

1 The State of Ohio,)
2) SS: Doe, 307
3 County of Cuyahoga.)
4 IN THE COURT OF COMMON PLEAS
5 MARTHA GREEN,)
6 Plaintiff,) Case No.
7 vs.) 133,825
8 HILLCREST HOSPITAL,)
9 et al.,)
10 Defendants.)
11 ---o0o---
12 Deposition of DR. BRIAN F. McNAMEE, a
13 Witness herein, called by the Plaintiff as
14 if upon cross-examination under the
15 statute, and taken before Ronald Stahl, a
16 Notary Public within and for the State of
17 Ohio, pursuant to the agreement of counsel
18 and pursuant to the further stipulations
19 of counsel herein contained, on Friday,
20 the 21st day of April, 1989, at 4:00
21 o'clock p.m., at the St. John Hospital,
22 7911 Detroit Avenue, City of Cleveland,
23 County of Cuyahoga and the State of Ohio.
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APPEARANCES:

On behalf of the Plaintiff:

Gaines & Stern, by:

John V. Scharon, Jr., Esq.

On behalf of Defendants James Zelch
and Chagrin Valley Radiology
Associates, Incorporated:

Reminger & Rerningsr, by:

Marc Groedel, Esq.

On behalf of Defendant Sidney Stone,
Jr.:

Weston, Hurd, Fallon, Paisley &
Howley, by:

Mary Golrick, Esq.

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P R O C E E D I N G S

DR. BRIAN F. McNAMEE, of lawful age,
a Witness herein, called by the Plaintiff
as -if upon cross-examination under the
statute, having been first duly sworn, as
hereinafter' certified, deposes and says as
follows:

CROSS- EXAMINATION OF BRIAN F. McNAMEE
BY MR. SCHARON:

Q Would you state your full name For
the record, please?

A Brian F. McNamee.

Q What is your address professionally?

A 7911 Detroit Avenue, Cleveland.

Q St. John Hospital?

A Correct.

Q Where we are taking this deposition.

Have you had your deposition taken before?

A Yes, I have.

Q Many times?

A More than two.

MR. SCHARON: I am trying
to get an idea of whether you understand
the ground rules.

THE WITNESS: Yes, I do, I

1 believe that I do.

2 MR. SCHARON: If you don't
3 understand a question, let me know,
4 because I am going to assume that if you
5 have responded to a question I have asked
6 you, that the answer you gave is meant to
7 be responsive to the question.

8 THE WITNESS: Okay.

9 MR. SCMARON: Fair enough?

10 THE WITNESS: Very good.

11 BY MR. SCHARON:

12 Q I have been furnished this afternoon
13 with a copy of your curriculum vitae, and
14 at the bottom of the first page you have
15 listed three former appointments.

16 A Yes.

17 Q And two of those have to do with
18 being a clinical instructor, one at Case
19 Western Reserve and Cleveland Metropolitan
20 at Highland View.

21 A Right,

22 Q When did you stop being a clinical
23 instructor?

24 A Somewhere in the early '80's.

25 Q Would that be during the time you

1 were going to law school?

2 A Actually it was before.

3 Q Do you presently teach medicine?

4 A No, I don't.

5 Q Would some time in the early '80's

6 have been the last time you taught

7 medicine?

8 A Yes, aside from teaching at in-house

9 conferences here to residents occasionally

10 and things like that.

11 Q Is there a radiology residency at St.

12 John?

13 A No, there is not.

14 Q You are affiliated with other

15 hospitals besides St. John?

16 A Yes.

17 Q You are Director of Radiology at St.

18 John-West Shore?

19 A Formerly, not presently.

20 Q The current appointment, then, is

21 staff radiologist at St. John-West Shore?

22 A Yes.

23 Q Is there a radiology residency

24 program at St. John-West Shore? .

25 A No, there is not.

1 Q When did you become board certified
2 in radiology?

3 A 1975, I believe.

4 Q You went to law school, your resume
5 indicates, in 1985.

6 A Correct.

7 Q Did any of the hospitals you were
8 associated with help fund your law school
9 education?

10 A No. That was entirely my own
11 venture.

12 Q What was the reason for going to law
13 school?

14 A I thought I might enjoy practicing
15 medical-legal law.

16 Q What does medical-legal law mean to
17 you?

18 A A lot of things, corporate medicine,
19 representing physicians in business
20 ventures, malpractice litigation in
21 general, and law beyond actual medical-
22 legal law, too, as a matter of fact, I
23 find it kind of interesting in general.

24 Q Did your entrance into law school
25 arise in any way out of a desire to better

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involved in some AIDS litigation, actually
recently, and that is primarily a lot of

1 what I have done, as well as some -- I
2 review files for the radiology group as
3 well.

4 Q Which radiology group is that?

5 A Reich, R-e-i-c-h, Seidelman &
6 Janicki.

7 Q Is that the group that you are in?

8 A That is correct.

9 Q And when you say review files for
10 them, what do you review?

11 A I review in-house procedures as to
12 what might be advisable in terms of our
13 standard of care, what types of litigation
14 has been filed or have been filed with
15 reference to any of the practicing
16 radiologists in the group.

17 Q So, having your legal expertise and
18 also being a radiologist in that group,
19 they call upon you to review claims and/or
20 cases that have been filed against members
21 of the group?

22 A Yeah, and as I say, our in-house
23 procedures as to whether they are
24 reflecting a reasonable standard of care.

25 Q Wow much of your professional time do

1 you spend in the active clinical practice
2 of radiology?

3 A Far and away, most of it. I don't
4 know, 90 percent or --

5 Q And the other 10 percent, then, would
6 be legal?

7 A Yes.

8 Q There was another radiology group
9 that was mentioned, I thought, in your
10 curriculum, Radiology Consulting
11 Associates.

12 A That was simply the former name, the
13 same group, just a different corporate
14 name, the same group.

15 Q That is why I was confused.

16 A Yes.

17 Q This case, as you know, involves
18 lumbosacral facet dislocation. Have you
19 ever been involved in a case involving
20 that lesion before?

21 A No, I don't believe I have.

22
23 ever had a case of it?

24 A I don't think so.

25 Q Have you ever had a case that was

1 taught to you during training, to
2 differentiate between actual patients and,
3 maybe, case presentations for a teaching
4 purpose?

5 A I can't recall, to be honest with
6 you. We came across most everything in
7 our training, and I can't remember
8 selectively whether I had that or not.

9 Q Do you know how Mr. Groedel came to
10 contact you for purposes of working on
11 this case?

12 A No, I don't.

13 Q When did you get involved in this
14 case?

15 A Whenever, I think, I got a call from
16 him, which I would have to go back and
17 look at the correspondence, asking me to
18 review a file. It was some months ago, I
19 can tell you that. I don't know if it was
20 -- or six months ago, probably, not that
21 far back.

22 Q Do you have a file on this case?

23 A I have x-rays and I have, I think, a
24 letter asking me to review it, if that is
25 a file.

1 Q Could I see it?

2 A This is not it. Somewhere around
3 here is a -- here is one -- X may not even
4 have that letter anymore, to be honest
5 with you. It was just a letter that said
6 would you be interested in or would you
7 look at this case, something like that,
8 and this was a letter with a deposition.

9 Q This March 10 of '89 letter just
10 encloses a deposition of Dr. Hartz, so
11 there is something before that.

12 A Yes. I don't know where it is. I
13 kept close track of what I would consider
14 to be the evidence in the case, which was
15 the x-rays. That is what I was concerned
16 about, so I just keep those in the office.

17 Q Why don't we do this? Why don't you
18 list for me everything you have seen that
19 involves this case? We know you have the
20 deposition.

21 A I have seen the x-rays, I have seen
22 the report by Dr. Zelch on those x-rays,
23 and I have seen Dr. Hartz' deposition, and
24 I think that is all I have seen.

25 MR. GROEDEL: I think you

1 have seen Dr. Zelch's deposition, too.

2 THE WITNESS: Did I see
3 that?

4 MR. GROEDEL: I think I
5 sent it to you.

6 THE WITNESS: You may
7 have. I may not have read it. I don't
8 remember.

9 BY MR. SCHARON:

10 Q You don't recall reading it?

11 A I don't have a real clear
12 recollection of having read chat.

13 Q Let me go through the films and see
14 whether or not you remember seeing these
15 films. The Suburban Community Hospital
16 films of September, '85, which would have
17 been some months before the trauma
18 involved in this case.

19 A I have not seen those,

20 Q Those are plain film studies of the
21 lumbosacral spine?

22 A That I have not seen.

23 Q Plain films and CT scans of the
24 abdomen and low back from Hillcrest
25 Hospital of February of '86.

1 A Those I have seen.

2 Q Plain films and CT scans, and I don't
3 know whether there were myelograms or not,
4 from Metro General Hospital.

5 A Those I have not seen..

6 MR. GROEDEL: There were
7 myelograms.

8 BY MR. SCHARON:

10 of July, August of 1986?

11 A Yeah. I don't believe I saw any x-
12 rays from Metro,

13 Q What did you understand your
14 assignment or your task to be in this
15 case?

16 A To review the x-rays and the
17 interpretation of those x-rays and
18 determine whether, in my opinion, the
19 interpretation was within a reasonable
20 standard of medical practice.

21 Q And when you say those x-rays, you
22 are confining yourself and have confined
23 your opinions to the films that we just
24 talked about, and those are the Hillcrest
25 films?

1 A That is correct.

2 Q Tell me about your experience as an
3 expert in medical negligence cases. Have
4 you done this before?

5 A Very, very infrequently. On occasion
6 I have been requested under similar
7 circumstances to review films for both the
8 defense and the plaintiff, as a matter of
9 fact.

10 Q How many times, totally, do you
11 think?

12 A Probably five, maybe.

13 Q Over what period of time?

14 A Since I have been in the practice of
15 medicine.

16 Q Back to '71, '74?

17 A '75.

18 Q '75?

19 A Yeah.

20 Q And how would you break down those
21 cases between plaintiffs and defendants
22 who contacted you for the reviews?

23 A Probably about very close to even,
24 which it can't be. Somewhere around even,
25 actually, or maybe there were six cases, I

1 don't know, but it has been approximately
2 even.

