degree of increase
7 in the pathology especially of the foramen with
8 narrowing of the neural foramen.

9 Q Now, is that progression of the extrusion of
10 the disc material, is that consistent with your opinion
11 concerning that this accident caused the disc
12 herniation at C-4-5?

13 A Yes.

14 Q Share with us how that is.

15 A Well, the evidence that we see from the first
16 study is that there was an injury, and it seemed to be
17 most acute at C-4-5. And then we talked about the
18 possible change at C-5-6, but the C-4-5 appears more
19 acute. That level seems to be progressing more than
20 the C-5-6 level. Again, giving credibility to the fact

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21 that that was injured, it is now getting worse over
22 time.
23 Q Doctor, we are going to be done with the
24 shadow box for a second, but I am going to ask you,
25 with the Court's permission, to still stay down because

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1 I am going to be using the model.
2 After you reviewed the films of
3 Mr. Klein and conducted the the physical exam and took
4 the history --
5 A Keep going.
6 Q -- did there come a time --
7 THE COURT: Let's hit the other light,
8 please.
9 Q -- that you discussed with him what you
10 believed the nature of his problem was?
11 A Yes.
12 Q Can you share with us what you discussed with
13 Mr. Klein?
14 A Shall I stay here, sir?
15 Q Yes, sir.
16 A I felt that the patient suffered from disc
17 pathology at C-4-5 and C-5-6. I felt that that was the
18 cause of the discomfort that the patient was having,
19 although I did suggest that the patient have further
20 evaluation by an orthopedic surgeon to make sure that
21 the shoulder discomfort was not coming from the
22 shoulder primarily.
23 There is always a little overlap in
24 symptoms. The C-4-5 disc commonly compresses the C-5

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25 nerve root. The C-5 nerve root serves the region of

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1 the shoulder, so if you irritate that root you will get
2 shoulder pain. But a patient who has trouble moving
3 the shoulder and who is said to have some abnormality
4 on shoulder MRI scan may also be deriving some symptoms
5 from shoulder pathology.

6 So as I discussed with Mr. Klein at the
7 time, I felt that there was significant pathology in
8 this cervical spine at C-4-5 and at C-5-6 to explain
9 the neck position, the neck pain and the discomfort
10 into the arm. I did, however, want to have an opinion
11 again from an orthopedic surgeon saying I don't think
12 the shoulder is a major contributor.

13 Once we had that discussion and if that
14 issue was cleared up, then I think an option in terms
15 of treatment would be to have an operation on the neck
16 to relieve pressure on the nerves at both the C-4-5 and
17 C-5-6 level, and that that specific operation would be
18 an anterior, coming from the front of the neck,
19 cervical discectomy, scraping the disc material out to
20 a very significant degree, interbody fusion by putting
21 a bone plug in where we scrape the disc out, and
22 anterior plating, putting a cervical plate on the
23 spine.

24 Q At some point after your initial consultation
25 with Mr. Klein was the issue of the shoulder

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1 contributing to this pain syndrome, was that clarified?
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2 A I did request that Mr. Klein go back for
3 orthopedic evaluation, and it was decided on that
4 consultation that there was no major contribution and
5 no pathology that warranted any specific treatment with
6 reference to the shoulder.

7 Q At some point did you have a discussion, in
8 addition to what you just told us about how the
9 procedure is performed, with Mr. Klein about the
10 procedure, its risks and its hoped-for benefits?

11 A Yes.

12 Q Can you share with us the sum and substance
13 of that discussion?

14 A I told the patient that I felt that there was
15 a reasonable probability that the discomfort and
16 trouble he was having with the neck was coming from the
17 pathology at C-4-5 and C-5-6. I felt that there was a
18 reasonable probability that performing the surgery
19 would, number one, relieve pressure on the nerve and,
20 number two, diminish the amount of the patient's pain
21 to a significant degree, to a point where I like to be
22 able to say to the patient -- 80 percent of patients
23 who have this operation say they are happy they had it.
24 That doesn't necessarily mean that a hundred percent of
25 the pain is gone because that is not usually the

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1 outcome, but that there is enough pain relief so they
2 can say it is not an issue in my life, I can get back
3 to normal now.

4 Q Sir, did you discuss any risks that might be
5 associated with the surgery?

6 A I would discuss with every patient with this
7 type of operation a number of risks: You are having an
8 operation, it involves an incision in the neck, it
9 involves dissection past a number of important
10 structures, including the trachea or the breathing
11 tube, the esophagus or the swallowing tube. We are
12 near the region of the vocal cords, we are near the
13 carotid artery, we are near, when we take the disc out,
14 the spinal cord and the nerves that are exiting the
15 spinal cord. It is possible to damage any one of those
16 structures.

17 It is also possible to develop bleeding
18 in the wound which would cause something called a
19 hematoma. If it is big enough, it could compress the
20 breathing or the swallowing tube. It might even
21 require reoperation. There is also a risk in any
22 operation of infection, and that's a possibility we
23 have to deal with.

24 So those probably are the major
25 complications that I talk about, which run from

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1 something very minor to the loss of all neurological
2 function. So it is a pretty broad spectrum.

3 Q The loss of all neurological function in
4 layperson's terms, that means paralysis?

5 A Would be paralysis, yes.

6 Q I want you to assume that there is going to
7 be testimony in this trial from Mr. Klein that he was
8 afraid of paralysis prior to this surgery being
9 performed.

