

THE STATE OF OHIO,)
) SS: THOMAS J. POKORNY, J.
 COUNTY OF CUYAHOGA.)

IN THE COURT OF COMMON PLEAS

Doc. 293

ANDREW VARCHO, et al.,)
)
 Plaintiffs,)
)
 v.) Case No. 115717
)
 WILLIAM MAST, M.D.,)
)
 Defendant.)

- - -

Deposition of WILLIAM MAST, M.D., taken
 by the the Plaintiffs as if upon cross-examination
 before Lorraine J. Klodnick, a Registered Professional
 Reporter and Notary Public within and for the State of
 Ohio, at the offices of Jacobson, Maynard, Tuschman &
 Kalur Co., LPA, 100 Erieview Plaza, Cleveland, Ohio,
 on Wednesday, the 24th of February, 1988, commencing
 at 2:37 p.m., pursuant to notice and agreement of
 counsel.

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1 APPEARANCES :

2 Kaufman & Cumberland, by:
3 Frank DeSantis, Esq.,

4 On behalf of the Plaintiffs.

5 Jacobson, Maynard, Tuschman & Kalur Co., LPA, by:
6 Michael Hudak, Esq.,

7 On behalf of the Defendant.

8 - - -

9 STIPULATIONS

10 It is stipulated by and between counsel for
11 the respective parties that this deposition may be
12 taken in stenotypy by Lorraine J. Klodnick; that her
13 stenotype notes may be subsequently transcribed in the
14 absence of the witness; that the reading and signing of
15 the deposition by the witness were expressly waived;
16 and that all requirements of the Ohio Rules of Civil
17 Procedure with regard to notice *of* time and place of
18 taking this deposition are waived.

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WILLIAM MAST, M.D.,

a Defendant herein, called by the Plaintiffs for the purpose of cross-examination, as provided by the Ohio Rules of Civil Procedure, being by me first duly sworn, as hereinafter certified, deposes and says as follows:

CROSS-EXAMINATION

BY MR. DeSANTIS:

Q. Doctor, my name is Frank DeSantis and I represent the plaintiff in this case. I'm going to ask you a series of questions. I'm sure you probably have been through this before, but if at any time I'm not understandable or I'm not trained in medicine so if I say something that's unintelligible or incorrect, please straighten me out or ask me to repeat the question, I'll try to make it understandable. If you don't make any corrections, I'll assume you understand the question.

A. Very good.

Q. Could you state your name, please?

A. William Mast.

Q. Your profession?

A. I'm an orthopedic surgeon.

Q. You specialize in orthopedic surgery?

A. Yes, sir.

1 Q. Are you board certified?

2 A. Yes, sir.

3 Q. Where do you currently have hospital
4 privileges?

5 A. Hillcrest Hospital. I'm on consulting staff
6 at Euclid General, and at Huron Road, and I'm an
7 associate clinical professor of orthopedics at Case
8 Western Reserve.

9 Q. Okay. Could you briefly relate your
10 educational background?

11 A. Beginning with college?

12 Q. Yes, please.

13 A. I graduated from Colgate University in 1954.
14 I graduated from the University of Rochester School of
15 Medicine in 1958. In 1959 to 1959, I was an intern in
16 internal medicine at University Hospitals of Cleveland.
17 From 1959 to 1960, I was a first year resident in
18 internal medicine at University Hospitals of Cleveland.
19 From 1960 to '61, I was a first year resident in surgery
20 at University Hospitals of Cleveland and Cleveland VA
21 Hospital, and from 1961 to 1964 I was an orthopedic
22 resident at University Hospitals of Cleveland. From 1964
23 to September of 1968, I was on the full time teaching
24 staff of University Hospitals of Cleveland. From 1968 I
25 went out into private practice.

1 Q. You've been practicing your specialty since
2 1968?

3 A. Yes, sir.

4 Q. And generally, what courses did you teach
5 while at University and presently?

6 A. It was training, conferences, surgery, in the
7 operating room.

8 Q. Okay.

9 A. The conferences of all aspects of orthopedic
10 surgery.

11 Q. Okay. And have you published any articles
12 or texts?

13 A. I published articles, yes.

14 Q. I don't want to have you list them if there
15 are an abundance of them.

16 A. I can tell you the topics.

17 Q. Please.

18 A. The Effect of Cortisone on Intra-articular
19 Cartilage of Arthritic Joints; Problems of Shoulder
20 Disease; Tendon Transfers in Quadriplegic Individuals
21 to Improve Hand Function. Basically, that's it.

22 Q. Any articles in the area of surgery on the
23 spine, or in particular the lumbar area?

24 A. No, I haven't.

25 Okay. And you are licensed to practice in

1 Ohic?

2 A. Yes, sir.

3 Q. Have you ever had your license to practice
4 revoked?

5 A. No, sir.

6 Q. Have you ever had your privilege to practice
7 at any hospital revoked?

8 A. No, sir.

9 Q. In your professional capacity, you treated
10 an individual by the name of Andrew Varcho, is that
11 correct?

12 A. Yes, sir.

13 Q. When did you first treat Mr. Varcho?

14 A. I first treated Mr. Varcho in June of 1978.

15 Q. What was that for?

16 A. For symptoms of degenerative arthritis of
17 the knees and left shoulder.

18 Q. Did you operate on him at that time?

19 A. No, I did not operate on Mr. Varcho until
20 October of 1978.

21 Q. What was the nature **of** that surgery?

22 A. He had bowing deformity of the left knee as a
23 result of arthritis and I performed a tibial osteotomy,
24 divided the tibia in an attempt to straighten.

25 Q. Okay. And did you treat Mr. Varcho on any

1 other occasions prior to the spine surgery?

2 A. Yes. Several times in the office in the
3 late '70s. In October of 1980, he had an osteotomy,
4 again, of the tibia, on the right leg, for the
5 deformity and arthritis. And again, during 1980 and
6 '81, I followed him with respect to those symptoms.

7 Q. Okay.

8 A. In 1982, I performed arthroscopy of the right
9 knee because of increasing symptoms of degenerative
10 arthritis.

11 Q. Okay. Any other surgeries prior to that?

12 A. In October of 1982, he underwent a total knee
13 arthroplasty of the right knee. And then again followed
14 him in the office periodically until he was admitted to
15 the hospital in September of 1984.

16 Q. Okay. When did you first see Mr. Varcho
17 with respect to his problems with his spine?

18 A. Well, it may have begun in June of 1984. He
19 was complaining of more and more pain, general weakness
20 of the upper and lower extremities, particularly weakness
21 in the right greater than left lower extremity. He had
22 marked weakness in his hand musculature, and
23 complained -- complained of numbness and tingling in the
24 feet. I was concerned he had either a demyelinating
25 disease of the central nervous system, that he had a

1 muscular dystrophy type of disease. And his internist is
2 Dr. Robrock, and what I did was to call Dr. Robrock and
3 told him my concern and asked him to go ahead and
4 evaluate as he saw fit.

5 Q. And when you ~~ezid~~ him in June of '84, he was
6 complaining of the symptoms that you've articulated.
7 Were those complaints to you?

8 A. No me in the office.

9 Q. He was seeing you with respect to the
10 problems you treated him with before or --

11 A. No. He just came in with these complaints.
12 I had ~~treated~~ him for years and he just said, This is
13 going on, and I was struck by the fact that he had upper
14 and lower extremity complaints of significant concern.
15 I had no idea exactly what it was. I said that I
16 would call Dr. Robrock, and I did.