3 Q Have you ever testified on behalf of
4 a plaintiff in a medical malpractice case?

5 A I was deposed on behalf of one, yes.

6 Q And was that the only case in which
7 you found there to be merit in the
8 plaintiff's position?

9 A I am just trying to think if there
10 was any other that I got beyond just
11 reading or looking at a case. I think
12 that probably is -- yes, absolutely, the
13 only one.

14 Q Okay.

15 A I have also become a plaintiff's
16 expert witness in some AIDS litigation,
17 which is currently ongoing, but it really
18 does not deal with x-ray findings.

19 Q Why don't we try to -- I will confine
20 my questions to radiology,

21 A Okay.

22 Q Then that way we won't have to stray
23 off into the AIDS litigation that you are
24 involved in.

25 A Yes.

1 Q So, in the five or six cases that you
2 have done in the past, roughly half of
3 them were plaintiffs, half of them were
4 defendants, and in one case you actually
5 testified, and that was on behalf of the
6 plaintiff?

7 A Yes.

8 Q And have you not ever testified on
9 behalf of a defendant in a malpractice
10 case?

11 A Yes, I have. I believe I had,
12 actually, a deposition taken on a case of
13 an AC joint separation. I am trying to
14 remember if I was deposed on that. I
15 don't recall. I know I definitely did
16 give an opinion for the defense on that,
17 but I can't recall how far it went.

18 Q What did the plaintiff's case
19 involve?

20 A That involved the case of a question
21 of birth trauma to an infant.

22 Q So, are those the only two cases you
23 have been deposed in?

24 A I think so.

25 Q Now, aside from medical negligence

1 cases, your practice probably also
2 involves permanent injury litigation as a
3 treating physician. Does it?

4 A No, not generally, no.

5 Q Has it ever?

6 A No, aside from, maybe, as a resident,
7 you know, practicing.

8 Q Have you consulted with parties to
9 permanent injury litigation, not medical
10 negligence cases, either for the plaintiff
11 or the defendant as a consultant, where
12 there may be radiology question arising in
13 the case?

14 A Well, I have been -- I don't know if
15 this would fall in the same category. I
16 have been requested to review one or two
17 other files with reference to being an
18 expert witness or at least giving an
19 opinion.

20 Q Those were --

21 A But that is really the grounds we
22 already covered here. I am not sure.

23 Q What I am getting at is I think I
24 understand a77 of the ways in which you
25 have been involved in medical malpractice

1 cases. 'tau have reviewed five or six
2 files?

3 A Uh-huh.

4 Q You have given depositions in two of
5 those, one an each side?

6 A Uh-huh.

7 Q And what I am asking about now is
8 other medical-legal issues that were not
9 malpractice related.

10 A Yes. That would be, I think, in the
11 realm of AIDS litigation in the sense they
12 weren't strictly **physician** malpractice.
13 They were hospital, blood bank, things
14 like that.

15 Q Have any of your prior medical-legal
16 cases been in association with Mr. Groedel
17 or the Reminger & Reminger firm?

18 A I have been requested by them to
19 review another file for sure and, I think,
20 a third file, but I can't recall who that
21 was in reference to. I do recall that a
22 while ago, doing another one.

23 Q How much do you get paid for your
24 time on these cases?

25 A I have never gotten around to sending

1 him a bill, to be honest with you, which
2 is something I always intended to get
3 around to.

4 Q Are you going to send me a bill?

5 MR. GROEDEL: That you can
6 be sure of.

7 A I would expect, but I have never been
8 paid anything, that I can recall.

9 BY MR. SCHARON:

10 Q You have just done it as a volunteer?

11 A I intended to get around to sending
12 some bills out, and I didn't do it.

13 (At this time a discussion
14 was had off the record.)

15 BY MR. SCHARON:

16 Q So, from some earlier questions that
17 I asked and answers you gave, it is my
18 understanding that you, yourself, have not
19 had the occasion, in your practice, to
20 diagnose a lumbosacral facet dislocation.

21 A I don't recall that I have.

22 Q Would you remember it if you had?

23 A Probably, because it would be a
24 fairly unusual case.

25 Q Sure. Do you know if you have had a

1 patient who had a lumbosacral Facet
2 dislocation, that *you* didn't diagnose?

3 A I am not aware of this, hopefully.

4 Q Do you specialize in any particular
5 type of radiology?

6 A No. I do what might be regarded as
7 some subspecialty work in the sense that I
8 do interventional radiology, which some
9 persons consider that to be sort of a
10 subspecialty, but beyond that I do the
11 general practice *of* radiology, which
12 includes neuroradiology, things like that.

13 Q How much of your time do you spend in
14 interpretation of CT scans?

15 A I would say probably one-third,
16 something like that.

17 Q Can you give me any estimate of how
18 many CT scans you reviewed in any
19 particular time period you choose?

20 A I would say that over the last five
21 years I have probably reviewed anywhere
22 from five to ten CT scans a working day.

23 Q Five to ten a day?

24 A Yes.

25 Q Five days a week?

1 A Yes.

2 Q For five years?

3 A Yeah.

4 Q How many of those would be low back
5 CT's?

6 A A lot.

7 Q Percentage.

8 A I would say at least 20 percent,
9 maybe more, 20 to 30 percent.

10 Q Do you know if you are listed
11 anywhere as being available to review
12 medical malpractice situations?

13 A I am not.

14 Q You are not?

15 A I am not listed, to my knowledge,
16 unless I am informally listed.

17 Q You haven't listed yourself?

18 A No, I have not.

19 Q You don't have a referral service
20 that sends you cases to review?

21 A No.

22 Q Tell me what your process was that
23 you used in working on this Martha Green
24 case? What did you receive, in what order
25 and how did you follow through with it?

1 A To the best of my recollection, I
2 received a letter that asked me to review
3 the case. I either at that time or
4 shortly thereafter received the x-rays,
5 and then I looked at those and gave an
6 opinion of those x-rays.

7 I believe at the time that I
8 received the x-rays, I also had a copy of
9 Dr. Zelch's opinion, but I can't recall
10 that far absolute certainty, whether I had
11 it then or it was sent to me later.

12 Q Dr. Zelch's opinion?

13 A Yes, I can't recall when I actually
14 saw that, to be honest with you.

15 Q You mean his interpretations?

16 A Yes, his interpretations.

17 Q When you were originally contacted
18 were you told what the case was about?

19 A No, I wasn't. I don't even know if I
20 knew it was a trauma case at that time,

21 Q So, all you knew is you were supposed
22 to look at some films and read them?

23 A Right. There may have been
24 something. I can't say that for sure.
25 The letter may have said something like

1 please review these x-rays, and it may
2 have had a brief history, like this
3 patient was involved in an accident or an
4 automobile accident. I don't hanestly
5 recall. I think I probably, for some
6 reason, was aware that there was trauma
7 involved, but I can't say that for sure -

8 Q Well, what else da you know about the
9 case other than what you have seen an the
10 film and in Dr. Hartzl' deposition, and
11 maybe in Dr. Zelch's -- not Dr. Zelch's,
12 but the interpretations of Dr. Zelch.

13 A Well, I understand that the case is
14 involving trauma. There was an automobile
15 accident. The patient has suffered some
16 sort of damage as a result of the
17 accident, and that there were findings
18 described by another expert, that were
19 called an acute spo'ndylolysis -- acute
20 spondylolisthesis. excuse me, and an
21 attempt was made, apparently, to
22 surgically repair the injury resulting
23 from the accident, and that attempt was
24 not entirely successful,

25 Q Do you have an understanding about

1 when the surgery was done?

2 A To my knowledge, it was done
3 somewhere in the range of six months after
4 the original injury.

5 Q Do you have an understanding of the

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14 Millcrest Hospital?

15 A I have sort of a general idea in the
16 sense that she was apparently, obviously,
17 having some back pain. Apparently there
18 was some question of abdominal injuries as
19 well, and there may or may not have been
20 some neurologic findings at that time, but
21 I am not clear as to whether there were or
22 weren't.

23 I have not seen any official
24 report on it, so I don't know.

25 Q That clinical information isn't

1 anything you needed to reach your
2 conclusions in the case, is that fair?
3 A That may be -- I would say that any
4 amount of information that you have can
5 sometimes help you in terms of focusing
6 your attention to one area or another
7 like, you know, certainly there is
8 actually a very big difference about that
9 amongst radiologist, as to whether or not
10 clinical findings help you and should be
11 used to arrive at a diagnosis or, perhaps,
12 mislead you and cause you to lose your
13 objectivity in evaluating the findings.

14 Q I guess what I am getting at is
15 without clinical information do you have
16 any understanding of why CT scans, for
17 instance, were ordered?

18 A In the absence of any clinical
19 information, would I have known?

20 Q Yes.

21 A I don't think that I would have
22 known, in the absence of clinical
23 information, why they were ordered.

24 Q You would have some clinical
25 information?

1 A Yes. You mean under ordinary
2 circumstances, would you have some
3 clinical information when you reviewed
4 films for interpretation? Is that the
5 question?

6 Q That is one question.

7 A Under ordinary circumstances you
8 should have some.

9 Q And under the circumstances where you
10 are reviewing films only for purposes of
11 testify-ing as an expert, as in this case,
12 what about the need for clinical
13 information?

14 A If I understand your question, you
15 can arrive at an opinion in the absence of
16 clinical information.

17 Q Is it fair for me to understand that
18 that is essentially what you did in this
19 case, though?

20 A Not quite. I think I did have some
21 history, that there was evidence of
22 trauma, and I can't recall how precise the
23 history was, but I didn't have much more
24 than that.

25 Q Are you in a position to either agree

1 or disagree that Martha Green did have or
2 didn't have a lumbosacral facet
3 dislocation bilateral? Do you know
4 whether she actually had that?