10 Is that consistent with any discussions
11 you had with him?

12 A Well, it certainly was part of the
13 discussion, that there is no way I can talk to any
14 patient about this operation and avoid saying that one
15 of the potential though incredibly uncommon risks would
16 be paralysis.

17 Q So it is not common but it is possible.

18 A Yes.

19 Q Sir, did there come a time after this first
20 consultation with Mr. Klein that a decision was made by
21 him to go forward after discussing it with you?

22 A Yes.

23 Q And does your chart indicate whether that
24 took place during an office visit, or during a
25 telephone consultation or something else?

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1 A Well, we had discussed the surgery on our
2 first visit, and then there was a phone consultation
3 that I had with the patient, at which time we again
4 discussed the surgical procedure. And I am not sure if
5 at that time or sometime between then and when we
6 performed the surgery he made the final decision to go
7 ahead.

8 Q Sir, I want you to assume that in evidence
9 there are records from a Dr. Shiau, a Dr. Klein and a
10 Dr. Bitan, all spinal surgeons, indicating that
11 Mr. Klein needed surgery. Would you agree with those
12 gentlemen?

13 A Yes, I would.

14 Q Sir, did there come a time that you performed
15 the surgery upon Mr. Klein's cervical spine?

16 A Yes.

17 Q And, sir, where did that surgery take place;
18 at what hospital?

19 A At Roosevelt Hospital on Tenth Avenue in New
20 York City.

21 Q Sir, during the course of that surgery, was
22 anesthesia administered to Mr. Klein?

23 A Yes.

24 Q What type anesthesia, sir?

25 A General endotracheal anesthesia, meaning the

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1 patient was completely asleep, he had a breathing tube
2 going down into his lungs and we had him under
3 completely controlled ventilation.

4 Q Sir, can you share with the jury, first
5 utilizing the model in front of you, what you did
6 during the surgery, and then we are going to look at
7 some postoperative films to show the hardware, sir.

8 A Yes. The operation, as I think I started to
9 say, involves an incision in the front of the neck.
10 That's the anterior component. That's through skin.
11 And there is a layer of muscle called the platysma
12 muscle which runs under here.

13 Once we are through that we actually use
14 mostly blunt dissection to find an anatomical plane
15 where we push the sternocleidomastoid muscle, which is
16 a big muscle in the trachea and esophagus, to the
17 middle and to the side, so we are basically creating a

18 tunnel which is almost in the midline -- it is a little
19 bit off the midline -- so that we have a good view of
20 the anterior portion of the spine.

21 Q Anterior means front; right?

22 A Front. Correct.

23 we take x-rays with a little marker on
24 the skin before we start and another x-ray with a
25 marker right on the spine to be sure we are at the

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1 correct levels. Once we get to and identify the
2 correct levels to C-4-5 and C-5-6, we have a pretty
3 good view of those, we put a special retractor in that
4 holds the muscle off to either side. So I am looking
5 straight in and just a little bit off to the side of
6 these bones.

7 The procedure then is to make an
8 incision into the front of the disc, to remove disc
9 material with an instrument called a pituitary rongeur,
10 which is a little biting instrument that varies in size
11 from one millimeter up to five or six millimeters, so
12 that we start to remove superficial disc material.

13 There is also always a little lip called
14 an osteophytic lip in front of the spine that we have
15 to drill away so that we can open up the full space in
16 the disc. Now, when I am talking about opening up,
17 this is a tight space. It is three or four or
18 five millimeters, which is very narrow. Once we have
19 done the superficial work, we then put a pin into the
20 C-4, C-5 and C-6. We may do C-4-5 and then do C-5-6,
21 but we put those in to allow us to use a special device

22 called a distraction device to increase our view, to
23 open up the space a little bit more. And, again, I am
24 talking about opening it up from maybe three or
25 four millimeters to five or six millimeters. So it is

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1 not a huge difference, but when you are operating it
2 does make a difference.

3 Q Kind of like using a jack to increase the
4 space?

5 A It is a little gross, but yes. More or less
6 like that.

7 Q Sorry about the gross. Somebody should
8 object then. Sorry.

9 A Once we have that space opened and once we
10 have the superficial disc material removed, we then
11 bring an operating microscope into the field, and that
12 gives us very high magnification.

13 Through the microscope we scrape the
14 disc material from front all the way to the back so
15 it -- I will give you a -- this is the front. We want
16 to get back here because the nerve roots are back there
17 (Indicating).

18 And as we do this we are guided by our
19 view through the microscope, and we know when we get to
20 the back of the vertebral body we then scrape out any
21 material that is herniated or any bony ridge that is
22 pushing into the space where the nerve roots and the
23 spinal cord run. We extend it out to the side in
24 either direction to make sure these neural foramen are
25 opened up.

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1 Now, we are limited obviously in how
2 much we can do. I mentioned much earlier there is this
3 red structure called the vertebral artery. If you push
4 out too far you can damage that and cause tremendous
5 bleeding and possibly a stroke. So we are obviously
6 limited in just how aggressive we can be, but we can
7 through the operating microscope get far enough back to
8 feel we have taken the pressure off the nerves and the
9 pressure off the spinal cord.