17 Q. When was the next time you saw Mr. Varcho?

18 A. I saw him next in the hospital in September
19 of 1984

20 Q. Okay. Now in ~~someon~~ refer r Varcho to
21 you at that time w th ~~respe~~ct to this ~~pro~~blem?

22 A. Dr. Muc~~X~~er a neurologis and Dr. Robroc~~X~~ his
23 internist asked me to see him A m logram had been
24 performed which ha~~w~~ in~~dic~~ted that most a block at the
25 level of L3

1 Q. Okay. Did you examine Mr. Varcho at that
2 time?

3 A. Yes.

4 Q. Do you have any notes of your first --

5 A. **No** notes of the hospital.

6 Q. There were notes taken, but they would be in
7 the hospital records?

8 A. Yes, sir.

9 Q. Do **you** remember the date of that
10 examination?

11 A. No, sir.

12 Q. You would have taken a history at that time?

13 A. Yes, sir. And it was a continuation of
14 what Mr. Varcho had told me three months prior when it
15 was much worse, his symptoms were much worse.

16 Q. What further symptoins did he --

17 A. Increasing pain in both lower extremities,
18 numbness in his **legs** and feet.

19 Q. Anything else?

20 A. No. Historically, no, sir.

21 Q. Did you receive any information from either
22 Dr. Tucker or Dr. Robrock at this time?

23 A. We talked about it and **I** went over his
24 x-rays with Dr. Tucker and with the radiologist.

Q. Was anything else beside the myelogram done

1 at that time?

2 A. I do not believe so, sir.

3 MR. DeSANTIS: Okay. Mark this.

4 (Plaintiff's Deposition Exhibit 1 marked
5 for identification)

6 Q. (BY MR. DeSANTIS) I've handed you what's been
7 marked as Exhibit 1. I wonder if you could identify
8 that?

9 A. It is a report from Hillcrest Hospital,
10 x-ray, August 28, 1984, amipaque myelogram.

11 Q. And would you have reviewed this report at
12 the time that you saw Mr. Varcho in September of 1984?

13 A. Yes, sir.

14 Q. With respect to the symptoms you indicated
15 earlier that Mr. Varcho expressed to you in September
16 of '84, the increasing pain in both lower extremities
17 and numbness in the legs and feet, what significance
18 did those symptoms have to you at that time with
19 respect to his condition?

20 A. Combined with the myelogram and my
21 conference with Dr. Tucker and Robrock and Dr. Foxman, the
22 radiologist who performed the myelogram, I thought
23 they were quite consistent with the x-ray findings of
24 almost a complete block.

25 Q. Did you make a diagnosis at that time?

1

A. Yes, I did.

2

Q. What was that diagnosis?

3

A. Felt that he had marked spondylosis spinal
4 stenosis.

5

Q. Did you make a recommendation for treatment
6 at that time?

7

A. Because he had had increasing pain, and it
8 was progressively severe since I had seen him through
9 months previously I felt he would need surgery by a
10 surgical laminectomy exploratory laminectomy of the
11 spine.

12

Q. Dr. Most could you define for me what a
13 laminectomy is?

14

A. Yes a laminectomy means different things
15 to different people. Can I have a piece of paper?

16

MR. DESANTIS: I have another exhibit I
17 was going to mark. Let me do that mark that will
18 facilitate things. I only have an overview.

19

(Plaintiff's Deposition Exhibit 2

20

was marked for identification.)

21

Q. (BY MR. DESANTIS) Handing you what's been
22 marked as Exhibit 2, I ask you -- you've already
23 partially identified it.

24

A. It's a cervical vertebrae. Outline of a
25 cervical vertebrae, which is not really a lumbar

1 vertebrae.

2 Q. Okay. How would it differ from a lumbar
3 vertebrae?

4 A. Lumbar vertebrae, the body is much bigger,
5 there are pedicles that come out from the body like
6 this and then the facet joints are here and here.

7 Q. For the record, the here and here are the --

8 A. I will mark this. These are the pedicles,
9 these are facet joints and a facet joint is -- it's
10 just like a regular cartilage joint with movement, has
11 its own articular cartilage, its own joint fluid here.
12 And then the lamina comes up like this, joins in the
13 midline and then has a spinous process that comes off
14 here. This -- and this is very crude, but it's a
15 critical difference between an overview of a cervical
16 vertebrae versus a lumbar vertebrae.

17 Q. I understand.

18 A. These are the pedicles here. Now, a
19 laminectomy, and let me draw now -- this is an axial
20 view. Now, a view from behind or a dorsal view, I'm
21 no artist.

22 Q. I understand.

23 A. This is a view of two lumbar vertebrae seen
24 from behind.

25 Q. Okay.

1 A. This is the spinous process, this is the
2 lamina, this is the facet joint. This in between the
3 lamina is the liagmentum flavum or the yellow
4 ligament. Now, before I tell you what a laminectomy
5 is, let me tell you if you want -- where Mr. Varcho
6 had his problems or where arthritis develops in the
7 spine because arthritis, when someone says arthritis,
8 you don't get arthritis of bones, you only get arthritis
9 in the presence of true synovial joints. The arthritic
10 process begins at the facet joint. And actually is --
11 it's a painful condition with the deterioration,
12 degeneration of the articular cartilage here and here.

13 In addition to that, reactive bone is formed.
14 The body in an attempt to heal or whatever, whichever
15 etiologic argument you want to give, begins to enlarge
16 the masses that form this canal so the canal actually
17 becomes narrowed in its diameter, both from front to back
18 and side to side.

19 A laminectomy, when I -- and when orthopedic
20 surgeons do laminectomies, what we do, we excise part of
21 the tips of the spinous process, not the whole thing, and
22 we remove the liagmentum flavum here, excise that, and we
23 remove part of the lamina of the adjacent vertebrae for
24 whatever we're doing. If you completely excise the facet
25 joints and the lamina, you have effectively destabilized

1 the spine because the spine then is left with only the
2 weak ligaments, front and back, to sustain this
3 superimposed body.

4 So what one does is to remove, in the affected
5 area that you're doing the laminectomy, the ligamentum
6 flavum, the adjacent, and it could be held -- excise as
7 much of this as you need to. You go down and when you get
8 down there, you're looking at the dura, and in the low
9 lumbar region, you're looking at dura, You mobilize the
10 dura and find the nerve root peeling off underneath here,
11 and you unroof the bone overlying the nerve root.

12 Q. Okay. Let me ask one question from that
13 explanation. When you say you excise as much of the
14 lamina as you need to, how do you determine how much
15 you need to excise?

16 A. That's a good question. What I do is to
17 excise as much as I need to to see the nerve root, but
18 not trying to destabilize the spine. In other words,
19 trying not to get into the facet joints. I remove the
20 osteophytes that are adjacent around it, but I don't -- I
21 try not to do anything to the facet joints. Now, the
22 reason that that's -- when you say what is a laminectomy,
23 it's a good question because what this really is is a
24 laminotomy.

25 Q. That was going to be my next question.

1 A. This is really a laminotomy, but it's
2 always -- it's one of the times in medicine when I say
3 laminectomy -- I've said laminectomy for my entire
4 professional career. It's really a laminotomy.

5 Q. Okay.

6 A. But I've never dictated it as such. And
7 even I had to -- in the orthopedic literature, they talk
8 about laminectomies. What they really mean are
9 laminotomies, and I don't know why.

10 Q. Is there such a thing **as** a laminectomy as
11 distinguished from what you just described as a
12 laminotomy? **Is** there a procedure that someone might
13 identify as a laminectomy that differs from what
14 you've explained and categorized as a laminotomy?

15 A. I believe so, sir.

16 Q. What would that be?

17 A. If you do indeed completely take out the
18 posterior elements, and that is a complete laminectomy,
19 but I would describe that as excision of the posterior
20 elements because you're not only taking out the lamina,
21 you're taking out the spinous process, and if you take
22 out the lamina, you're also taking out the facet joint.
23 So when you do that, to me, as an orthopedist, and it's
24 basically structural, I'm tuned, I think, of it, that to
25 me is destabilized as an orthopedist. It's a complete

1 total laminectomy or it's an excision of the posterior
2 elements. But that's exactly -- your point **is** well
3 taken. What I say and what orthopedic surgeons are going
4 to say, **I'm** going to do a laminectomy for this, we do
5 laminotomies.