5 A It is my understanding that that is
6 what was found at surgery.

7 Q Where did that come from?

8 A I asked one of the attorneys involved
9 in the case, if there were any findings.

10 Q So, you didn't actually see any
11 records of it, that is just an assumption?

12 A After I requested^{*} some information, I
13 got a look at part of an operative note, I
14 believe, that indicated what the operative
15 findings were.

16 Q And did they show the dislocation?

17 A Yes. I believe the operative finding
18 was something to the effect that there was
19 a complete dislocation of the facet joint:
20 at L-5, S-1, however, it did not say that
21 there was an anterior locked dislocation
22 of the facet joint.

23 Q What does that mean?

24 A I am not sure.

25 Q Is that possible?

1 A I kind of wondered about that myself,
2 quite honestly, I mean in a theoretical
3 sense you could dislocate anything and net
4 have it over and locked. It may just
5 simply be that that choice of wording was
6 not quite as precise as it might have
7 been, or maybe they were saying somehow
8 that the facet joint was disrupted, which
9 would be --

10 Q But not locked?

11 A Dislocated, but not actually reversed
12 and locked.

13 Q Well, do you know what they were
14 trying to do during that surgery?

15 A They were trying to reduce that
16 dislocation.

17 Q And do you know from reading the
18 records that you saw, whether they were
19 able to?

20 A They were not successful.

21 Q So, they did a fusion in situ?

22 A That is correct.

23 (At this time a discussion
24 was had off the record.)

25 BY MR. SCHARON:

1 Q You received a letter asking you to
2 look at some films. There may have been
3 some clinical information or some
4 historical information in the letter.

5 A Yes.

6 Q You gat the films, read the films and
7 interpreted them?

8 A Correct,

9 Q And at that point did you write a
10 report or anything?

11 A Yes, I did.

12 Q You wrote a report. Is this the
13 report that we have been given, dated
14 January 18, 1989?

15 A Without reading it in detail, this
16 certainly looks like the report,

17 Q Did you only write the one report?

18 A Yes, I did.

19 Q Then did you do anything else? Was
20 it after that, that you got some records
21 about the operation that was done at
22 Metro?

23 A Yes.

24 Q And was it after that, after reading
25 the films, that you got the deposition of

1 Dr. Hartz and the interpretations of the
2 films?

3 A Correct.

4 Q By Dr. Zelch?

5 A I can't recall when I got Zelch's
6 interpretations, but it was after that,
7 that I received Dr. Hartz' deposition.

8 MR. GROEDEL: Just for the
9 record, I think Dr. McNamee's report makes
10 reference to Dr. Zelch's interpretation,
11 or at least wards to that effect.

12 THE WITNESS: Yes.

13 MR. GROEDEL: So, I would
14 assume you received this interpretation
15 prior to the report?

16 THE WITNESS: Well,
17 certainly I received it prior to me making
18 my report, that is for sure, but as to
19 whether or not I got it before I actually
20 -- in other words, I would have reviewed
21 the x-rays sometime thereafter.

22 I would have sat down and
23 actually written my report, I would not
24 necessarily have done it precisely at the
25 same time.

1 BY MR. SCHARON:

2 Q Do you have any further work planned?

3 A I don't think I understand.

4 Q Do you expect to do anything else in
5 respect to this case other than testify?

6 I mean are you planning on revfewing any
7 more materials or any more films?

8 A No.

9 Q Have you reviewed any medical
10 literature?

11 A I have not.

12 Q Are you planning to?

13 A You know, as the circumstances
14 indicate, if it seems like it would be
15 indicated, I will.

16 Q So far nabody has asked you to?

17 A No.

18 Q If they ask, you will do it?

19 A Yes, or if I feel it is essential to
20 the case for some reason.

21 Q If I can summarize your report in a
22 word, what it says is that you agreed with
23 Dr. Zelch's interpretations of the films
24 that were done at Hillcrest Hospital?

25 A I agree with his conclusion that he

1 does not know for certain whether it was
2 an acute or chronic spondylolisthesis, and
3 specifically I think that my opinion was
4 that hfs interpretations were within the
5 standard of care that I would expect from
6 a practicing radiologist interpreting most
7 films.

8 Q Do you think that his
9 interpretations, as reported, made it
10 clear that there was an uncertainty about
11 whether or not spondylolisthesis was
12 long-standing or acute?

13 MR. GROEDEL: Objection.
14 Wait. Why don't we have him look at the
15 interpretations so he won't misunderstand?

16 MR. SCHARON: Sure. Do
17 you have them out?

18 MR. GROEDEL: I have it.
19 I am not sure if that is the exact one,
20 but it is right in that section. John, I
21 assume you are referring to the CT scan.

22 MR. SCHARON: Yes.

23 MR. GROEDEL: You might as
24 well turn to that one,

25 BY MR. SCHARON:

1 Q I am not concerned with his
2 interpretation of the chest films or the
3 femur films or leg films. I am interested
4 in the low back films and the plain and CT
5 scans.

6 A Well, to start with, his
7 interpretation of the lumbar spine films
8 on 2-15, he specifically says that he
9 cannot determine whether this is an acute
10 change or represents a long-standing
11 distortion, and he suggests a CT of the
12 lumbar spine, but I think that is
13 absolutely accurate. I couldn't tell from
14 looking at the plain films how long it had
15 been there.

16 Then there is a CT scan of the
17 abdomen and pelvis, and he basically comes
18 to the conclusion that he sees no evidence
19 of peritoneal fluid or hemorrhage, and
20 that the liver and spleen were normal, and
21 I agree with those two findings.

22 Q Okay, and then there was the CT of
23 the lumbar spine dated 2-16.

24 A Yes.

25 Q It may not be 2-16. Hold on. I am

1 sorry. Yes, it is dated 2-16. I think
2 that is on the sheet that says CT scan
3 after intravenous contrast.

4 A Here he describes a marked
5 spondylolisthesis and ^{small}nw hemorrhage into
6 the fecal sac. He says, "I suspect the
7 spondylolisthesis is long-standing," and
8 that, taken in conjunction with his
9 previous report of the lumbar spine, where
10 he says he doesn't know whether it is
11 acute or chronic, indicates to me that he
12 isn't sure whether it is acute or chronic

13 Q And that is, in your opinion, the
14 right message to send to the attending
15 physician, the orthopedist?

16 MR. GROEOEL: Objection.
17 Go ahead. Objection to right message.

18 A I don't believe, in looking at those
19 films, that I would have been certain
20 whether or not it was acute or chronic
21 dislocation.

22 Q So that in your opinion, looking at
23 all those films in conjunction, there is
24 the possibility that that is an acute
25 spondylolisthesis?

1 A Yes.

2 Q And for a radiologist to practice in
3 accordance with acceptable standards, that
4 ~~policy~~ ^{positive} policy has to be communicated to the
5 orthopedist, would you agree?

6 A I would say I agree, and *my* answer is
7 that he did communicate that to the
8 orthopedist.

9 Q That is the next question. You feel
10 that the interpretations that are found in
11 this hospital record, and we have referred
12 to them by date, do adequately convey that
13 message?

14 A I believe they do,

15 Q Do you know Dr. Zelch?

16 A Yes, I do.

17 Q How do you know him, doctor?

18 A He was -- he trained at the Cleveland
19 Clinic in radiology.

20 Q As did you?

21 A Yes, as did I. He was in a different
22 class, ~~if~~ if you will, but he was there at
23 least contemporaneously.

24 Q And is that when you first met him?

25 A That is correct.

1 Q Have you kept in touch with him
2 since?

3 A Not really. On rare occasions I will
4 bump into him but, no, I haven't-

5 Q Do you socialize with him?

6 A No, I don't.

7 Q Do you consider him to be a friend?

8 A Well, I guess, a friendly
9 acquaintance.

10 Q A colleague?

11 A A colleague.

12 Q **Have you** ever been involved in any
13 other cases with him?

14 A No.

15 Q Was he ahead of you or behind you at
16 the Clinic?

17 A He was ahead of me.

18 Q Do you remember what the nature of
19 his association with the Clinic was? Was
20 he on the staff or was he a special fellow
21 or what?

22 A He was a resident at that time, then
23 he went on to be a member of the staff. I
24 can't recall if -- he probably would have
25 been a member of the staff at the time

1 that I was still a resident,

2 Q Did he have any responsibility for
3 teaching you?

4 A Maybe in a very loose sense, in the
5 sense that he would have, perhaps, just
6 joined the staff as I was finishing my
7 residency, so that would be about it.

8 Q The way the Clinic works, do the
9 staff radiologists have responsibility for
10 training the residents?

11 A They do, but I was far enough along
12 at that time, that I was pretty much on my
13 own, as a matter of fact, I was actually
14 Teaching the residents behind me at that
15 time.

16 Q What time period would this have
17 been?

18 A This would have been -- I was there
19 from '72 to -- actually '71 to '75.

20 Q In your report you make the statement
21 that -- I have to find it here. This is
22 on page two, and it is the last sentence
23 in that first paragraph. It says, "The
24 appearance of the spondylolisthesis is
25 most compatible with a chronic

1 spondylolisthesis on a statistical basis
2 and due to its severity." Can you explain
3 that statement to me'? What statistical
4 basis are we talking about and what is it
5 about its severity that suggests it is
6 long-standing?

7 A Most spondylolisthesis that we see --
8 it is not that unusual **to see**
9 spondylolisthesis that are ordinarily
10 chronic. They have been there for a long
11 period of time, and the extent to which
12 this was approximately a Grade II, give or
13 take a little bit, would indicate that it
14 has been there **for** some time, generally,
15 because it has had time **to** slide forward
16 during time.

17 In other wards, what generally
18 will happen is that the pars
19 interarticularis is disrupted, and once
20 that bridge is cracked, then the vertebral
21 bodies and portions of the elements are
22 free to begin to slide from the normal
23 position, and to the extent that they have
24 slid very far from their normal position
25 you would sort of assume that they have

1 had time to do that.

2 Q In that situation where there is a
3 defect in the pars, the facets stay in the
4 normal alignment, don't they?

5 A They do generally, yes.

6 Q What would you expect the extent of
7 the spondylolisthesis to be, or the grade
8 of the spondylolisthesis to be, with an
9 acute dislocation of the lumbosacral facet
10 joints?