10 We then want to perform the fusion
11 portion of the operation, and to do that we measure --
12 this may be five, six or seven millimeters. We measure
13 with a little sound or measuring device exactly how big
14 it is. Then we will go to a bottle of prepared sizes
15 and say, okay, I need a six-millimeter bone graft, for
16 example. We will take that out, we will soak it for
17 awhile in antibiotic solution and then coat it with
18 another substance to promote fusion, and then gently
19 tap it into the space where we removed the disc.

20 Q Can we take a step back for a second? The
21 disc is removed as best you can remove it; correct?

22 A Yes.

23 Q And then you take, you said, a bone graft.
24 Tell us where that comes from, the bone graft.

25 A We use something called an allograft, which

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1 is from somebody else.

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2 Q It is a cadaver bone?

3 A Basically a cadaver bone.

4 I should mention that once we remove the
5 disc, part of removing the disc intentionally involves
6 roughening up the surface of the bone. We have taken
7 soft tissue out and basically we are now looking at
8 bone on bone. So that one of the things to promote the
9 fusion would be we roughen up the endplate, which is
10 the surface of the disc, to promote the fusion. We
11 then place the bone in and gently tap it in with a
12 little mallet and a little tapping device so that it
13 sits between C-4 and C-5.

14 We then release that distraction so that
15 it clamps down tightly. We then push on it and make
16 sure it is in good position. We then repeat the same
17 process at the level below, C-5-6, and do essentially
18 the same thing. When we are done, we feel secure that
19 we have taken the pressure as much as we can off the
20 spinal cord and the nerves, we again roughen up the
21 endplates, measure again, take another piece of bone
22 out of the bottle, another piece of cadaver bone, and
23 tap it into position.

24 Once that's all in position, we want to
25 further stabilize it. We want to prevent the

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1 possibility of the bone popping out of position if the
2 patient moves their neck too far. We want to eliminate
3 the need for the patient to wear a collar for three
4 months to prevent motion.

5 Q A couple of questions. I need to stop you

6 for a second. I am sorry.

7 Once you take out that disc, can it grow
8 back?

9 A The disc itself can't grow back.

10 Q You roughened up the bone. Why do you
11 roughen up the bone?

12 A I mentioned that is to promote a little bit
13 of bleeding on the surface of the bone. That is said
14 to improve the probability of fusion.

15 Q Story to interrupt, Doctor. Please proceed.

16 A So we are back at the point where we have two
17 bone plugs in. They are sitting nicely. We pushed on
18 them to make sure they are not going to move. And then
19 to secure that construct, to eliminate the probability
20 of bone pushing out, to increase the probability of
21 fusion, we use what's called an anterior cervical
22 plate. It is a little plate that runs from the
23 vertebral body above the disc we have taken out to the
24 vertebral body below the second disc. We then secure
25 that in position with two screws above, two screws

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1 below, one or two screws in the center.

2 Q Sir, I am going to show you 27 in evidence
3 and ask you to please tell the jury what we are looking
4 at, sir.

5 A This is an AP or front-to-back x-ray of the
6 neck of Alison Klein dated 7/27/05.

7 Q That is the date of the surgery; right?

8 A I think that is the day or the day after
9 surgery. I can't recall.

10
11 big blowup. The plate is really much smaller than
12 that. But it gives us a good view. We are seeing a
13 metal plate that is made out of a substance called
14 titanium. That runs from the C-4 across the C-5, down
15 into the C-6 body. You can still see the disc space at
16 C-4-5 and C-5-6. We can't on this really see the bone
17 graft. One screw, one screw, one screw, one screw and
18 then a single screw in the middle.

19 So this is a front-to-back view of the
20 plate that was put in position at the time of surgery.

21 Q Sir, let's turn our attention, please, to
22 Plaintiff's 28, and I am going to ask you, sir, can you
23 see the bone graft any better in that view?

24 A Yes. This is a lateral view of the cervical
25 spine and this is front, this is back. This is the

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1 back of the skull. He was wearing glasses at the time;
2 that is what that is. And we are seeing the cervical
3 plate, this metal plate. Again, remember, this is
4 magnified.

5 And we are seeing a bone graft sitting
6 between C-4 and C-5. If you look at the disc space
7 there, there and there, it looks a little different
8 than that. There is a piece of bone there and there is
9 a piece of bone in there. We can see at C-5-6 a little
10 bit of a line. That is pretty common because the bone
11 never sits 100 percent against the bone plate. But it
12 is designed to fill that gap, maintain the height.

13 Actually, we have gotten kind of a nice

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14 improvement or straightening of that lordosis we were
15 talking about. So this is exactly what we like a
16 postoperative x-ray to look like.

17 Q The plate that is in Al's neck is running,
18 using my own throat, like right down along the front
19 (Indicating)?

20 A Yes. Well --

21 Q Or is it to the side?

22 A It is behind the -- pushing on your trachea,
23 it is behind the trachea and esophagus. So the skin is
24 here, the trachea and esophagus are sitting there, and
25 then there is the endplate (Indicating).

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1 Q The screws that you used, sir, it looks like
2 they are going right into those vertebral bodies, the
3 bone. Is that correct?

4 A That is correct.

5 Q So you screw them. What do you use to get
6 them in; a drill?

7 A No. We use what is called a self-drilling
8 screw. So the bone is first taken -- we first take an
9 awl, and with the plate sitting there we make a hole
10 into the bone with the awl, and then we use something
11 called a self-drilling screw and screwdriver and we
12 literally just screw it in. The plate has a little
13 catching or popping mechanism so we know it is secure.