6 The neurosurgeons that **I** have scrubbed with
7 and recently doing posterior approach for a laminectomy,
8 the neurosurgeon asks that **I do** fusion on each either
9 side of the spine. He said, I'm doing a laminectomy. His
10 laminectomy was a laminotomy, but it depends. And so a
11 real definition of terms as an art, basically, yes, what
12 we do and what
13 we have always done is a laminotomy.

14 Q. Let me ask you this. In your opinion, when
15 would you want to do what might precisely -- or **I** don't
16 want to use precisely, but what you might call -- rather
17 than say laminectomy, why don't we say an excision of
18 the posterior elements?

19 A. I wouldn't excise the posterior elements
20 under circumstances when one has had failure of -- if I
21 do a laminectomy for disk or for degenerative arthritis
22 and it doesn't work, then **I go** back in and say, okay, I
23 would excise the posterior elements, and I get involved
24 in that as an orthopedist because I occasionally am
25 called upon to perform fusions at the same time.

1 Q. Okay. Why would it not work? Why would a
2 laminotomy not work?

3 A. Two reasons. One is the formation of scar
4 tissue, which in that region is properly referred to as
5 adhesions. The other reason is that there is --
6 arthritis is an ongoing degenerative process. As long as
7 the articular cartilage is degenerating and
8 deteriorating, you will get bony proliferation. As these
9 facet joints continue to move, you may get bony
10 proliferation. The tolerance in this region are very
11 close. An eighth of an inch, quarter of an inch can mean
12 a difference between not much pain and agonizing pains.
13 It's very close tolerances.

14 And what one does when one does a laminectomy
15 is to unroof and decompress the nerve roots and try to do
16 it without destabilizing the spine, which is going to
17 give you possibly, potentially more problems. This is a
18 situation in which it's really an art and not a science
19 and I can say that, well, we'll do this and it's going to
20 be better .

21 Nobody really knows because you can't -- it's
22 not a pure mathematical thing. I can say, we're going to
23 do this and do it, and the patient may do fine, may not
24 do fine. This is the problem. And then when one says,
25 Okay, that hasn't worked, we're going to unroof

1 everything, they may do fine for six months, six years
2 and then begin to get into trouble. And then it may --
3 if they do, it could be as a result of displacement of
4 the bones. If they settle and ride like continental
5 shelves moving one on another slowly, they may kink the
6 whole dura, make it twist, make it in the side view. If
7 one is supposed to be on top of another and it begins to
8 move a little bit, and this can happen in months, it can
9 happen in years, then they begin to get a bend or a tilt
10 in the dye column with the myelogram, then they begin to
11 get pain.

12 Q. What you're just describing is what could
13 occur if you excise the posterior elements?

14 A. Yes.

15 MR. HUDAK: Let me interrupt here for
16 one minute, Mr. DeSantis, so I'm clear on this. We're
17 still talking about a general surgical procedure and
18 not a specific patient, is that correct?

19 MR. DeSANTIS: You bet. Yes, sir.
20 Thank you. Could you read back the question and the
21 answer? I'm not sure I heard it.

22 (Record read.)

23 Q. (BY MR. DeSANTIS) Let me ask this. The
24 reason you do a laminotomy is to relieve the
25 compression?

1 A. Yes, sir, to relieve pain.

2 Q. What is a foraminotomy?

3 A. Foraminotomy is really a condition which
4 varies very little from a laminectomy, a laainotomy.
5 It's when having made windows in the adjacent lamina,
6 one identifies the nerve root and then unroofs the
7 nerve root with the punch or Kerrison rongeur so the back
8 of the nerve as it exits from the spinal canal to the
9 outside so that the nerve root is decompressed so that
10 the roof is off at the back of
11 the nerve.

12 Q. Okay. What is a facetectomy?

13 A. Facetectomy is to excise these facet joints
14 here, It's part of the removal of the posterior
15 elements.

16 Q. Okay.

17 A. And would imply that you are doing total
18 laminectomy, which includes the facet joints, the lamina
19 and the spinous process.

20 Q. Okay. When one uses the term decompressive
21 laminectomy, in your mind, would that differ at all
22 from what you've just described as a laminotomy?

23 A. This is what I would call decompressive
24 laminotomy, to **be** more accurate.

25 Q. Okay. Could you tell me what you mean by

1 spinal stenosis?

2 a. Spinal stenosis is this condition, if you
3 again look at the axial view of my elaboration of the
4 vertebrae.

5 Q. That appears on the upper portion of
6 Exhibit 2, for the record?

7 A. Yes, sir. This is the facet joint. This
8 is the bony process arising from the body which is
9 referred to as the pedicle and the lamina is the roof on
10 top. Spinal stenosis is a condition in which as the
11 cartilage of the facet joint begins to degenerate, just
12 like any synovial joint whether it's the knee joint or
13 the finger joint, you begin to get hypertrophy of bone
14 adjacent to the facet joint. And it doesn't make any
15 difference where it is except when it begins to encroach
16 on the nerve, then you begin to get pressure on the nerve
17 and symptoms. **It's** an insidious, initially insidious and
18 very slowly progressive thing.

19 Q. Okay.

20 A. But spinal stenosis is also referred to as
21 lumbar, for example, lumbar spondylosis. It refers
22 primarily to a degenerative process of the spine.

23 Q. Is nerve root compression the same as spinal
24 stenosis?

25 A. Nerve root compression implies that the

1 osteophytes, these bony masses which have been produced
2 as a result of the degenerative process on the facet
3 joint, it implies that these bony masses impinge upon the
4 nerve root itself --

5 Q. Okay.

6 A. -- and produces symptoms. That's implied or at
7 least inferred by most of us that when that occurs then
8 you have symptoms.

9 Q. What about the symptoms you would expect
10 from someone with spinal stenosis?

11 A. It depends. It is usually not clear cut
12 dermatome pattern because it is diffuse in the lumbar
13 spine and the degree of compression of the nerve root
14 may vary from level to level and from time to time
15 depending on reactive swelling around the nerve root
16 and a host of factors. One thing that occurs usually
17 is pain, paresthesia, which is numbness and tingling.
18 The pain, as I say, does not really follow a dermatome
19 pattern necessarily because this is usually a diffuse
20 disease.

21 Q. When you say symptoms of pain and
22 paresthesia, in any particular location?

23 A. That's why I say it can vary. It can be
24 thigh, can be calf, can be front and back side, could be
25 feet. Paresthesia can be in the legs. It really, you

1 know, it's really difficult to try to say it's at this
2 level or this level.

3 Q. But it would be in the lower extremities?

4 A. Yes, in the lumbar spine. It's in the lower
5 extremities.

6 Q. You wouldn't manifest a symptom in your back
7 if you had lumbar compression?

8 A. I don't understand.

9 Q. Well, would there typically be any
10 manifestation of pain and paresthesia in someone's back
11 if he was suffering from a spinal stenosis in the
12 lumbar area?

13 A. They would have back pain.

14 Q. Back pain?

15 A. Yes, sir. They would have back pain.

16 Q. Do you have an opinion as to what caused
17 Mr. Varcho's spinal stenosis as of September of 1984?

18 A. I believed it was due to degenerative
19 arthritis of the facet joints, progressive degenerative
20 arthritis. In addition to that, as the -- it goes hand
21 in glove with degenerative arthritis and degenerative
22 disk disease so that as the cushions, the fibrocartilage
23 cushions which separate the lumbar vertebrae deteriorate,
24 the bones get closer together. As the bones get closer
25 together, because the window or neuroforamen through

1 which the nerve exit **is** made up of adjacent vertebrae as
2 they settle down, one closer to another, the window is
3 going to be partially closed just as a result of
4 settling, so that it is both a combination of
5 degenerative arthritis of the facet joints and
6 degenerative disk disease that allows
7 the window, neuroforamen, to begin to partially close.