11 A I don't know that there is a hard and
12 fast rule that I could give you, but in
13 general I wouldn't expect that it would be
14 that severe, as severe as I saw it in this
15 case.

16 Q You mean as severe as a Grade II?

17 A Yes.

18 Q The spondylolisthesis that was
19 exhibited here **was** a Grade I **to** II?

20 A **As** I recall, it looked like a Grade
21 II to III is my recollection. That was my
22 opinion of the lumbar spine.

23 Q How do you measure the grades, you
24 personally? Then we will talk about how
25 other people do it, because I have heard

1 of a way of measuring it with three
2 degrees, and I have also heard of a way of
3 measuring it with four degrees.
4 A I measured it with four degrees each.
5 Q Each degree representing --
6 A A quarter of the vertebral body.
7 Q And one being less slippage than
8 four?
9 A Correct.
10 Q Your reading of Martha Green's films
11 was that she had a close to three degree
12 spondylolisthesis?
13 A Between a two and a three.
14 Q Between a two and three, so more than
15 half way?
16 A Probably a little more-
17 Q But less than three-quarters of the
18 way?
19 A Yes.
20 Q Would the degree of
21 spondylolisthesis, if it were due to an
22 acute dislocation, depend on the
23 significance of the trauma?
24 A If I understand your question, you
25 are saying would a greater

1 spondylolisthesis more likely be due to
2 greater trauma?

3 Q Yes.

4 A I would say yes.

5 Q Statistically I understand that you
6 see more chronic spondylolisthesis than
7 you do acute spondylolisthesis.

8 A Yes.

9 Q And is it that simple statistic that
10 leads you to say that the appearance of
11 the spondylolisthesis in Martha Green's
12 case is most compatible with a chronic
13 spondylolisthesis?

14 A That and the fact that -- yes. It
15 was, you know, two to three
16 spondylolisthesis, and generally these --
17 the ones that I see are chronic.

18 Q How many of the spondylolisthesis
19 patients do you see immediately post-
20 trauma?

21 A That would be hard to say. I mean I
22 might not even know it always, to be
23 honest with you. I might get a history of
24 low back pain and I wouldn't know whether
25 it was acute low back pain or chronic low

1 **back** pain or what, so that would be a
2 difficult thing to answer. I mean we see
3 them typically coming through the
4 emergency room, I can tell you that, and
5 we will also see some of them referred
6 from doctor's offices.

7 Q Are there associated radiologic
8 findings that indicate that a
9 spondylolisthesis is more likely to be
10 acute than chronic?

11 A I am not sure what you would be
12 getting at.

13 Q I am wondering whether there is
14 anything else that usually shows up on
15 films of someone's lumbosacral spine when
16 they have acute spondylolisthesis?

17 A **Not** necessarily. I think *you* could
18 have acute spondylolisthesis without a lot
19 of other findings.

20 Q I understand that that is a
21 possibility, but I am looking for a
22 statistical incidence of acute
23 spondylolisthesis and no associated other
24 radiologic findings. **Do** you know?

25 A Perhaps if I would see some evidence

1 of fractures in a lumbar spine, that would
2 be, you know, associated fractures, that
3 would be more of an indication that it
4 were acute.

5 Q And there were no fractures in any of
6 the films from Willcrest Hospital, that
7 you saw?

8 A I was not convinced there were.

9 Q Did you see some that were suggestive
10 of fractures?

11 A I didn't think so.

12 Q No process fractures?

13 A I didn't think so.

14 Q Did you see a pars interarticularis
15 defect in any of the films at Hillcrest?

16 A Yes, but that was -- wait a minute.
17 I saw the spondylolisthesis, yes, and I --
18 I don't know if I saw oblique views of the
19 lumbar spine to actually see the pars or
20 not. I can't remember if I did see the
21 pars precisely on that.

22 Q Well, do you feel that all of the
23 requisite views were done at Hillcrest
24 Hospital to show whether or not this was a
25 chronic or acute spondylolisthesis?

1 MR. GROEDEL: Within the
2 tests that were ordered themselves?
3 MR. SCHARQN: Right.
4 Well, within the ones he saw.
5 BY MR. SCHARON:
6 Q I presume you saw them all.
7 A Yeah, I did see them all. I can't
8 recall the oblique views. If oblique
9 views were done, those would help in terms
10 of demonstrating the pars
11 interarticularis. On plain films I am
12 talking about.
13 Q Well, let me ask you this: Is it
14 important for the radiologist to reach a
15 conclusion about whether a
16 spondylolisthesis is acute or long-
17 standing in a patient like Martha Green?
18 A It can be, yes.
19 Q Can **it** change the way the problem is
20 treated?
21 A Yes, it can.
22 Q Do *you* have an understanding of
23 whether an acute spondylolisthesis may be
24 a surgical case?
25 A Yes, it can be, as it was in this

1 case.

2 Q And that is because the spine may be
3 unstable?

4 A Correct.

5 Q And in need of reduction of the
6 dislocation and fusion, perhaps?

7 A Correct.

8 Q If it is a long-standing
9 spondylolisthesis, on the other hand, it
10 may be a situation that does not require
11 any surgical treatment?

12 A Or it may. I mean there may be
13 neurologic changes very similar to what
14 there would be in an acute situation, that
15 have now progressed to the point where it
16 does need surgical intervention and very
17 quickly:

18 Q So, a situation where the
19 spondylolisthesis will be long-standing --

20 A For whatever reason, right, that the
21 spondylolisthesis has now deteriorated
22 where they now require relatively
23 immediate intervention.

24 Q Do you have an opinion or do you know
25 whether an acute spondylolisthesis due to

1 facet dislocation requires reduction
2 and/or fusion?

3 MR. GROEDEL: Objection.

4 BY MR. SCHARON:

5 Q Do you have any opinion?

6 A I don't think that it is -- I don't
7 believe that it is within *my* area of
8 expertise.

9 Q What I am trying to find out is
10 whether you expect to offer any opinions
11 on that particular issue.

12 A I don't think so.

13 Q Are you aware of any studies or
14 literature, or do you have any experience
15 that would indicate either the likelihood
16 or unlikelihood of having successful
17 reduction in fusion in Mrs. Green's case
18 if surgery had been done at an earlier
19 point in time?

20 A I have not reviewed the literature
21 with regard to that.

22 Q Nor do you have anything in your own
23 experience, that would help you reach a
24 conclusion on that?

25 A I don't believe that I do.

1 Q So, again, that is not something you
2 would expect to render an opinion about?

3 A No.

4 Q If you have a long-standing
5 spondylolisthesis, statistically are you
6 more likely to see disc space narrowing in
7 that patient?

8 A I don't know if I can say that
9 categorically. I would answer that
10 question this way, depending upon the
11 patient's weight, their level of activity,
12 what they do for a living, you would
13 either be more or less likely to see disc
14 space narrowing.

15 In other words, what I am
16 getting at is if someone were relatively
17 athletic and they were out playing, say,
18 tennis, doing things that were exposing
19 the spine to a lot of movement, those
20 types of persons will wind up, much more
21 likely, with a narrowing of the disc.

22 Someone who is relatively
23 sedentary, who doesn't do a lot, could
24 have spondylolisthesis with very much
25 less, if any, narrowing of the disc space.

1 Q You mentioned weight, also. How
2 would that impact? The heavier the person
3 the more --

4 A It would wear down the disc, yes.

5 Q We talked over each other. Let's see
6 if I understand you. The^y heavier the
7 person the more likely it would be that
8 you would have some disc space narrowing
9 if you had a chronic spondylolisthesis?

10 A Yes.

11 Q The activity level and weight, would
12 that also have an effect on whether you
13 are more likely to have either spur
14 formation oripping on the vertebra, on
15 the vertebral bodies?

16 A Yes.

17 Q So, again, the more activity the
18 person does, the heavier the person, the
19 more likely it would be that you would
20 have those degenerative changes?

Yes.

22 Q I asked you before about pars
23 defects. Is it true that if you have a
24 defect in the pars, that that is
25 indicative of the likelihood that it is a

1 long-standing spondylolisthesis?

2 A No. That doesn't necessarily tell
3 you. It could have been acutely
4 disrupted or --

5 Q The typical, say the garden variety
6 spondylolisthesis, is that usually
7 associated with Facets that are in a
8 normal alignment, but the pars is
9 disrupted?

10 A That is correct.

11 Q I asked you before about Martha
12 Green's films, and whether there was a
13 disruption of the pars, and I mean this
14 isn't a trick question, but let's just see
15 the films. ~~We~~ don't have to be just
16 dependant upon your memory, but I want you
17 to look at the films, any of them and all
18 of them, and tell me whether or not the
19 pars was disrupted on her films.

20 What films would you want to
21 look at to tell that?

22 A Well, let me start with the plain
23 films of the lumbar spine.

24 Q Okay. It is marked Defendants'
25 Exhibit --

1 A 8-1.

2 Q Those are all the plain films from
3 Hillcrest. They are all labeled in
4 series, B-1, 2, 3 and 4.

5 A All right. There is some more lumbar
6 spine films from Hillcrest, I am sure,
7 that shows me the thoracic spine.

8 Q Do you have some more films from
9 Hillcrest?

10 MR. GROEDEL: Why don't
11 you take a look and see what you have
12 there? Try and not mix yourself up.

13 (At this time a discussion
14 was had off the record.)

15 THE WITNESS: Now, what: is
16 the question?

17 BY MR. SCHARON:

18 Q Do you think you saw any other low
19 back films from Hillcrest Hospital, plain
20 films?

21 A I don't think so.

22 Q So, we have six?

23 A Right.

24 Q Number 8-1 through 6?

25 A Yeah.

1 Q Do you see any disruption of the pars
2 interarticularis on any of those films?

3 A I don't, but they are not necessarily
4 the best, you know, for demonstrating.

5 Q 'There aren't any obliques in that
6 set?

7 A Right, but they may not have been
8 able to get obliques, too, difficulty
9 positioning the patient. I don't know
10 why.