14 Q Is this known as a two-level or three-level
15 fusion surgery?

16 A Two-level fusion.

17 Q It is a two-level fusion but there are screws

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18 going into three levels of bone. Is that fair to say?
19 A That is correct.
20 MR. O'TOOLE: You can have a seat, sir.
21 THE COURT: How much more do you have?
22 MR. O'TOOLE: I probably have another 30
23 minutes.
24 THE COURT: We could probably use a
25 break for the jury.

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1 Jurors, why don't we take ten minutes at
2 this juncture. Thanks.
3 (Jury leaves courtroom.)
4 (Short recess taken.)
5 oOo
6 (Jury enters courtroom.)
7 MR. O'TOOLE: May I, Judge?
8 THE COURT: Yes.
9 MR. O'TOOLE: Thanks.
10 Q Doctor, after the surgery you followed
11 Mr. Klein in terms of how he was doing; correct?
12 A That is correct.
13 Q Can you share with us how his postoperative
14 course was while in the hospital?
15 A I don't recall anything unusual about the
16 postoperative course in the hospital. I think there
17 was a little nausea and vomiting, but probably related
18 to anesthesia. I don't recall any specific event that
19 stands out in my mind at this time.
20 Q And after a short period of time he was
21 discharged from the hospital; correct?

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23 A Yes.

24 Q If the record indicated that he basically
25 stayed overnight and then went home, that would be
commensurate with your experience with this type of

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1 thing? That would be pretty normal?

2 A Yes.

3 Q Can you share with us how it is someone who
4 had neck surgery -- would you consider this major
5 surgery?

6 A Yes.

7 Q Can you share with us how it is someone who
8 has neck surgery can walk out within a couple of days
9 of the surgery?

10 A Well, I think the answer is that if the
11 patient's comfortable enough to go home and feels they
12 can care for themselves at home, we let them go.

13 One of the things I mentioned is that we
14 put a plate in, a metal plate, and that artificially
15 gives him an immediate degree of stability to the
16 spine. The actual incision in the skin is sore and it
17 is felt as sore, and the problems that the patient has
18 postoperatively might include a little hoarseness and a
19 little bit of trouble swallowing because of things that
20 are put on, but usually they say I can go home.

21 I am not one to say get out of here, we
22 are done with you. And if they say, gee, I am sore,
23 let me stay another day, I let them do that. But most
24 patients with this type of surgery go home day one
25 after surgery, and the rest of them usually go home day

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1 two after surgery.

2 Q And they're made comfortable in part by
3 narcotic medications; correct, sir?

4 A Yes.

5 Q On oxycodone or something like that?

6 A Yes. That is a narcotic analgesic. It is
7 basically the major component of Percocet.

8 Q Sir, after Mr. Klein was discharged from the
9 hospital, did you come to see him at your office at
10 some point?

11 A Yes, I did.

12 Q Can you share with us when you saw Mr. Klein
13 for the first time in your office after the surgery
14 was?

15 A It was on August 17th or August 18th, one of
16 those two dates.

17 Q Can you share with us how Mr. Klein was doing
18 at this time, sir?

19 A I felt that he was doing well. He still had
20 discomfort. He was taking Percocet four times a day,
21 which I felt was going to be something we had to slowly
22 taper off as he had been on it for some time. But
23 there still was a good deal of neck stiffness and
24 discomfort of that nature. But I felt basically for
25 three weeks after surgery the patient was right on

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1 schedule.

2 Q Now, when you saw Mr. Klein for the first
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3 time, was he -- he was working prior to that time;
4 correct?

5 A I am sorry. When you say?

6 Q When you saw Mr. Klein for the first time, he
7 was working as an attorney; correct? The first time
8 ever. April '05.

9 A Yes. Yes.

10 Q And when you saw him postoperatively for the
11 first postop visit on August 18, 2005, had he returned
12 to work yet at that point?

13 A I did not mention it in my note. I know by
14 the next time I saw him he had -- I am not sure if he
15 had by August 18th.

16 Q Sir, I am going to refresh your recollection,
17 the August 18th, 2005 note which is in evidence where
18 it says you have asked Al to start doing a little work,
19 and I am hoping by the week after Labor Day that he
20 would be able to return to full activity, including
21 going to court, etc.

22 A Well, that refreshes my memory that he
23 probably hadn't started working yet.

24 Q But you were encouraging the patient to try
25 to get back into it?

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1 A Yes.

2 Q So at that point you are happy with the
3 surgical result; correct?

4 A Yes.

5 Q Did you continue to follow Mr. Klein after
6 that point?

7 A Yes.

8 Q And can you share with us the next time you
9 saw Mr. Klein?

10 A The next notation I have is September 7th
11 2005, which was approximately seven weeks post surgery.

12 Q Now, I forgot to ask you, Doctor. When you
13 discharged Mr. Klein from the hospital, was he given
14 any kind of apparatus for his neck?

15 A I don't usually send the patient home with
16 any collar, but he may have been sent out with a
17 cervical collar. I don't recall specifically.

18 Q How was he doing on September 7th when you
19 saw him?

20 A He was still complaining of discomfort,
21 though more uncomfortable than he had been on the last
22 visit, but was still noticing limited ability to move
23 the neck. He had tried to go back to work, and after
24 spending several hours in court said he was rather
25 uncomfortable and hadn't tried again. So I think one

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1 or two days he tried to go to work.