8 Q. Okay. Thank you. Now, prior to operating
9 on Mr. Varcho, had you made a decision with respect to
10 what type of operation you were going to perform?

11 A. Yes, sir.

12 Q. What was that?

13 A. I was going to do decompressive laminotomy
14 and unroof the nerves, or foraminotomy.

15 Q. And did you prior to the operation know
16 what level you were going **to** do that?

17 A. I would start at the level of the block and
18 work down.

19 Q. In this case level 3?

20 A. Yes. sir.

21 Q. Okay.

22 A. That's where most **of** the mischief was. But
23 because -- it's really very difficult because he had
24 symptoms of paresthesia in the feet and had to be some
25 sort of involvement with the distal nerve roots either

1 at the level of L3 or at the level of L4 and 5.

2 Q. Okay. Would you describe generally what
3 procedure, what operation you did do then in September
4 of 1984 with Mr. Varcho?

5 A. What did I do?

6 MR. DeSANTIS: Why don't we mark the
7 Report of Operation, that way you can refer to it if
8 you feel a need.

9 (Plaintiff's Deposition Exhibit Nos.

10 4 & 5 were marked for identification)

11 Q. (BY MR. DeSANTIS) Just for the record,
12 Doctor, could you identify what I've handed you and what
13 has been marked as Exhibits 3 and 4 respective?

14 A. Exhibit 3 is Hillcrest Hospital report of
15 operation on Andrew Varcho dated 9-4-84.

16 Q. And Exhibit 4?

17 A. Exhibit 4 is Hillcrest Hospital discharge
18 summary dated from September 23rd to September 15th, his
19 admission date.

20 Q. Is that your report of operation and your
21 discharge summary?

22 A. Yes, sir.

23 Q. As dictated by you?

24 A. Yes, sir.

25 Q. And back to my question, could you

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excised and then the adjacent spinous process between the
sacrum and L5 and all the way **up** to L2 were excised, and
then the liagmentum flavum on either side, one at a tine,
was excised and then **a** laminotomy was performed. The
nerve root was identified and followed out to decompress

1 it to -- and I did that successively or serially down the
2 spine.

3 Q. Okay. Now, let me ask you this, Dr. Mast.
4 Did you do anything at the L2 level that you can recall?

5 A. L3. I believe I did L3.

6 Q. That was the first level that you did any
7 work, other than opening Mr. Varcho?

8 A. I did it to L2 it says here.

9 Q. Referring to the report?

10 A. It's about the middle of the operative note.

11 Q. To dissect --

12 A. To the sacrum and proximally to L2. And then
13 carried in a proximal fashion up the left side. What I
14 did was to go from L4, 3, 2 and then did the same thing
15 from -- and I worked from below up,

16 Q. Okay. Did you do the same amount or did
17 you -- was the procedure the same at all of the levels
18 you worked on?

19 A. I tried to do the same, I'm not sure that I
20 did, but I tried to do the same at all levels. My goal
21 at each level wasn't so much symmetry as it was to try
22 to unroof the nerve.

23 Q. Okay. And describe for me what you mean by
24 unroof the nerve.

25 A. What I do is having made the window, this

1 'box-linewindow right here, and then moving the dura
2 over, identifying the nerve root, and then with the punch
3 or with the Kerrison rongeurs moving to the outside so
4 that I have removed the roof off the nerve root and it
5 lies in its bed.

6 Q. Why would you do that?

7 A. Because this is the foraminotomy, and this is
8 what's narrow, but in order to try to reduce the pressure
9 on the nerve, you can unroof it from the top and anything
10 else that seems to be pushing on it, this I think gives
11 them their best chance for pain relief.

12 Q. Okay. And this is maybe a product of my
13 ignorance, but is that what you do to relieve the
14 compression?

15 A. Yes. I relieve -- yes, sir.

16 Q. Do a foraminotomy?

17 A. Or unroofing. It's an attempt to
18 decompress the nerve root here and do a laminotomy,
19 which I always call a laminectomy.

20 Q. How do you know if the compression is --
21 how do you know if compression is relieved at that
22 point?

23 A. I pass an instrument around the nerve
24 underneath the dura to see if there's any extrinsic
25 obstruction. If the nerve lies free in its bed and

1 isn't tented, then I'm content.

2 Q. What do you mean by tented?

3 A. Pull, like taught, if it lies loosely in
4 its bed as opposed to being taught or if I pass the --
5 the instrument looks like -- it's called-- there are a
6 number of them, but that's one that we use that is a
7 delicate instrument that looks a little bit like a hoe, I
8 guess, but it's used to slide along the nerve root to see
9 if there's any obstruction, to see if you can pass
10 through the instrument freely around the root and
11 underneath, past this little skid underneath the nerve
12 root, underneath it. You can feel up and down. And also
13 in this way, to see if you can feel any obstruction. If
14 you can, you try to remove it.

15 Q. Okay. And at the time you operated on Mr.
16 Varcho, did you do that same procedure at all of the
17 levels?

18 A. Yes, sir.

19 Q. That would be 2 through 5 inclusive?

20 A. Yes, sir.

21 Q. Did you feel any obstruction in any of those
22 levels?

23 A. I didn't feel it. I didn't. As I went
24 individually through them, I was content that they
25 were -- that there were -- the nerves lay in their bed

1 gently without being under any tension, not being pulled.
2 I did not feel any obstruction primarily along the
3 undersurface of the dura and under surface of the nerve
4 roots.

5 Q. Is there any other procedure that you're
6 aware of to test whether the compression *is* relieved
7 during this kind of a procedure?

8 A. No.

9 Q. Okay.

10 A. Not offhand.

11 Q. I think I asked this, but just to make
12 sure, the type of procedure you did at each level was
13 the same, you didn't do anything different at the L3
14 as opposed to L4?

15 A. I tried not to. Consciously, I tried to --
16 as I say, it wasn't so much that I tried to do the same,
17 but that I really tried to identify the nerve root and
18 unroof it, to decompress it as widely as I could
19 without jeopardizing the stability.

20 Q. Okay. Do you recall whether in fact the
21 amount of work you did at any level was different?

22 A. I don't recall. And I don't think I'd
23 recall ten minutes afterwards because you're so intent
24 at one level, when you work, you're totally oblivious,
25 at least I am.

1 Q. Referring back to what's been marked as
2 Exhibit 3, there's an underlined sentence, "A
3 foraminotomy was then performed at this level." What does
4 that refer to? What level does that refer to?

5 A. I think it's either type or something -- what
6 I tried to do was foraminotomy at these levels, at the
7 various levels.

8 Q. The next two lines down it says "After
9 complete decompression had been identified as
10 evidenced by easy passage of the dural elevator
11 posteriorly and anterior to the dura along the
12 posterior and anterior longitudinal ligament and easy
13 passage of the dural elevator along the nerve roots, the
14 wound was thoroughly irrigated." That's the procedure
15 you described on the instrument with the instrument you
16 drew on the back of Exhibit 2?

17 A. Yes, sir.

18 Q. Was there any other method by which you
19 satisfied yourself that a complete decompression had
20 been identified?

21 A. No, not according to **my** notes.

22 Q. Do you recall whether there were any
23 intra-operative complications during the surgery?

24 A. There was a lot of bleeding. I don't know
if that's a complication. It happens.

1 Q. Any reason for that that --

2 A. Very large epidural veins. Epidural veins
3 have the structural integrity of wet tissue paper. Mr.
4 Varcho is a very big man and just, you know, made it
5 more arduous.

6 Q. What was Mr. Varcho's condition directly
7 after surgery?

8 A. He did pretty well. He still -- he had some
9 numbness in his feet and back pain, to a fairly severe
10 degree.

11 Q. I meant directly after surgery was his
12 condition stable and did you feel comfortable with the
13 way he came through the surgery?