11 Q If you were going to try to determine
12 whether the spondylolisthesis were chronic
13 or long-standing, would you want to do
14 obliques?

15 A It could be helpful.

16 Q The film on the right side there,
17 that is Defendants' Exhibit B what?

18 A B-5.

19 Q That shows the spondylolisthesis, the
20 slippage of L-5 over S-1?

21 A Yes, it does.

22 Q And to what degree do you read on
23 that film?

24 A I would read this as a Grade II.

25 Q You are saying that it appears to you

1 that the anterior aspect of S-1 is through
2 half of the vertebral body of L-5?

3 A Approximately.

4 Q Can you tell from that whether the
5 facet joints are in normal location?

6 A I cannot clearly, no.

7 Q Can you tell that on any of those
8 films?

9 A I don't believe that I can,

10 Q Do you agree that the appropriate
11 way, in accordance with acceptable
12 standards of radiology, to determine
13 whether that spondylolisthesis is chronic
14 or acute, is to follow-up with a CT scan?

15 A I don't think that I agree with that
16 statement.

17 Q What ought to be done?

18 A I think --

19 Q To make that determination?

20 A I think the CT scan, depending upon
21 what is being found clinically on physical
22 exam of the patient, would probably be
23 indicated, because there may be additional
24 information, there may be other damage to
25 the spine, that is not clearly apparent on

1 these a/p and lateral views, but it is
2 still possible that it might definitively
3 determine the question as to whether or
4 not it is acute or chronic.

5 Q So, what else would you do besides
6 the CT scan, or what else ought to be done
7 to make that determination?

8 A I think I would examine the patient.

9 Q You physically?

10 A No. I mean I would suggest that the
11 patient be examined for neurologic
12 deficits, things like that, as to whether
13 or not, you know, some further
14 intervention might be required.

15 Q You wouldn't, as a radiologist,
16 suggest any other radiologic studies?

17 A I would have suggested probably a CT
18 of the lumbar spine, is what I would have
19 suggested.

20 Q But nothing more than that?

21 A I don't believe so, in the absence of
22 any further information.

23 Q If you got back the information that
24 the patient had numbness and tingling in
25 the feet, and that on at least one

1 examination there was some reflex absences
2 in the ankle, would that mean enough to
3 you, as a radiologist, to suggest any
4 further radiologic studies?

5 A I would think a CT would be the
6 appropriate study.

7 Q You wouldn't suggest, for instance, a
8 lateral tomogram?

9 A I would prefer to get a CT. I think
10 that would be more helpful than tomograms.

11 Q Is it true or not that a lateral
12 tomogram would have shown the facet
13 dislocation in Mrs. Green?

14 A It might have. I am really not being
15 evasive, but tomograms are not always that
16 clear and easy to read, they really
17 aren't. That is why CT, I think, is so
18 helpful. If they weren't that diagnostic
19 routinely, I don't think a modality like
20 CT would have ever got to be such a
21 popular method of study.

22 Q Were you aware in this case that the
23 emergency room diagnosis was dislocation
24 lumbosacral?

25 A No. I did not know that.

1 Q As a radiologist reviewing films
2 ordered in the emergency room, would you,
3 as a matter of practice, know what the
4 emergency room diagnosis was?

5 A No.

6 Q Would you just assume that whatever
7 x-rays that you were reviewing had been
8 ordered as a result of what was done in
9 the emergency room?

10 A I don't know how to answer that
11 question specifically. What I would be
12 doing routinely in reviewing emergency
13 room films is I would look at the clinical
14 information, whatever information there
15 was, and very frequently in a case like
16 this it would be something like trauma or
17 MVA. That would be a typical one, and I
18 would not necessarily have actually a
19 diagnosis by any means. I would be
20 surprised if I had a diagnosis, because
21 ordinarily they would be getting the x-
22 rays to help them arrive at a diagnosis.

23 Q Do you know what the timing of Dr.
24 Zelch's review of the x-rays taken in the
25 emergency room was?

1 A I do not know.

2 Q If **you** assume that Dr. Zelch had seen
3 the plain films of the lumbar spine, not
4 **on** the evening of the 14th, but when he
5 came in to routinely review films the next
6 day --

7 A Which is a possibility.

8 Q Just assume that to be true, **and**
9 assume also that this diagnosis of
10 dislocation lumbosacral was on the
11 emergency room chart at the time. Would
12 that change any of your opinions in the
13 case about whether the correct methodology
14 of diagnosis was followed, and whether the
15 interpretations were correct?

16 A It really wouldn't, and I will tell
17 you why. What is on the emergency room
18 chart is not is what is communicated to
19 the x-ray department generally, certainly
20 not necessarily. They have their own
21 chart. They send over an x-ray
22 requisition, and on that requisition is
23 what would be communicated ordinarily to
24 the radiologist, so that regardless of
25 whether he reads those immediately upon

1 their having been obtained, or the next
2 day, the high likelihood, unless you can
3 tell me something else happened, is that
4 he read those films only with reference to
5 whatever bit of clinical information was
6 on the x-ray requisition.

7 Unless he specifically talked to
8 the emergency room doctor or some other
9 things occurred, that is the way it would
10 happen here, and that is the way it is in
11 any department of x-ray that I have worked
12 in.

13 Q Because you are answering that way,
14 you are assuming that he did not know that
15 the diagnosis was dislocation lumbosacral?

16 A I guess I am saying I would assume he
17 would not have seen the emergency room
18 chart.

19 Q Let's assume it the other way and see
20 what you have to say about it. Assume
21 that he did see it at the time of his
22 reading.

23 A That he was aware that the clinical
24 diagnosis by the emergency room was
25 dislocation?

1 A Right.

2 MR. GROEDEL: Objection

3 for the record.

4 BY MR. SCHARON:

5 Q Wave you seen this?

6 A No, I have not.

7 Q This emergency room record?

8 A No, I haven't. Is that x-ray?

9 Q It is x-r.

10 A Equals lumbosacral dislocation, and

11 then laceration sutures by Dr. someone,

12 Q Heller.

13 A Heller, maybe.

14 Q Also over here it looks like the

15 initial something "K." It looks like it

16 says, "K" as the physician's signature.

17 A Yes.

18 Q Question fracture L-4 on lateral

19 view.

20 That is correct, and I am not sure

21 what line that goes with. I think there

22 is like a line coming up from Dr. Heller

23 to that, which might indicate what Dr.

24 Heller felt.

25 Q Then in the diagnosis boxes it says

1 dislocation lumbosacral.

2 A That is absolutely right. I haven't
3 seen that.

4 Q Well, assume that Dr. Zelch knew that
5 that was in this emergency room chart when
6 he came in the next day to routinely view
7 emergency room films from the night
8 before, okay?

9 A Yes.

10 Q Do you think that would have changed
11 anything in this case?

12 MR. GROEDEL: Objection.

13 BY MR. SCHARON:

14 Q That you have said so far?

15 MR. GROEDEL: Objection.

16 BY MR. SCHARON:

17 Q Or that you said in your report?

18 A I don't know if it would have changed
19 his -- the objective interpretation of the
20 x-ray films, because I think the objective
21 findings on the x-ray films are relatively
22 indeterminate, sa faced with relatively
23 indeterminate objective findings where you
24 are not sure that it is acute or chronic,
25 and someone is telling you, by the exam,

1 that it is an acute dislocation, you might
2 say you should go with the physical exam,
3 because I am not really sure.

4 Q Looking at those plain films, the B
5 series, 1 through 6 -- are there six?

6 MR. GROEDEL: He took one
7 down.

8 BY MR. SCHARON:

9 Q Oh, you have one down, I am sorry.

10 A Yes. Here is three.

11 Q Looking at that B series, 1 through
12 6, do you see any degenerative changes in
13 Martha Green's lumbosacral spine?

14 A Slight.

15 Q What do you see?

16 A There is some eburnation of the end
17 plates at L-5, 3 and 2.

18 Q What do you mean by eburnation?

19 A A little bit of increased density,
20 sclerosis, and there is a mild degree on
21 the superior, anterior and end plates of
22 L-5.

23 Q That is at the L-5, L-4 junction?

24 A Correct, which would be the superior
25 one.

1 Q And nothing at L-5, S-1 other than
2 the spondylolisthesis?

3 A Well, there *is* probably some
4 narrowing of L-5, S-1, not a marked
5 degree, but there is some narrow-ing. It
6 has lost its wedged shape contour.

7 Q What has?

8 A The L-5, S-1 intervertebral disk.

9 Q Can you tell that is because of the
10 shifting or --

11 A It is kind of hard to say, but it
12 does not have a normal width to it.

13 Q That is passibly due to the
14 spondylolisthesis?

15 A It may be but, once again, as I say,
16 I wouldn't be sure whether it was due to
17 an old or recent condition.

18 Q You said that the way that you read
19 these films, you cannot be sure whether
20 the spondylolisthesis was acute or long-
21 standing, and so if you had a physician,
22 who clinically felt that it was a
23 dislocation of the lumbosacral joint, as a
24 radiologist it would be -- I want to make
25 sure I understand what you said.

1 A 5 a radiologist you said we
2 will go with the clinical feeling, in
3 other words, that might tip the scale in
4 favor of it being acute?
5 A Yes. In the normal circumstances
6 what would happen is that that would
7 probably be some sort of a verbal
8 communication and, you know, he would ask
9 you about reports, in other words, based
10 on the objective findings of the film,
11 what you think, and after that, as sort of
12 an informal type of an opinion, you would
13 say to him typically, **well**, you know, I
14 can't really tell you, which is what I
15 said in my report, so **if** it **looks** to you
16 like there is something like **that** going
17 on, you might be better advised to --

18 Q To treat it that way?

19 A Treat it with what I see fit as the
20 physical findings.

21 Q The plain films and the CT scans *of*
22 Martha Green certainly don't rule out an
23 acute dislocation of the lumbosacral
24 spine?