2 Q I think you may have misspoken. Your note I
3 think says that he was feeling progressively more
4 comfortable. Is that correct?

5 A I thought I said that.

6 Q I think you said uncomfortable.

7 A I thought I said more comfortable. I
8 apologize.

9 Q When he tried to go back to work then he was
10 uncomfortable?

11 A He noticed discomfort with the effort of
12 going and being in court. Specifically, that made him
13 more uncomfortable during those episodes. Overall, he
14 was less uncomfortable than he had been on the last
15 visit.

16 Q Increase in symptoms based upon activity,
17 that is something you saw at the very outset of your
18 treatment of Mr. Klein; is that correct?

19 A Yes.

20 Q And, sir, did you make any recommendations to
21 Mr. Klein at the time of your September '05 visit as to
22 what type of treatment, if any, he should be undergoing
23 at that point?

24 A Well, I suggested that it would be
25 appropriate to start physical therapy to be taught and

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1 to partake in some range of motion exercises and neck
2 strengthening exercises.

3 Q Did you order any studies at that point, sir,
4 relative to the C-spine only?

5 A I suggested that when the patient return on
6 the next visit, sometime between that visit and the
7 next visit a set of plain x-rays of the neck be done.

8 Q Okay. And when was the next time Mr. Klein
9 saw you after that September '05 visit, sir?

10 A I have a notation in my chart of October 12,
11 2005. I have handwritten notes. And it is just a
12 sentence that says "left side better." I don't find a
13 typewritten note that corresponds to that, but my
14 record would indicate it was October 12, 2005. Other

15 than what I just read to you, left side better, I don't
16 have any recollection of that visit.

17 Q Sir, did there come a time you saw Mr. Klein
18 after that visit?

19 A Yes. The next visit was on January 4th,
20 2006.

21 Q Can you share with us -- and that is some
22 months; right? You got a bunch of months that passed
23 there?

24 A Let's see. We are talking October. Three
25 months.

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1 Q How was Mr. Klein doing at that point, sir?

2 A He noted at that time that the pain on the
3 left side -- we talked about the radiation to the
4 shoulder -- had largely resolved, but he was noticing
5 some discomfort on the right side, and I felt that this
6 could represent some degree of root irritation. But
7 because of that I sent the patient or I suggested that
8 the patient undergo a new MRI scan, as well as x-rays
9 of the neck.

10 Q And did he undergo those studies, sir?

11 A Eventually I believe he did. I don't have
12 them right in front of me.

13 Q Now, at that point, sir, on January '06, we
14 are now about six months postop? Is that correct, sir?

15 A Remind me of the date.

16 Q 7/26/05 is the surgery.

17 A So that is, yes, six months postop.

18 Q At that point, taking a snapshot in time,
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19 were you happy with the operative result?

20 A I was concerned, as I mentioned, with the
21 onset of pain on the right side, and I expected by six
22 months post surgery there would be significant
23 improvement if the surgery had achieved what we wanted
24 to. So I was obviously concerned and felt that we
25 should continue to monitor the patient closely.

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1 Q Is that what you did, sir?

2 A Yes.

3 Q Can you share with us when you next saw
4 Mr. Klein?

5 A I next saw the patient on... Let me just
6 coordinate these two. I am sorry. March 6, 2006.

7 Q Can you share with us, sir, what your
8 examination revealed at that time?

9 A The patient was complaining of a lot of neck
10 discomfort, more than I would have anticipated. It was
11 made worse both by flexing the neck and extending the
12 neck. The patient again was really limited by neck
13 pain at that time.

14 Q Sir, is there any notation concerning spasm
15 at the time of that March 6, 2007 visit? Reading from
16 a document in evidence, "paraspinal spasm and
17 limitation of motion in the neck secondary to pain
18 observed."

19 I am reading from a document dated
20 March 7, 2006.

21 A I am sorry, I don't have that in front of me.

22 MR. O'TOOLE: Can I approach the
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23 witness, sir, just to speed things along?
24 THE COURT: Yes, you may.
25 MR. O'TOOLE: This document is in

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1 evidence.
2 A I apologize.
3 Q No sweat, Doctor (Indicating.)
4 A Okay. There is a notation, yes, on a March 7
5 report that I noted --
6 MR. TUMBARELLO: May I see this?
7 MR. O'TOOLE: It is in evidence.
8 MR. TUMBARELLO: I would like to see
9 what the doctor is reading from just for a second
10 because I have the same records that the doctor
11 was talking about.
12 (Short pause.)
13 MR. TUMBARELLO: Now I know what we are
14 talking about. Thank you.
15 MR. O'TOOLE: Part of the disclosure
16 from March of '06.
17 MR. TUMBARELLO: I just wanted to know
18 what we were looking at. Just give me a second so
19 I can follow along.
20 MR. O'TOOLE: Whenever you are ready,
21 sir, just let me know.
22 Q Sir, before you said spasm is a way of the
23 body protecting itself; right?
24 A It is a way of the body protecting itself,
25 yes.

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1 Q Can spasm be faked, sir?