14 A. Yes, sir, I felt quite comfortable.

15 Q. Let me back up a second. At one point when
16 you were describing the procedure, you mentioned a
17 portion of the spinous process was removed. I meant to
18 ask you whether that was done at all of the levels.

19 A. Yes, sir. Just enough for technical reasons,
20 if for no other reason.

21 Q. Following this surgery, when was the next
22 time you saw Mr. Varcho, directly after surgery?

23 A. In the recovery room.

24 Q. And his condition continued to be good, in
25 your estimation?

1 A. Yes. It was good, number one, in that he had
2 no direct complications as a result of the surgery. He
3 had back pain which was severe, but on -- and numbness
4 which was about the same, but in general, he was doing
5 fairly well.

6 (Plaintiff's Deposition Exhibit No. 5
7 was marked for identification)

8 Q. (BY MR. **DeSANTIS**) I hand you what's been
9 marked as Exhibit 5. I ask you to take a look at
10 that.

11 A. Yes.

12 Q. Dr. Mast, these are a few of the records I
13 pulled out **of** the Hillcrest Hospital records. What I'd
14 like to do is determine whether any of the notes on these
15 records are yours or if you reviewed any of these notes --

16 A. I did.

17 Q. -- throughout Mr. Varcho's stay, Okay. Is
18 the signature on the right-hand side?

19 A. That's mine.

20 Q. It's like an M?

21 A. Yes, sir.

22 Q. You reviewed each **of** these entries?

23 A. Yes, sir.

24 Q. The first entry is, I believe, 9-4-84, is that
25 correct?

1 A. Yes.

2 Q. And can you read that? First of all is that
3 your handwriting?

4 A. Yes, sir.

5 Q. All right. Will you read that for us,
6 please?

7 A. "Admitted decompressive laminectomy." I can't
8 read the last two words. It's cut off. Previously in
9 my discussion, risks and benefits and protractive
10 recovery. Months to incomplete recovery and release from
11 pain and lower extremities discussed." 9-4 is the
12 operative note itself.

13 MR. HUDAK: In all fairness --

14 MR. DeSANTIS: I was going to make the
15 same -- in all fairness to the doctor.

16 MR. HUDAK: This copy is not a good
17 copy And it appears to not be centered on the page to
18 where the right-hand margin appears to be cut off.

19 MR. DeSANTIS: Let me represent for the
20 record it's a very good copy of the copy I have, but it
21 **is** not a good copy.

22 A. Next note is the operative -- brief operative
23 note I did immediately afterwards, just says operation
24 decompressive laminectomy, L2 to L5, anesthesia general
25 and Pennsylvania tracheal, surgery

1 marks tolerated well EBL three units replace two
2 units.

3 Q And the remainder of the notes on these
4 pages?

5 A. These are physical therapy and the notes
6 made -- I made this one, the sutures were removed.
7 Robrock has note of his blood pressure.

8 Q. Let me interrupt you for a second. Which
9 one did you make, the 9-12?

10 A. I countersigned the 9-12. We just
11 removed his sutures.

12 Q. Okay. Page three of this exhibit? Was
13 there something on page two?

14 A. No, sir.

15 Q. On page three of this exhibit, I believe
16 the entry is Dr. Tucker's, is that correct?

17 A. Yes, sir.

18 Q. There is a signature -- your signature does
19 appear on his page and that date on the left-hand
20 side, it appears to be 8-9-84, is that correct?

21 A. Looks to me like it.

22 Q. Would that -- is that a correct date? Do
23 you have any recollection of that? That would have been
24 prior to the surgery.

25 MR. HUDAK: If you know, Doctor.

1 A. I don't know, sir.

2 Q. Okay. Now, the entry by Dr. Tucker, I
3 believe, says that the "Patient fearful that the same" --
4 is that symptoms -- "present today as they were prior to
5 surgery. Actually there has been continuing
6 improvement." Is that accurate?

7 A. That looks like what he writes to me too.

8 Q. Is that your recollection of Mr. Varcho's
9 symptoms at that time?

10 A. Yes, sir.

11 Q. How many times would you have seen Mr.
12 Varcho in the hospital?

13 A. I saw him, I think, every day.

14 Q. What was Mr. Varcho's condition at
15 discharge?

16 A. He was ambulating well, complained of
17 paresthesia in his feet and I thought had increasing
18 pain in his leg.

19 Q. He did complain **of** pain in his legs?

20 A. Paresthesia. Really, to my recollection, I
21 don't think the he ever totally regressed.

22 Q. But just for clarification, he **did** complain
24 of pain in his legs and paresthesia both?

24 A. Yes.

25 Q. When did you next see Mr. Varcho after he

1 left the hospital?

2 A. A week later on the 22nd of September.

3 Q. Do you have any notes of that?

4 A. Just my notes said progressive improvement,
5 numbness in toes the same, moderately severe low back
6 pain.

7 Q. Can I take a look at that?

8 A. Yeah.

9 Q. Where were you referring?

10 A. (Indicating).

11 Q. Did you take any action at that time or
12 make any recommendations?

13 A. No. I thought that he was improving slowly
14 and asked to see him in six weeks.

15 Q. When was the next time you saw Mr. Varcho?

16 A. November 5, 1984.

17 Q. And what was his -- do you have notes of
18 that?

19 A. Yes, sir.

20 Q. What was his condition at that time?

21 A. Complained of some back pain, was
22 occasionally awakened with warmth in the back so that he
23 sat up in bed. He complained of numbness in the left
24 foot and calf and paresthesia in the calf, numbness and
25 tingling in the calf. Lying on the right side, reduced

1 his symptoms. I was always concerned that he had had --
2 this may be partly vascular, but here I have a note that
3 he said he has had three peripheral vascular checks, and
4 has been evaluated from peripheral vascular disease
5 standpoint.

6 Q. Did he indicate to you what the result of
7 those tests were?

8 A. Well, I did obtain one of the results from
9 the vascular laboratory that was done by Dr. Howard
10 Pitluk.

11 Q. What was the date of that?

12 A. This was September of '83.

13 Q. What was the result of that test?

14 A. "Interpretation. The above findings would
15 indicate a right superficial femoral occlusion with
16 the possibility of right iliac artery stenosis, the
17 left side, although not entirely normal, is intact.
18 Patient should benefit from an exercise program. At
19 this point, I would recommend nothing further unless
20 symptoms become incapacitated."

21 Q. Did you obtain any information about any of
22 the other tests that Mr. Varcho had at that time?

23 A. No, sir, I did not.

24 Q. Did you take any action or make any
25 recommendations on November 5th --

1 A. No, sir.

2 Q. -- 1984? Did there come a time after the
3 surgery when Mr. Varcho's condition deteriorated at all?

4 A. Well, in April, on April 29th, when I saw him
5 in the office, he was complaining of leg pain, left
6 greater than right.

7 Q. Let me interrupt for a minute. Was that the
8 next time you saw him, Doctor?

9 A. No, sir.

10 Q. What would have been the next time?

11 A. Next time I saw him was January 14, 1985.

12 MR. DeSANTIS: Off the record.

13 (Discussion had off the record.)

14 Q. (BY MR. DeSANTIS) Dr. Mast, with your
15 permission, I'd like to mark as an exhibit the last note
16 that we referred to with respect to the visits by Mr.
17 Varcho on September 22nd and November 5th.

18 (Plaintiff's Deposition Exhibit No. 6
19 was marked for identification)

20 Q. (BY MR. DeSANTIS) I'll hand you what has
21 been marked as Exhibit No. 6, and ask you is that the
22 page that you were referring to to reflect on your
23 notes of Mr. Varcho's visits post surgery?