25 A No, they do not.

1 Q If the orthopedist in this case, who
2 ordered the studies, felt that the
3 radiologist was communicating to him that
4 this spondylolisthesis was probably long-
5 standing and not acute, would you disagree
6 or would you think that the radiologist
7 did not communicate the right message to
8 the orthopedist?

9 MR. GROEDEL: Objection.
10 Go ahead and answer.

11 A That is sort of a compound question
12 you asked me. In my reading of the
13 radiologist's interpretation, my
14 conclusion would be, if I were reading
15 that, that the radiologist doesn't know
16 whether it is acute or chronic, At one
17 time he says he thinks it could be
18 either/or. The other time he suspects
19 that it may **be** chronic, but that is far
20 from being a definitive opinion, because
21 if he suspects that it may **be**, he suspects
22 that it also may not be.

23 Q Actually he said "I suspect the
24 spondylolisthesis is long-standing,"

25 A Yes.

1 Q He didn't say maybe.

2 A Yeah, that is correct. I agree. I
3 am sorry, but in any event his choice of
4 words, I suspect is long-standing, to me
5 indicates that it may be long-standing,
6 and he is leaning, maybe, a little more
7 that way on the basis of a CT scan, than
8 the other way, but it is a fine call.

9 The word suspect is not a very
10 strong word in terms of communicating what
11 he is sure of to treat the patient.

12 Q You would expect in that situation
13 that there would be verbal communication
14 in addition to this typewritten report?

15 A Yes.

16 Q Between the radiologist and the
17 orthopedist?

18 A If the orthopedist were unsure as to
19 what the level of certainty was in Dr.
20 Zelch's mind, I would expect that he would
21 have sought: aut Dr. Zelch and asked him,
22 is there anything more here? I think what
23 he would typically do is say can you be
24 any more specific?

25 Q The orthopedist said he was present

1 in the CT scanning room when the scanning
2 was done and the films were being
3 interpreted.

4 A That I can't speak to, I don't know
5 what all occurred there.

6 Q Do I understand correctly -- before I
7 leave this point, I want to make sure I
8 have got the right idea, If Dr. Zelch
9 communicated to the orthopedist, that he
10 felt it was more likely that this problem
11 was long-standing than acute, that that
12 would be wrong according to your reading
13 of the films?

14 MR. EROEDEL: Objection.
15 That is not what he said.

16 A That is not what I said, and let me
17 go on to say that I think from the
18 orthopedist's standpoint in a treatment
19 perspective, that his choice of saying I
20 suspect the spondylolisthesis is long-
21 standing is not of sufficient certitude
22 for the orthopedist to simply take that as
23 the end disposition of the case with
24 respect to treatment.

25 I think it necessarily states a

1 great deal of uncertainty, although you
2 can say that maybe what it means is that
3 it is a little more probable than not
4 probable, but that is as much as it means,
5 and that certainly is not what I would
6 consider to be definitive with respect to
7 treatment, particularly taking it in
8 conjunction with the previous
9 uncertainties with respect to the x-ray
10 findings on the first set of plain films.

11 The radiologist says that he
12 cannot determine whether it is acute or
13 long-standing, and then on the second
14 lumbar spine he says -- he goes the other
15 way and he says that the possibility of an
16 acute fracture of the posterior support
17 should be considered, so he doesn't really
18 -- he is waffling back and forth, and then
19 the third time he comes down and says he
20 suspects one of the prior two options.

21 In short, I think the x-ray
22 interpretations and findings were just
23 replete with uncertainty.

24 Q Did you see in Dr. Hartz' deposition,
25 that he looked at Exhibit 8-5 and felt

1 there was a possibility only of a free
2 bone fragment on that film?

3 A I do recall seeing that in his
4 deposition,

5 Q And can you identify what he was
6 talking about on that film?

7 A I don't think I can-

8 Q And you see no possibility of free
9 bone fragment on that film, B-5?

10 A I don't see anything that I would
11 diagnose as a free bone fragment here.

12 Q Well, not diagnose. I am talking
13 about is there something that is
14 suggestive of the possibility that there
15 is one? It doesn't have to be diagnostic.

16 MR. GROEDEL: Objection to
17 the question.

18 A I really don't think that I do.

19 BY MR. SCHARON:

20 Q Looking at B-5 do you see any
21 abnormality in the position of the L-5, S-
22 I facet joints?

23 A I can't determine that.

24 MR. SCHARON: I am
25 finished with the plain films from the

1 14th.

2 BY MR. SCHARON:

3 Q This is CT scan and this is C series.

4 Let me see if I have any others in that
5 series, C-1 and C-2, I think, is a17 I
6 have. That is an abdominal CT.

7 A That is correct.

8 (At this time a short
9 recess was had.)

10 BY MR. SCHARON:

11 Q CT slice No. 18, can you find that
12 one?

13 A Yes.

14 Q I am looking at your report, and you
15 stated in this that there is no abnormal
16 fluid collection identified. Are there
17 any abnormal fluid collections?

18 A This is --

19 Q The right CT scan?

20 A No. That is the report of the CT of

21
22
23 of abnormal mass, and there is no focal
24 defects in the liver, and so on, and no
25 evidence of free intraperitoneal fluid.

1 Q Does that CT scan show acute soft
2 tissue abnormality behind the spinous
3 process?

4 A There is soft tissue density which, I
5 think, is abnormal, but I don't know if it
6 is acute or chronic. I don't know what it
7 represents.

8 Q Do you have the information that this
9 is a trauma from a motor vehicle accident?

10 A Uh-huh.

11 Q Is that an indication that it could
12 be hematoma?

13 A It certainly could be.

14 Q And is that present in slide 17, 18,
15 19, 20 and 21?

16 A Yes, but as to whether or not --
17 having been asked, as I was, to give my
18 opinion as to whether or not the standard
19 of care is breached by not mentioning that
20 in a CT scan of the abdomen, I don't
21 believe that it is, because when an
22 abdominal CT scan is obtained, what
23 persons are looking for is abdominal
24 pathology, not pathology in the posterior
25 soft tissues of the low back.

1 Q So, if you are told I want a CT scan
2 of the abdomen, because I am worried about
3 organ damage, and you see hematoma in the
4 back, or you see a soft tissue abnormality
5 in the back, then it is okay not to report
6 it?

7 A I just don't think that it would have
8 been noticed by a radiologist.

9 Q And that is up to standard?

10 A And I think that is honestly within
11 the standard of care.

12 Q On C-2 in slice No. 7 are the facet
13 joints at L-5 and S-1 portrayed in that
14 slice?

15 A I really don't know. I can't tell.

16 Q I am finished with that CT. The
17 other one is the D series, 1 through 4.
18 Would you agree in looking at D-1, that
19 the size of the abnormality in the soft
20 tissues between the spinous process is
21 larger than it was on the previous CT?

22 A I am not convinced. These are not
23 entirely equivalent cuts. One is more
24 magnified than the other one. It is a
25 little more larger image, and I am not

1 convinced that it is any larger.

2 Q The D series, at any rate, *is* a low
3 back CT, lumbosacral spine CT series?

4 A No, not entirely. The D series is
5 partially an abdominal series here, or D-1
6 is abdominal, and D-2 is for the lumbar
7 spine, and D-3 is part an abdominal
8 series, **and** D-4 is reconstructions of the
9 lumbar series.

10 Q From looking at the interpretation is
11 it clear that both an abdominal and lumbar
12 spine CT was ordered for that particular
13 time? They are both recorded, for
14 instance, on the same interpretation
15 sheet.

16 A I guess that is the way it occurred.

17 Q So, knowing that the attending
18 physician wanted a lumbosacral spine CT
19 done, do you think it was in accordance
20 with acceptable standards to not report
21 the presence of the hematoma behind the
22 spinous processes, that showed up, albeit
23 on the abdominal portion of the study?

24 A I think it was. I don't know that it
25 would have been reported routinely, I

1 really don't.

2 Q On D-2, slice 7 right in the center',
3 are the facets of L-5, S-1 shown on that:
4 slice?

5 A I think they are.

6 Q Are they, in your interpretation, in
7 normal position?

8 A I am not sure. I really am not sure.

9 Q Have you ever seen this study by
10 Manaster & Osborne, called "CT Patterns of
11 Facet Fracture Dislocations in the
12 Thoraco-Lumbar Region"?

13 A I don't recall if I seen this or not.

14 Q If you will look at figure 2 and the
15 films that correspond with figure 2 in the
16 study -- do you have that?

17 A Yes.

18 MR. GROEDEL: Excuse me.
19 What is the published date of that
20 article, just: for the record?

21 MR. SCHARON: It depends
22 on what publication you are talking about.
23 It is either November of 1986 in American
24 Journal of Neuroradiology, or February of
25 '87 in the American Journal of Radiology.

1 MR. GROEDEL: Thanks.

2 BY MR. SCHARON:

3 Q Comparing figure 2 and the picture of

4 the CT in the study, to slice No. 7,

5 doesn't it appear that those facets are

6 abnormally positioned, that they have been

7 reversed?

8 MR. GROEDEL: Are you

9 asking that question based upon his review

10 of that article at the same time?

11 MR. SCHARON: Right.

12 MR. GROEDEL: Okay. Well,

13 I will object, but go ahead.

14 A It is similar, but not exactly the

15 same. That is all I can tell you. What

16 they are calling the inferior facet being

17 up and over the superior facet has a more

18 oblique, I guess you would say,

19 orientation of what would be the facet

20 surface, than this one does. This is much

21 'less oblique.

22 Q Aren't they saying here in the normal

23 alignment, which is what you expect to

24 see, is this angled -- let's call that the

25 angled surface, I think you said, oblique.

1 A Yes.

2 Q That oblique surface paralleling the

3 oblique surface of the --

4 A Of the other one.

5 Q Of the other facet?

6 A Yes, you know, here they are.

7 Q Well, on the left side.

8 A And on the right side they are

9 paralleling, and on the other side

10 actually they are --

11 Q You are talking now about the surface

12 that runs horizontally?

13 A Right.

14 Q Not the surface that runs obliquely.

15 In this study doesn't it also show that

16 the surface that runs horizontally is

17 parallel, but that the surface that runs

18 obliquely is opposite?