2 A It can be but it is difficult.

3 Q Is it considered in neurosurgical medicine to
4 be an objective sign?

5 A Yes.

6 Q Sir, I want you to assume that in evidence in
7 Plaintiff's Exhibit Number 9, that is the Staten Island
8 University Hospital record, Plaintiff's Exhibit
9 Number 11, Dr. L'Insalata's chart, Exhibit Number 12,
10 Dr. Turke's chart, Exhibit Number 13, Dr. Giannone's
11 chart, Exhibit Number 14, Dr. Perel's chart, Exhibit
12 Number 15, Dr. Reilly's chart, Exhibit Number 16,
13 Dr. Klein's chart, that there are indications of muscle
14 spasm.

15 would that be significant to you, sir?

16 A Yes, it would be.

17 Q Would it be consistent with your examination
18 on March 6th and on other dates of Mr. Klein?

19 A Yes.

20 Q Fair to say that spasms can come and go, sir?
21 You might have a spasm on March 6th and the next day
22 you might not have one; right?

23 A Correct.

24 Q Sir, did you have any concerns or any growing
25 concerns about Mr. Klein's recovery from the surgery by

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1 the time the March 6th examination took place?

2 A Yes, I did.

Klein Trial Transcript, Dr. DiGiacinto.txt
3 Q Can you share with us what those concerns

4 were, sir?

5 A The type of complaints that were offered by
6 the patient made me concerned that the patient did not
7 completely fuse in the neck. And there is a term we
8 call pseudarthrosis, which is a way of saying that the
9 bony fusion that we attempted to achieve did not occur.

10 Given the complaints that the patient
11 was making, I felt that we had to look into this as a
12 possible cause of the problem.

13 Q Did there come a time, sir, that you ordered
14 diagnostic studies to illuminate that suspicion
15 further?

16 A Yes.

17 MR. O'TOOLE: I would like to, with the
18 Court's permission, use the easel and show the
19 jury Plaintiff's Numbers 30, 31 and 32 in
20 evidence, which are CT CAT scans taken on
21 July 28th, 2006. And with the Court's permission,
22 I invite the witness down into the well again.

23 THE COURT: You may proceed.

24 MR. O'TOOLE: Thank you, sir.

25 Q Doctor, I am going to ask you when you get

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1 down here to please put these in the order that would
2 best aid the jury in your explanation because I don't
3 know what order is best.

4 A I think any one of them would serve fairly
5 well. They all pretty much show the same thing.

6 So I am putting up Plaintiff's

Klein Trial Transcript, Dr. DiGiacinto.txt
7 Exhibit 30. This is a CAT scan of the patient.

8 I think I mentioned earlier that one of
9 the advantages of the MRI scan is that we can get
10 sections or slices in a lot of different directions.
11 The CAT scan is actually limited in that we can only do
12 cross-sections of the spine. Having said that, this is
13 not a cross-section of the spine chopping off like
14 this, it is actually a similar picture to the one we
15 saw with the MRI scan.

16 So how does a CAT scan become this?
17 What happens is that the patient undergoes multiple
18 cross-sections. Every millimeter they do a slice, and
19 then the computer has the ability to reconstruct that
20 into this type of picture, this so-called sagittal
21 section (indicating).

22 So what we are seeing are slices very
23 similar to what we saw on the MRI scan. This is not a
24 direct reproduction of the image that the CAT scan
25 obtains but a computer reformatting. They take a stack

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1 of, you know, as I said, one millimeter for this
2 distance, however many that is, and they are able to
3 reproduce it into evidence.

4 So what we are seeing here is what looks
5 like an x-ray, what looks like a CT scan, but it shows
6 the bone very well. The bone, the cortex of the bone
7 or the outer edge, is the white. The slightly darker
8 is the marrow or the softer part of the bone. And we
9 are going to look at this area which is C-4, C-5 and
10 C-6.

Klein Trial Transcript, Dr. DiGiacinto.txt
If we look from the side at this image

11
12 we see that very dense white object, and that's the
13 plate that we looked at on the plain x-ray.

14 Q For the record, we are looking at the third
15 image to the right, sir; correct?

16 A That is correct. We see a screw fairly well
17 on this. We are not going to see the screws and the
18 plate like we do on an x-ray because the x-ray, as I
19 mentioned, is a summation of everything that the beam
20 is passing through. This is just one slice.

21 So you don't see a screw here, but you
22 see it here because this is the reconstructed slice and
23 this is the screw. We are seeing the plate because it
24 is fairly wide. So you see that on multiple images.

25 The next thing we are looking at is the

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1 space between the bones. These are the discs spaces
2 that have been untouched. This is the space between
3 C-4 and C-5. And we saw on the plain x-ray the bone
4 plug that was put in there. Well, it is very difficult
5 to tell the difference between C-4, the bone plug, and
6 C-5, and that is the appearance we like to see when we
7 have the fusion. So that tells me that based on this
8 film there is a high probability of fusion.

9 There is a little low density or what we
10 call hypodensity there, but we don't see it as much
11 here. So I think that if I saw this alone I would say
12 there is a very high probability, based on the x-ray,
13 that there is a fusion there. Unfortunately, we can
14 never be a thousand percent sure until you actually

Klein Trial Transcript, Dr. DiGiacinto.txt
15 look at it, but I would be fairly comfortable with
16 saying that is fused.