24 A. Yes, sir.

25 Q. In September of '84 and November of '84?

1 A. Yes, sir.

2 Q. And on the back of Exhibit 6, does that reflect
3 your notes of a visit by Mr. Varcho in January of '85?

4 A. Yes, **sir**.

5 MR. DeSANTIS: Okay. Let me mark
6 another exhibit before we go on with that exhibit.

7 (Plaintiff's Deposition Exhibit 7
8 was marked for identification)

9 Q. (BY MR. DeSANTIS) I'm going to hand you what's
10 been marked as Exhibit 7. I ask you to take a look at
11 that. Let me know when you've had an opportunity to read
12 it.

13 Have you had an opportunity to look at it?

14 A. Yes, sir.

15 Q. This is a letter from Dr. Tucker to Dr.
16 Robrock, both of whom are treating physicians for Mr.
17 Varcho, is that correct?

18 A. Yes, sir.

19 Q. You were copied on this letter, so it
20 reflects?

21 A. Yes, sir.

22 Q. **Do** you have any recollection of receiving
23 this?

24 A. I don't have that in my charts.

25 Q. Okay. Do you have any recollection of any

1 conversations with **Dr.** Tucker about Mr. Varcho's
2 condition in or around November of 1984?

3 A. Oh, yes.

4 Q. What would your recollection be?

5 A. This. And I --

6 Q. This indicating Exhibit No. 7?

7 A. Exhibit 7.

8 Q. Okay.

9 A. Yes, that he had -- he was having calf
10 pain, but that Dr. Tucker gave him Elavil with good
11 results. The pain is now in the lower part of --
12 closer to the knee in the thigh rather than the entire
13 thigh. He was having, at that time, severe pain in the
14 low back.

15 Q. Are you referring now --

16 A. I'm referring to the notes -- I'm reading
17 from my notes now.

18 Q. You're referring to Exhibit 6, the back page
19 of your notes from the January visit of Mr. Varcho?

20 A. Yes, sir. He had severe pain in the low
21 back at the base of the spine. Seemed to pass after
22 he got up in four to six minutes. He was having less
23 pain while mobilizing. About this time, I know that Dr.
24 Tucker had spoken to me about the use of Elavil with good
2% results. He was concerned that he had -- that Mr. Varcho

1 had another diagnosis, that something else was going on.
2 It was really quite difficult and he thought that **or** may
3 have been, as he indicates in this letter, that there was
some other disease process going on.

5 Q. Okay. Did he indicate to you what the other
6 disease process might be?

7 A. I knew that he was considering peripheral
8 neuropathy due to diabetes, I don't know what it is
9 and I don't know if he told me what truly clinically
10 mononeuritis multiplex really means, But I **do** know
11 that he was considering vascular etiology or another
12 neurologic disease entity in addition to his
13 preoperative diagnosis.

14 Q. Okay. Another question, what is Elavil?

15 A. Elavil, I think, I do not -- I personally
16 **do** not use Elavil because I don't know enough about
17 the drug to use it, and as an orthopedist, I don't
18 feel comfortable using it and to initiate somebody on it.
19 Elavil is a drug which is generally used to reduce pain.
20 It's taken at night. It enhances the mood and seems to
21 reduce pain. How it works, the pharmacology of it, I
22 can't tell you.

23 Q. Did Mr. Varcho at this time either in his
24 November or his January visits **to** you complain that
25 his symptoms presently at that time were the same as

1 they were prior to the surgery in September of '84?

2 A. He had similar symptoms, but I didn't get --
3 I never got the impression at this time that they were
4 of the same severity.

5 Q. Okay. Did you give any thought to those
6 symptoms being related to his lumbar area?

7 A. I thought they could be. But at that point
8 in time, I didn't think he had -- I didn't think he
9 was deteriorating. I thought that overall, over four
10 months he was doing satisfactory,

11 Q. Okay. Does that mean he was doing better **or**
12 he wasn't getting worse?

13 A. He wasn't getting worse, and in some regards
14 he was better. He would get up and begin to move
15 around, the pain would regress, for example, even I
16 have a note **of** it lying on his right side tended to
17' reduce his symptoms.

18 Q. Was there any other physical evidence of his
19 getting better that you recall?

20 A. No, no, sir.

21 Q. **Is** there anything else reflected in your
22 notes of January 14, 1985 with respect to Mr. Varcho's
23 visit?

24 A. My last sentence is, "**All** in all, excellent
25 thus far, less pain, mobilizing satisfactorily."

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Q What would -- what led you to conclude that overall it was excellent?

A Well I mean based on what he was hospitalized and about four months ago, he was exhibiting going fairly well. He still had leg pain. It was not -- he was not incapacitated. It had been reduced pretty much with the use of Elavil. Whether there was another wise process or not I didn't know. But I thought all in all it was satisfactory based upon what he had at the time the reason that we went in there.

Q Okay. And when was the next time you saw Mr. Varcho after January 14th?

A March 7th.

MR. DESANTIS: Off the record
(Discussion had off the record)

A. March 7, 1985.

Q. And are you referring to a specific note in your file?

A. Yes.

MR. DESANTIS: Why don't we mark that
(Plaintiff's Deposition Exhibit No. 8
was marked for identification)

Q (BY MR. DESANTIS) And now you want what is marked as Exhibit 8, asking you if you can identify that, please?

1 A. At this point, Mr. Varcho had increasing
2 pain in his legs.

3 Q. Let me interrupt for a minute, Coctor. For
4 the record, could you identify what Exhibit 8 **is** and
5 we'll get into the substance of the visit?

6 A. This is Plaintiff's Deposition Exhibit 8.
7 It reflects ny office visit with Mr. Varcho on March 7,
8 1985.

9 Q. **Is** there anything on the back of that exhibit?

10 A. Yes, sir.

11 Q. What is that?

12 A. On the back of this is my office visit with
13 Mr. Varcho, April 29, 1985.

14 Q. Okay. Thank you. And back to the office
15 visit on March 7, 1985.

16 A. At this point, **Mr.** Varcho was having
17 increasing pain in his legs. He had increasing
18 numbness in his toes and was generally at this point, **I**
19 thought, deteriorating. I talked to Dr. Tucker. **I**
20 thought that he had a neuropathy. We placed him on a
21 short course **of** Dilantin and Thorazine.

22 Q. Okay. Let me ask a couple questions.
23 First, what facts led you to conclude that he was
24 jenerally deteriorating?

25 A. He said he was having increasingly severe

1 pain in his legs.

2 Q. Is that indicated on your notes?

3 A. Yes. "Has excellent strength but severe pain.
4 Numbness all toes again."

5 Q. You mentioned that you talked to Tucker.
6 What was the substance of your --

7 A. I called him because I was concerned that
8 Mr. Varcho was having more pain. You know, I was
9 looking for advice because we were concerned about
10 other diseases, neurologic and other diseases. If he
11 had any suggestions. And at that point we decided to
12 go ahead and put him on Dilantin and Thorazine for a
13 two-week period.

14 Q. What was the purpose of those drugs?

15 A. To reduce the pain.

16 Q. You mentioned **the** word neuropathy. What
17 does that mean?

18 A. It's just a word that implies that he's
19 having what I interpret as radicular pain, neurologic
20 pain as opposed to, you know, bone pain or muscle pain.

21 Q. Okay. And when was the next time you saw
22 Mr. Varcho?

23 A. We saw him the following month, April 29,
24 1985.

25 Q. Did you have any -- let me back up a

1 second. Did you have any contact with Mr. Varcho
2 telephonically in between any of these visits, do you
3 recall?

4 A. No, no, sir.

5 Q. Thank you. And what occurred on April 29,
6 1985?

7 A. April 29, 1985, I saw him in the office.
8 He's complaining of leg pain, left greater than right.
9 He was -- do you want me to read?