19 A It shows that the interface between

20 these two surfaces is essentially

21 horizontal to the eye here, which it is

22 approximately on the left side on our

23 scan, but on the right side it is not

24 really, it is somewhat oblique.

25 Q Let me ask you this, having seen this

1 study and that figure, do you still think
2 that slice No. 7 shows normally aligned
3 lumbosacral facet joints?

4 MR. GROEDEL: Objection.
5 Go ahead.

6 A I am not sure that I can tell you.
7 It is suggestive, comparing them with
8 this, but I am not really certain that it
9 is dislocated,

10 Q Do you think that this Manaster &
11 Osborne study, which was published at the
12 end of '86, the beginning of '87, is
13 something brand-new in the literature,
14 that is expounding CT interpretations that
15 were not known to radiologists before that
16 date?

17 A I don't know how often anybody has
18 written on this subject, to be honest with
19 you. I doubt that there is a lot of
20 literature available on it but, you know,
21 it may be that somebody else has attacked
22 the problem.

23 Q In interpreting CT scans of the
24 lumbosacral spine to determine whether the
25 Facets are normal, were you taught that

1 you need to be able to identify the facets
2 and know what their normal alignment looks
3 like?

4 A Yes. You would certainly want to
5 know that.

6 Q And you learned of that long before
7 this study was published?

8 A I don't know that I learned it -- I
9 would say that that would be something
10 that you would attempt to **do** as you
11 interpret CT scans.

12 Q What I am saying is what is contained
13 in this study isn't anything **new** in the

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24 like if they are normally aligned.

25 A I would not call it a part of the

1 standard radiologic residency program.
2 You may come across that, or you may not.
3 It is an unusual type of a thing. That is
4 all I can tell you. This is not a garden
5 variety injury.

6 Q In this study the statement is made,
7 "One must be familiar with the normal
8 appearance of facets on CT in order to
9 recognize abnormal relationships." Would
10 you agree with that?

11 A I think it is just sort of stating a
12 histornologic fact dealing with how you
13 could best interpret x-rays.

14 Q Do you know what the usual mechanism
15 of a lumbosacral facet dislocation is?

16 A I believe, typically, the inferior --
17 or the superior facet of the inferior
18 body lies up over the inferior facet of
19 the superior body.

20 Q What body movement is associated with
21 that occurring in the spins?

22 A I believe it would be an acute
23 forward flexion.

24 Q if Mrs. Green was on the hood of a
25 car with her legs in front of her, and was

1 propelled into the side of a Winnebago and
2 flexed her spine acutely, would that be an
3 appropriate mechanism, as far as you know,
4 to produce lumbosacral facet dislocation?

5 A Given all those assumptions, I
6 suppose it could.

7 Q On slices 6, 7 and 9 Dr. Hartz has
8 said that he thinks he sees some small
9 bone fragment. I take it that you do not?

10 A What he -- in his deposition he
11 makes reference to the fact that as you
12 are coming through lumbar or any bones you
13 will see parts of bone either on a cut
14 above or below the reference frame, and
15 you can't always be sure whether that
16 actually represents a separate fragment,
17 or whether it is just simply the bottom
18 part of a slightly asymmetric projection of
19 the bone, and that is my difficulty in
20 identifying what he thinks are free
21 Fragments -

22 In other words, any structure of
23 bone here that is not clearly attached to
24 same other bone on any individual frame
25 here could simply be part of a bone on a

1 frame above or below.

2 Q Then how do you tell if there are

3 bone fragments in the lumbosacral spine?

4 A That could be a very tricky thing.

5 Q You can't do it?

6 A You can do it, but it *is* tricky. It

7 can be a difficult thing to determine.

8 Q Is there nothing in the D-2 series

9 that suggests the possibility that you

10 have got some free bone fragments?

11 A I think that what Dr. Xartz was

12 referring to, as you said, was 6, 7 and 9,

13 and the only parts of bones that I can see

14 -- I don't know what he was referring to,

15 quite honestly, but trying to reconstruct

16 his thinking, here is one that *is* not

17 clearly attached to that bone, and here is

18 another one that is not, so I am assuming

19 that those are the ones that he is

20 referring to, however, there is also on

21 film No. 8, three fragments that aren't

22 clearly attached to a bone, which he did

23 not decide were bone fractures for some

24 reason.

25 Q What about you?

1 A That is my point. If any of these
2 are, you know, why aren't these fractures,
3 both these are.

4 Q Can you find whether those are
5 attached above and below on the next
6 slice?

7 A No.

8 Q And that is also true of, for
9 instance, this spot, you can't tell
10 whether that is attached to something
11 above or below?

12 A Right, but I can on these. He has
13 decided that those are not fractures so--

14 Q This and this?

15 A Right.

16 Q Aren't those pretty much --

17 A There is a class.

18 Q On slice No. 8, these triangular
19 bones, you are saying you can't tell
20 whether those are free fragments or normal
21 bony elements either?

22 A Correct.

23 Q Are any of those artifacts?

24 A No, I don't think so.

25 Q On the abdominal series do you see

1 any free fluid there?

2 A In the abdomen?

3 Q Right, either on O-1 or D-3?

4 A I don't believe there is free fluid
5 in the abdomen.

6 Q And in the lateral reconstruction?

7 A Yes.

8 Q In the upper right-hand corner is
9 there any representation of the facets at
10 L-5, S-1?

11 A I can't tell where the facets are on
12 that.

13 Q So, you can't tell whether those
14 facets are normal or abnormal on that
15 reconstruction?

16 A No.

17 Q In sagittal reconstruction No. 9, can
18 you point that one out to us? Do you see
19 anything that looks like a free bone
20 fragment?

21 A Not really. I don't think these are
22 really helpful, to be very honest with
23 you.

24 Q Let me just clear up what you have
25 opinions about and don't have opinions

1 about. Do you have an opinion as to
2 whether surgery would have been necessary
3 or done sooner if a dislocation at L-5, S-
4 I had been diagnosed from the films at
5 Willcrest Hospital?

6 MR. GROEDEL: Objection.

7 A I think, really, that is a surgical
8 judgment.

9 BY MR. SCHARON:

10 Q That is not something you have an
11 opinion about?

12 A NO.

13 Q Do you think that the rarity of a
14 lumbosacral Facet dislocation excuses a
15 radiologist from seeing it or not?

16 MR. EROEDEL: Objection.

17 BY MR. SCWARON:

18 Q Or from not seeing it?

19 MR. GROEDEL: Objection.

20 In this case or in every other case?

21 MR. SCHARQN: Let's start
22 out in general and become specific.

23 A I think the fact that it is rare, it
24 is difficult to identify it even when it
25 is present, it makes it very unlikely that

1 the radiologist is going to pick it up
2 without some really gross findings.
3 BY MR. SCHARON:
4 Q Gross radiologic findings?
5 A Yes, and I think that is exactly what
6 would happen in the everyday practice of
7 radiology, including at good institutions.
8 Q And you also think that is true in
9 this case?
10 A Yes, I do.
11 Q You don't see any gross evidence of
12 lumbosacral facet dislocation in any of
13 these films?
14 A No.
15 Q Do you agree with the statement that
16 in order to see hemorrhage into the fecal
17 sac, you usually need to have a CT done
18 with contrast in the spinal canal?
19 A In the fecal sac, actually injected,
20 like you would a myelogram?
21 Q Right.
22 A You said usually?
23 Q Yes.
24 A I think it would make it more -- it
25 would make it easier to diagnose that,

1 yes, if that is in answer to your
2 question.

3 Q It is, and the following question
4 would be if you were looking at the CT
5 scan in this D series, and looking for
6 hemorrhage into the fecal sac, do you
7 think it likely that you would *see it* on
8 that study if it was there?

9 A You might or you might not. I
10 couldn't be sure of that.

11 Q Going back to that statement in that
12 Manaster & Osborne study --

13 A Yes.

14 Q -- that a radiologist should be able
15 to identify the facets and know what their
16 normal relationship is --

17 A Yes.

18 Q -- do I understand you to say that
19 even a hoard certified radiologist, prior
20 to the publication of that study, would
21 not have been trained or able to identify
22 that?

23 MR. GROEDEL: Excuse me.
24 In this case or generally?

25 MR. SCHARON: We will do

1 both.

2 A I think that in general it is a
3 subtle enough finding, that a lot of
4 radiologists might not have come across it
5 in their training, would not be expert at
6 discerning the few degrees difference in
7 the orientation of what appears to be the
8 facet when it really isn't the facet, the
9 facet joint that is.

10 BY MR. SCHARON:

11 Q Board certified or not?

12 A That is correct. It is a subtle
13 distinction. If you look at the
14 orientation between the normal facet joint
15 and what they are describing as sort of an
16 abnormal, pseudo facet joint, it isn't
17 something that smacks you right between
18 the eyes-

19 (At this time a discussion
20 was had off the record.)

21 BY MR. SCHARON:

22 Q Do you remember anything else? I
23 guess this is sort of a memory test,
24 although it is *not* meant to be that way.
25 Do you remember anything else that Dr.

Hartz said, that you disagree with? I am not asking you to remember everything in his deposition.

MR. GROEDEL: Yes, you are.

MR. SCHARON: No, I am not. If he later says I don't remember that and I disagree with it, that is okay and that is on the record.

A The only thing that I remember fairly clearly is his general conclusion, and that is that it was his opinion that there was an acute facet dislocation that was clearly demonstrated on the x-ray findings, and that it was, therefore, not within the standard of care not to have diagnosed that, and I don't agree with that.

Q As I understand it, you are not willing to admit that those films show it?

A I think they are suggestive on that one film, the one.

Q Slice 7 on D-2?

Slice 7, that there is a question as to the normal orientation of what is

1 either the facet or pseudo facet joints.