17 Now, I am going to point out the space
18 between C-5 and C-6. I think you could see a dark line
19 going across on almost every image here. And it is
20 true on the other images too. That dark line tells me
21 that it does not look like there is a fusion there.

22 This is very consistent with a so-called
23 pseudarthrosis. The bone is either partially
24 reabsorbed either on the top, or it looks more likely
25 as though the bottom part just hasn't fused, hasn't

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1 grown together. So this is consistent with the
2 pseudarthrosis between C-5 and C-6 and consistent with
3 what appears to be a solid fusion between C-4 and C-5.

4 Q Doctor, can I ask you to please circle on the
5 images for us across the board where the pseudarthrosis
6 is demonstrated by these films.

7 A I am going to put a five and a six sideways.

8 Q Can you put your initial next to that, sir,
9 too for the record?

10 A All four images?

11 Q All four, sir.

12 (Witness complying.)

13 Q You can resume the stand, sir.

14 Sir, can one of the things -- I forgot
15 to ask you before, and I apologize. Do you have an
16 opinion, within a reasonable degree of medical
17 certainty, as to what the cause of the surgery you
18 performed upon Mr. Klein on 7/26/05 was?

19 A Klein Trial Transcript, Dr. DiGiacinto.txt
Yes, I do.

20 Q And can you share with us what that cause
21 was, sir?

22 A The motor vehicle accident that the patient
23 was involved in in May of 2003.

24 Q Sir, the pseudoarthrosis we have now just
25 seen on the CT scan, do you have an opinion, within a

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1 reasonable degree of medical certainty, as to what the
2 cause of the surgery and then the resulting
3 pseudarthrosis was? And I am making reference to the
4 accident of May 20, 2003.

5 A I think it was all related to the accident of
6 May 2003.

7 Q Pseudarthrosis, sir, is that a known
8 potential outcome from a cervical fusion?

9 A Yes, it is.

10 Q And it happens in a certain number of
11 patients; right?

12 A Correct.

13 Q Is it a rare -- would you call it a
14 complication, or what would you call it?

15 A I guess you have to call it a complication
16 because it is not what you want to have happen. So,
17 yes, I think complication fits.

18 Q But it is not a common one; it is rare.
19 Correct?

20 A Correct.

21 Q Now, sir, after looking at that CT scan, did
22 you talk to Al Klein about what it showed?

Klein Trial Transcript, Dr. DiGiacinto.txt
23 A I think all along the way I shared with
24 Mr. Klein my concern about the pseudarthrosis, and I am
25 sure we specifically reviewed that, and I think I said

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1 it kind of substantiates what I think is going on.

2 Q Did there come a time, sir, that you
3 suggested to Mr. Klein that he undergo any type of
4 treatment to potentially cause the fusion to take or
5 help the fusion take?

6 A Yes.

7 Q Can you share with us what that is, sir?

8 A I suggested that the patient use something
9 called a bone growth stimulator. A bone growth
10 stimulator is a little Sony walkman-size box attached
11 to wires, and two pasties are stuck on the skin in the
12 region of the bone we want to heal. It is very
13 commonly used in long bone fractures to encourage
14 healing or fusion. And it has been shown in the
15 literature and in my own experience to actually cause a
16 pseudarthrosis to heal.

17 So I made that suggestion as potentially
18 a treatment that might improve the situation by
19 encouraging healing of the pseudarthrosis.

20 Q Can you share with us, sir, the frequency
21 with which you suggested to Mr. Klein that he wear the
22 bone stimulator?

23 A The frequency is really suggested by the
24 stimulator manufacturer, and it is suggested that the
25 patient wear it twenty-four seven, if possible. Just

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1 wear it all the time. Most patients don't do that. It
2 is just too inconvenient. But they try to wear it as
3 much as possible.

4 Q In your experience as a neurosurgeon, having
5 prescribed the bone stimulator, have your patients
6 shared with you whether or not that is a pleasant or
7 unpleasant feeling?

8 A It is really a variable answer. Some
9 patients say I can wear it all the time, it doesn't
10 bother me, some people say I sweat too much, it falls
11 off, it bothers me. I don't think it is terribly
12 unpleasant so much as inconvenient.

13 Q Now, we have talked about what pseudarthrosis
14 looks like and what it is. Can you share with us what
15 the symptoms of pseudarthrosis have been for Al Klein?

16 A Well, I think we talked about the symptoms
17 that the patient had leading up to my suggestion of the
18 CT scan, and that those are the symptoms. It is
19 basically progressively worsening neck pain.

20 Q Did the bone stimulator work for Al Klein?
21 Did it make the fusion happen?

22 A It did not appear to do so.

23 Q And you know that from how, sir?

24 A Subsequent studies that show that the
25 pseudarthrosis was still there, as well as continuing

1 complaints by the patient, which is the main thing.