10 Q. Please, please,

11 a. He began doing more walking, developed
12 numbness in his toes, sole of his foot and his legs
13 with the sensation of cramping. Dr. Tucker felt that
14 it was not neurological and he sent Mr. Varcho to Rose
15 Wang, who is an acupuncturist for arthritis in the
16 lower extremities, and he reported that the severe pain
17 has regressed. And at that point in time he was engaged
18 in acupuncture for the left greater than right leg pain.

19 My concern at this point, and I discussed this
20 with Mr. Varcho, was that the leg pain I felt was either
21 from a neurologic basis or a circulatory basis,
22 and I felt that he would need hospitalization. And I
23 recommended that and I recommended that he obtain a
24 CAT scan --

25 Q. Okay.

1 A. -- as a start-up in the work-up.

2 Q. You mentioned that Dr. Tucker thought that
3 Mr. Varcho's problems were not neurological. Did you
4 have any discussions with Dr. Tucker about that
5 subject at this time other than those you've already
6 described?

7 A. At this visit?

8 Q. That or -- there or around there.

9 A. No, not that I can recall. Not -- I thought
10 that this was likely neurological.

11 Q. I understand. I wondered if you knew --

12 A. Why he thought that?

13 Q. Yes.

14 A. No, sir, I do not know that.

15 Q. You also mentioned that he reported that the
16 pain regressed. I presumed that you meant Mr. Varcho
17 by that?

18 A. Yes, sir.

19 Q. Okay. You recommended **Mr.** Varcho for a CAT
20 scan, is that correct?

21 A. CAT scan and hospitalization.

22 MR. DeSANTIS: Okay. Let's mark this as
23 an exhibit.

24 (Plaintiff's Deposition Exhibit 9
25 was marked for identification)

1 Q. (BY MR. DeSANTIS) I'm going to hand you what's
2 been marked as Exhibit 9. You have the original of
3 Exhibit 9?

4 A. Yes, sir.

5 Q. Okay. Can you describe what Exhibit 9 is,
6 please?

7 A. Exhibit 9 is a CAT scan done on Mr. Varcho
8 at Sachs, Ross & Associates on May 5, 1985.

9 Q. And this **was** the CAT scan that you had
10 recommended?

11 A. Yes, sir.

12 e. I take it since you have the original of
13 this report in your file, you had an opportunity to
14 review the results of the CAT scan?

15 A. Yes, sir.

16 Q. What was the results of the CAT scan?

17 A. It's a long report.

18 Q. Just briefly summarizing, what conclusions
19 did you draw as a result **of** reviewing that report?

20 A. That he had had posterior laminectomies,
21 extensive hypertrophic osteoarthritic degenerative
22 changes, narrowing of the transverse diameter of the
23 spinal canal, narrowing of a portion of the central
24 canal, a one centimeter by five millimeter ossicle within
25 the left portion of the central canal, and moderate to

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3 A. Yes, sir.

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6 range at L5 level?

7 A. I'm not sure what you're referring to.

8 Q. Last lines of the marked-in portion.

9 A. Yes. The facets, the recesses, foramens
10 are 4 to 5, which according to their gradings is moderate
11 to severe. It says very heavy patient, see details,
12 suboptimal.

13 Q. What does that mean to you?

14 A. The grading system?

15 Q. Yes.

16 A. Means that he has severe degenerative
17 arthritis in his spine.

18 Q. Okay. Did you have an opinion at this time
19 as to the possible cause of that condition?

20 A. As to the cause? I don't understand.

21 Q. Would that degenerative arthritis have
22 caused compression?

23 A. Could have.

24 Q. And does this report indicate whether it did
25 or did not?

1 A. No, it only indicates what they describe.

2 Q. Okay. Did you discuss the results of this
3 test with Mr. Varcho?

4 A. I believe I did.

5 Q. Do you have any notes that indicate --

6 A. No.

7 Q. -- when you did?

8 A. I discussed them with Dr. Robrock and Dr.
9 Tucker,

10 Q. Do you have any notes of --

11 A. No, I don't.

12 Q. Okay. Did you make any recommendations
13 based on the result of this test?

14 A. Only the recommendation that I made when I
15 saw him in the office on April 29th of '85, which was
16 that I thought he should be hospitalized.

17 Q. What did you recommend occur while he was
18 hospitalized?

19 A. Well, I thought we should have a myelogram
20 and I think I thought he should have a vascular
21 evaluation.

22 Q. Do you know whether in fact Mr. Varcho had
23 a myelogram subsequently?

24 A. I believe he did have a myelogram
25 subsequently.

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(Plaintiff's Deposition Exhibit No. 10
was marked for identification)

Q. (BY MR. DESANTIS) Handing you what's been
marked as Exhibit 10, take a look at those, let me
know when you've had an opportunity to review it

A Yes, sir.

Q Okay. Exhibit 10 includes several
documents which reflect several tests that were
conducted on Mr Varcho in August of 85, is that
correct?

A Yes, sir.

Q In fact, they include a myelogram an
aortogram and an MRI Is that accurate?
A And a discharge summary yes sir
Q Did you have an opportunity to review any of
these, the results of any of these tests at that time
to your recollection?

A. My recollection, I discussed them with Dr
Tucker.

Q. Do you recall your conversations with Dr
Tucker at this time?

A. I felt that -- my feeling was at that time
that Mr. Varcho had extensive wisdom in the lower
beginning now a little lower than the original
level. The MRI suggested that it was due to adhesions

1 or arachnoiditis. I thought that he should have
2 neurosurgical evaluation.

3 Q. Okay. Now, when you say that your feeling
4 was Mr. Varcho had extensive disease in the lumbar
5 spine, are you referring to spinal stenosis?

6 A. Well, based on the MRI.

7 Q. What page are you looking at?

8 A. I don't know. It's a free page, sir.

9 Q. The number in the lower right-hand corner?

10 A. 00003.

11 Q. Okay,

12 A. It's from Hillcrest Hospital, a report, MRI
13 of the lumbar spine. It says, "The patient has an
14 identified block at L4-5, a myelography. The MRI study
15 demonstrates a two-level abnormality of the lumbar spine.
16 The L4-5 and the L5-S1 regions are severely compromised
17 from what appears to be proliferative arachnoid tissue
18 extending posterior to anterior. This proliferative
19 tissue in effect is causing a severe spinal stenosis. I
20 see no evidence of a recurrent disk protrusion, although
21 the disk at L4 and L5 are degenerative."

22 Q. Okay, Now, you mention that the MRI indicated
23 adhesions were the cause of the spinal stenosis, is that
24 a fair representation of what your term was?

25 A. Yes. Based on the fact that Dr. Zelch who did

1 the MRI said it appears to **be** proliferative arachnoid
2 tissue extending posterior to anterior, the proliferative
3 tissue in effect causing a severe spinal stenosis.

4 Q. What is proliferative arachnoid tissue?

5 A. I would think of it, what I deduce it to be is
6 a proliferation, an increase in the amount of arachnoid
7 tissue that surrounds the dura at that level, just an
8 increase in the mass of the dura. If the dural membranes
9 are very thin and delicate, they are maybe a tenth **of** a
10 millimeter thick, they're very delicate. Almost like
11 delicate paper. When they are proliferated, thickened,
12 they get very thick, as thick -- you have to measure it,
13 but as thick as he describes as causing stenosis or
14 blocking of the lumbar canal at that level. He, meaning
15 Dr. Zelch who read the report.

26 Q. Okay. And this is a product of my ignorance,
17 so forgive me. Are you saying that proliferative
18 arachnoid tissue is scar tissue?

E9 A. You can think of it as scar tissue, I
20 believe, yes, sir.

21 Q. Does it only occur in a situation that would
22 also produce scar tissue or --

23 A. It occurs in a situation which would produce
24 scar tissue, I don't know that that's the only cause
25 of it though.

1 Q. Can you think of any other --

2 A. Offhand, I can't think of any. But I really
3 haven't thought of it.

4 Q. That tissue does not exist in and of itself
5 in your lumbar area without some prior surgery then, is
6 it safe to say?