2 Q You are saying that is suggestive of
3 a dislocation?

4 A I think that it is.

5 Q But it is not below acceptable
6 standards not to interpret that?

7 A That is what I think.

8 Q Pars defects, can you see any pars
9 defects on these?

10 A I don't see any clear pars defects,
11 but that also, by the way, could be
12 difficult to identify on a CT. In this
13 case were it something entirely different,
14 like it actually were an acute pars
15 defect, and we are going through the same
16 process, it is quite possible that it
17 would be a subtle thing that either was
18 not demonstrated or faintly suggested, and
19 that we could have had the reverse
20 situation where it was an acute pars and
21 we had not diagnosed it.

22 (At this time a discussion
23 was had off the record.)

24 BY MR. SCHARON:

25 Q Am I right, you have not seen these

1 films from Metro?

2 A That is correct.

3 Q This is 8-8-86. That is a plain
4 film, lateral.

5 A Now, this is approximately how long
6 after?

7 Q A little over five months, and 8-11-
8 86.

9
10 Q Let me give you the rest of the plain
11 films, and I don't know if you have
12 any more, marked 8-8, 8-11-86, which look
13 to be intra-operative or post-operative
14 films.

15 A Right.

16 Q Can you tell what they are doing in
17 those films?

18 A There are some sort of rods and
19 surgical instruments that are demonstrated
20 on these films, and unless you told me

wouldn't know.

23 (?) You don't know what an intra-
24 operative film of a fusion looks like, do
25 you?

1 A Well, it could be that you have a
2 placement of Harrington rads, and a fusion
3 would be compatible with that.

4 Q There are two films dated 8-8-86,
5 plain films.

6 A Okay.

7 Q What do they tell us about the
8 spondylolisthesis in a little over five
9 months?

10 A I think it is more exaggerated.

11 Q Well, more like third degree now?

12 A Yes, closer to that.

13 Q Can you determine whether there are
14 any pars defects?

15 A I can't really tell. There appears
16 to be a defect in bony continuity back
17 here between L-5 and S-1, and I don't know
18 if that is a crack in that pars, or what
19 it is, but it does look like there is a
defect.

21 Q Can you tell whether the lumbosacral
22 facets are normal or abnormally aligned?

23 A I can't really tell. I don't know.

24 Q You can't tell from this 8-8-86 set,
25 whether the spondylolisthesis is chronic

1 or acute solely from the film?

2 A No, I don't think you can.

3 Q You don't see any transverse process
4 fractures?

5 A No. You would never be able to see
6 that on this.

7 Q And this series is marked D-1 through
8 4. Before we go to that, I found a
9 smaller film dated 8-8-86. What do we
10 have here?

11 A We? have some needles with tubing, and
12 we have some radiopaque contrast material
13 that has been injected by those needles.

14 Q What part of the spine are we looking
15 at?

16 A I think we are looking at the low
17 lumbar spine.

18 Q Posterior-anterior?

19 A Yes.

20 Q From back to front?

21 A Yes.

22 Q And can you tell anything about the
23 alignment of the facets on that film?

24 A I can't diagnose a facet dislocation,
25 if that is what you mean.

1 Q Well, do they look *to* be normal?

2 A These facet5 that I do *see*, which are

3 probably L-3, L-4, look like they are

4 aligned to me.

5 Q What about as you go down L-5, S-1?

6 A I can't see it clearly.

7 Q Again, no transverse process

8 fractures on those films?

9 A I might question whether or not there


10 is on the right side here at what I think

11 represents L-4.

12 MR. SCHARON: Let's mark

13 that as F-1.

14 (At this time Defendants'

15 Exhibit  was marked by the reporter.)

16 BY MR. SCHARON:

17 Q Now, as respects the lumbosacral

18 spine on this series E-1 through 4, what

19 is your interpretation of this series?

20 What do you see here? Let's start with

21 pars defects, or is it, again, tough to

22 see on the CT?

23 A I th-ink it is, I mean I don't see

24 anything real clearly on a cursory

25 examination of this, that looks like it.

1 There is some discontinuity, once again,
2 of bony structures, but they may or may
3 not represent fragments or portions of
4 bone you are coming in and out of, and -it
5 is difficult for me to diagnose a facet
6 dislocation on these.

7 Q On E-1 let's identify that slice. Is
8 that the lumbosacral level again?

9 A Yes.

10 Q L- 5, S-1?

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19 because you may be seeing one facet here

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23 through 4 would you, as a radiologist,
24 report: a suspicion that you have got
25 lumbosacral facet dislocation?

1 A No, I wouldn't.

2 Q Would you want to report anything

3 about whether the spondylolisthesis was

4 long-standing or acute?

5 A I would probably suspect it was long-

6 standing again.

7 Q And, again, I am looking at this

8 particular set. What kind of films are

9 those?

10 A These are reconstructions.

11 Q Those reconstructions on E-2, which

12 are the bottom frames.

13 A I don't think they are helpful in

14 diagnosing that.

15 Q Nor do they show any bone fragments?

16 A Not unequivocally, no.

17 Q And as a radiologist you would want

18 to report any suggestion of bone

19 fragments?

20 A I might wonder if some of *these* back

21 here -- I don't even know what numbers

these are here.

23 Q Let's see, you are referring to E--2

24 and -- why don't you just refer to them by

25 their location?

1 A On the bottom six there are some ends
2 of the bones which are not clearly
3 attached and, you know, perhaps could
4 represent -Fractures, but I don't know that
5 I would have confidence enough to say
6 that.

7 Q Understanding the difference between
8 confidence enough to say it and not, in a
9 diagnostic sense would you suggest their
10 possibility if you were the radiologist?

11 A I don't think so.

12 (At this time a discussion
13 was had off the record.)

14 BY MR. SCHARON:

15 Q Do you have any interest in seeing
16 the April, '87 films?

17 A I will pass on that.

18 Q Just so you can't say you haven't
19 seen it --

20 MR. GROEDEL: Suburban?

21 MR. SCHARON: Yes.

22 BY MR. SCHARON:

23 Q Have you seen the Suburban films?

24 A No.

25 Q This is marked Defendants' Exhibit A-

1 3, and it is dated 9-20-85, and A-1, which
2 is also 9-20-85, and A-2, and that one, I
3 don't think, has a date on it. There are
4 two other films that haven't been marked
5 in that series.

6 Assuming that this is marked the
7 Green spine, what is your interpretation
8 of this?

9 A These show a little mild eburnation
10 here at L-4 and 5.

11 Q The same as we saw at Hillcrest?

12 A Yes, pretty much, and beyond that it
13 looks essentially like a negative lumbar
14 spine.

15 Q She has got no spondylolisthesis in
16 November, '85?

17 A I don't see any.

18 MR. GROEDEL: September,
19 '85.

20 MR. SCHARON: What did I
21 say?

22 MR. GROEDEL: November.

23 A No, I don't see any.

24 BY MR. SCHARON:

25 Q No obliques here either?

1 A No obliques.

2 (At this time a discussion

3 was had off the record.)

4 MR. SCHARON: Let's go

5 back on the record.

6 BY MR. SCHARON:

7 Q We have films from October of '86.

8 Included in those are obliques.

9 A Yes. What was the date of the first

10 surgery?

11 MR. GROEDEL: April.

12 MR. SCHARON: Was April

13 the first surgery?

14 MR. GROEDEL: I think so.

15 No, I am sorry, it was August.

16 MR. SCHARON: August of

17 '86 was the first surgery?

18 MR. GROEDEL: august of

19 '86

20 MR. SCHARON: It was an

21 attempted fusion in situ, and they were

22 unable to reduce the dislocation.

23 BY MR. SCHARON:

24 Q Can you tell me whether or not there

25 is what we talked about before as being a

1 garden variety spondylolisthesis with a
2 pars defect at L-5, S-1?

3 A I can't say that there -- I can see a
4 spondylolisthesis. I don't see a clear
5 disruption of the pars, but it is also
6 kind of difficult to see down here. I
7 think this is probably one pars, and more
8 or less I see the other one, but I don't
9 see a clear disruption.

10 Q As a layman is it appropriate to
11 identify the pars by looking at the shape
12 of this bone as being like a dog?

13 A Right. That is a common way to say
14 it.

15 Q And if you have a disruption of the
16 pars, it looks like the dog is wearing a
17 collar?

18 A Correct. There is a break in the
19 neck.

20 Q And the dogs in this film from 10-'86
21 all have solid necks?

22 A They appear to. It is hard to see at
23 L-5, S-1, but I don't see a clear break.

24 Q There?

25 Yes.

1 Q Based on seeing the films from Metra
2 would you, if you were the radiologist,
3 diagnose a pars defect?

4 A Probably not. That one side is not
5 as well demonstrated as the other, and I
6 might have wondered about the other.
7 There is not a real clear demonstration of
8 a pars defect.

9 MR. SCHARON: I don't have
10 any other questions.

11 MR. GROEDEL: Mary, do you
12 have any questions?

13 MS. GOLRICK: No
14 questions.

15 (At this time a discussion
16 was had off the record.)

17 MR. SCHARON: Doctor, do
18 you waive s-signature?

19 THE WITNESS: I will waive
20 signature.

21 ---o0o---

22

23

24

25

CERTIFICATE

[illegible]

I, Ronald Stahl, a Notary Public within and for the State of Ohio, duly commissioned and qualified, do hereby certify that the within-named witness, DR. BRIAN F. McNAMEE, was by me first duly sworn to testify to the truth, the whole truth and nothing but the truth in the cause aforesaid; that the testimony then given by the above-referenced witness was by me reduced to stenotype - in the presence of said witness; afterwards transcribed,

correct transcription of the testimony so
given by the above-referenced witness.

I do further certify that this deposition was taken at the time and place in the foregoing caption specified and was

1 completed without adjournment.

2 I do further certify that I am not a
3 relative, counsel or attorney for either
4 party, or otherwise interested in the
5 event of this action.

6
7 IN WITNESS WHEREOF, I have hereunto
8 set my hand and affixed my seal of office
9 in Cleveland, Ohio, this 4th day of
10 May, A.D., 1989.

11
12
13 Ronald Stahl

14 RONALD STAHL, Notary Public

15 Within and *for* the state of Ohio

16 My commission expires 7-26-91

17
18
19
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