2 Q Sir, there came a time, I believe, in 2007
3 that you ordered additional CT scans of Al Klein, and

4 those would be dated June 18, 2007. Is that correct?
5 A I believe that is correct, yes.
6 Q And that confirmed the same pseudarthrosis
7 that we see in the films in evidence?
8 A That is correct.
9 Q Any significant change or notable difference
10 in those films of June '07?
11 A No.
12 Q We discussed showing them to the jury today?
13 A Say it again?
14 Q These June '07 films, you don't have any
15 problem showing them to the jury?
16 A I would be happy to, if you like.
17 Q Do they show anything different than the '06
18 studies?
19 A No, they don't.
20 Q Other than the bone stimulator, did you make
21 any other treatment suggestions to Al Klein about how
22 he might be helped from a clinical standpoint? That
23 means from his pain.
24 A I made a suggestion that might be a little
25 bit of help clinically and also help diagnostically. I

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1 suggested that the patient see a pain management
2 physician to have specific blocks at the region of
3 C-5-C-6. This can be done with a local anesthetic to
4 temporarily numb the area, it could be done with
5 steroid medication to try to treat the area.
6 He had this done, and it gave him
7 temporary relief when he had blocks at C-5-C-6 which

8 strengthened my position that this was the cause of a
9 significant part of his pain. It didn't give him any
10 long-lasting relief, however.

11 Q Facet blocks, that is an injection into the
12 space between the bones; right?

13 A I would rather show you on the spine, if you
14 want.

15 Q Okay, sir.

16 MR. O'TOOLE: May I please approach the
17 witness?

18 THE COURT: You may.

19 Q I don't want to cause you to come down too
20 long, sir. Can you show us with this?

21 A The facet joint is one of the moveable joints
22 in the spine. We talked about the disc allowing
23 motion, but there is a facet joint on each side that is
24 also surrounded by a capsule and actually has sensory
25 nerves in it.

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1 The object of the facet block, which is
2 the type of injection that was done, is to numb up that
3 facet on each side between the fifth and sixth. When
4 we have a pseudarthrosis we know there is motion and
5 that motion is causing irritation, so that the object
6 of the facet block is to try to relieve the irritation
7 temporarily by doing an injection.

8 And as I said, it gave us more
9 diagnostic information, that it is the C-5-6 that is
10 causing the problem, rather than really any therapeutic
11 benefit or any long-term benefit in terms of the pain.

12 Q Doctor, did they work?

13 A They worked temporarily, as I said, to
14 relieve the pain. So they worked from the diagnostic
15 point of view and in strengthening my position that
16 that was the origin of the pain, but they did not work
17 long-term and didn't really eliminate his discomfort.

18 Q Now, you gave that suggestion. He followed
19 through with it at a time when he was already taking
20 narcotic medications; correct?

21 A Yes.

22 Q I want you to assume there is going to be
23 testimony and there is going to be evidence introduced
24 at this time in this trial that virtually from the
25 point of the accident until today Mr. Klein has been

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1 prescribed and has been taking narcotic medications.

2 Can you assume that?

3 A Yes.

4 Q Is that consistent with the history that you
5 have been told by Mr. Klein and the records you
6 reviewed?

7 A Yes.

8 Q Pain meds aren't working, narcotic meds, this
9 doesn't work. What do you try next? Did you make any
10 other suggestions to Mr. Klein from a nonsurgical point
11 of view?

12 A Well, I think one way of treating this is
13 just with pain medication to see if the level of
14 medication can be found that relieves the pain
15 sufficiently and allows the patient to function.

16 Another thought might be further treatment by pain
17 management, a variety of other types of injections they
18 might try to do.

19 So from the nonsurgical view, those
20 would be the two main therapeutic attempts. Limiting
21 activity, of course -- if it hurts, don't do it --
22 would be the other.

23 Q Sir, I am going to approach you with
24 Plaintiff's Exhibit Number 16 in evidence, which is --
25 I am sorry, Number 20 in evidence, which is

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1 Dr. Pathare's chart. Do you know who he is?

2 A Yes, I do.

3 Q Did you recommend Dr. Pathare to Mr. Klein?

4 A I believe I did.

5 Q Is he the gentleman that performed the facet
6 blocks?

7 A Yes.

8 Q Did Dr. Pathare also perform what is called
9 rhizotomy upon Mr. Klein?

10 A I believe that is correct.

11 MR. O'TOOLE: I would like to approach
12 the witness with the evidence.

13 THE COURT: You may.

14 Q Sir, can you please tell us -- and if it
15 helps you to use this photograph in evidence that's
16 dated 4/25/07 -- what a rhizotomy procedure involves
17 and how it is administered?

18 A I mentioned that the facet joint that I
19 pointed out on the model has little nerves in it.

20 Rhizotomy is a procedure in which you burn those
21 nerves. It is performed pretty much the same way the
22 injection is. It is literally a needle under x-ray
23 control put at the facet joint, but instead of
24 injecting some local anesthetic you administer a
25 current, the object being to try to actually -- I will

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1 use the term kill the nerve at that level.

2 The rhizotomy will burn the nerve, it
3 will electrocoagulate the nerve -- they are all the
4 same term -- the hope being that if you effectively
5 eliminate any sensory sensation input from that nerve
6 that it will relieve the discomfort in the patient.

7 When it is done -- we know the nerve
8 eventually grows back. It may be two or three months
9 or six months. When it is done, the procedure may not
10 have any effect at all.

11 MR. O'TOOLE: Your Honor, I would like
12 to briefly publish to the jury by walking by them
13 an original photograph contained in the chart of
14 Dr. Pathare (Indicating).

15 Q And, sir, the instrument on the right over
16 here, is that the thing that goes into the space to
17 burn?

18 A Yes. It looks like the electrocoagulating
19 probe, yes.

20 Q And, sir, having spoken to Mr. Klein after
21 the surgery -- I am sorry, after the rhizotomy, did it
22 help?

23 A No.