7 A. I wouldn't say surgery. I would say injury,
8 neoplasm, inflammation of any sort.

9 Q. Is it related at all to arthritis?

10 A. I do not believe so, but I'm not sure. I do
11 not believe so,

12 Q. Okay. So that as a result of these tests,
13 you were able to conclude there was compression in Mr.
14 Varcho's spine at this time, is that correct?

15 A. Yes, sir.

16 Q. Okay. Is it your opinion that this
17 condition did not exist at the time you completed your
18 surgery in September of '84?

19 A. I do not believe it existed at that time,
20 sir.

21 Q. And do you have an opinion as to the cause
22 of the compression at L3 and L5 -- at the L3 through
23 5 levels at the time of these tests other than what we've
24 discussed?

25 A. No. Based on this MRI evaluation, I believe

1 it to be as stated in the MRI report, proliferative
2 of arachnoid tissue.

3 Q. Okay. Let me ask you this, Dr. Mast. What
4 is scar tissue?

5 A. When any soft tissue in the body heals itself,
6 it does not heal itself with the original tissue
7 together. Any soft tissue heals by scar. Scar tissue
8 is, and I'm only speaking as a clinical orthopedist, not
9 as a biochemist, scar tissue is simply collagen fibers
10 that the body proliferates to connect soft tissue.

11 In the body, only one form of tissue that I'm
12 aware of heals without scar tissue, that heals with its
13 original tissue, and that's bone. Bone heals bone to
14 bone. If it heals by scar tissue, it's called a nonunion
15 and doesn't heal. But bone, to my knowledge, is the only
16 tissue that heals with its own tissue, Every other soft
17 tissue in the body, whether it's skin, mucosa, anything,
18 does not heal with the original tissue. Whenever you cut
19 yourself enough, scar tissue forms and joins the soft
20 tissue together. So that this is my feeling of what scar
21 tissue is.

22 Q. Okay. Is there any way to avoid -- strike
23 that. Is there any way to reduce the amount of scar
24 tissue that may occur when you do a particular -- well,
25 let's isolate it to this particular procedure. Let me

1 make it an even more focused question. Is there any way
2 to minimize the amount of scar tissue that occurs as a
3 result of the type of procedure that you performed on Mr.
4 Varcho in September of '84?

5 A. To my knowledge, the only way to do it are
6 it involves general principles of surgery, delicate
7 handling of the tissue, avoid as much traumas you can.
8 Basically that's it.

9 Q. Would there be any reason why there might
10 be more scar tissue at one of the levels that you did
11 a foraminotomy or laminotomy on Mr. Varcho, as opposed
12 to another level?

13 A. To my knowledge, no, sir.

14 Q. So you would expect there to be about the same
15 amount of scar tissue, all things being considered, I
16 mean, if you did the same amount of work at each level,
17 there would be about the same scar tissue?

18 A. I wouldn't even say that. It's really my
19 experience, really unpredictable. I can't tell where or
20 who or when it's going to develop scar tissue, in this
21 condition. I really can't. If you use -- you know,
22 we're guided by the Principles of Surgery. Some people
24 will form it at one level as opposed to another level in
24 the spine and you don't know why. I can't tell you why.
25 I have no -- I don't know that I ever think it would be

1 the same or that he would what get it at all.

2 Q. How long would you expect it to take for
3 scar tissue to create a problem such as you indicate is
4 illustrated by Exhibit 10?

5 A. That is also variable. In my experience,
6 I've seen it occur within a month of surgery and I've
7 seen it occur in 14 years. I don't know why it
8 occurred in either case. I truly don't. I must point
9 out that its occurrence doesn't necessarily mean it's
10 symptomatic. And this is the problem.

11 Q. Okay. What do you mean by that?

12 A. I mean, because you have arachnoiditis or
13 proliferation of scar -- proliferation of arachnoid
14 tissue does not necessarily mean it's going to be
15 symptomatic. I don't believe that you can say, because
16 of this, therefore this.

17 Q. Okay. But you feel in Mr. Varcho's case it
18 did recreate a compression in his lumbar area?

19 MR. HUDAK: What created it?

20 MR. DeSANTIS: Scar tissue,

21 A. Proliferation of arachnoid tissue, to use
22 Dr. Zelch's term, this was my feeling, I felt it
23 strong enough that he should see a neurosurgeon.

24 Q. Let me ask you this question. Today do you
25 have the same feeling about what caused Mr. Varcho's

1 compression of Mr. Varcho's spine in August of 1985,
2 what was causing that compression?

3 MR. HUDAR: I'll have an objection on
4 that.

5 A. I don't understand.

6 MR. HUDAK: Hold on. Based on the
7 hindsight nature of the question --

8 MR. DeSANTIS: Okay. I understand.

9 MR. HUDAK: -- you can answer.

10 A. I don't think I can answer it. I'm not sure
11 I really understand.

12 Q. Do you have any different opinion? You've
13 testified at that time you felt that the proliferation
14 of the arachnoid tissue was causing the compression
15 and creating some problems from Mr. Varcho and you
16 wanted him to go on from there. Today, in hindsight,
17 do you have any different opinion about what caused that
18 compression?

19 MR. HUDAK: Objection.

20 A. I'd have to look at the report of the
21 neurosurgeon who operated on him before I could answer
22 that.

23 Q. And that would be Dr. Collis?

24 A. Yes, sir. So I can't answer it.

25 Q. All right, That's fine. You are aware

1 that Dr. Collis operated on Mr. Varcho then in 1985?

2 a. Yes, sir.

3 (Plaintiff's Deposition Exhibit No. 11
4 was marked for identification)

5 Q. (BY MR. DeSANTIS) Handing you what's been
6 marked as Exhibit 11.

7 A. Yes, sir.

8 Q. This is a letter from Dr. Collis to Dr.
9 Robrock and you were copied on this letter. Do you recall
10 receiving a copy of this letter?

11 A. I do, sir.

12 Q. Before I ask any questions about this
13 letter, did you have an opportunity to review Dr.
14 Collis' deposition transcript from this case?

15 A. I looked at it, yes, sir.

16 Q. In this letter, Dr. Collis indicates that
17 Mr. Varcho needs an extensive and wide decompressive
18 lumbar laminectomy. What does that mean to you with
19 the qualifiers extensive and wide? Does that mean
20 anything different than what you and I have talked
21 about with respect to Exhibit 2?

22 A. What I infer from it, and I didn't ask Dr.
23 Collis, but what I inferred was that he was going to
24 do a laminectomy, a complete laminectomy, and excision
25 of the facet joints. That would include facet joints,

1 lamina and spinous processes.

2 Q. Based on your contacts with Mr. Varcho in
3 August of -- strike that. Did you have any contact
4 with Mr. Varcho in August of '85? Did you see him
5 while he was in the hospital?

6 A. I saw him **while** he was in the hospital, yes,
7 sir.

8 Q. Do you have any notes of that?

9 A. No. I just saw him and reiterated what I
10 had felt in April.

11 Q. Based on any communications you had with Mr.
12 Varcho and your review of the results of the CAT scan
13 and myelogram and MRI, did you agree with Dr.
14 Collis that Mr. Varcho needed an extensive and wide
15 decompressive lumbar laminectomy?

16 A. I did, sir.

17 Q. Okay. Let me ask you this, Dr. Mast. Why
18 would the proliferative arachnoid tissue create a
19 problem that would necessitate the total laminectomy
20 as opposed to a less intrusive procedure?

21 A. The proliferative arachnoid tissue is dense
22 and relatively unyielding and produces compression of
23 the spinal nerves, much the way bone or disk or
24 anything else would produce compression.

25 Q. Could it be removed without excising the

1 posterior elements?

2 A. Could the proliferative arachnoid tissue be
3 removed without excising the posterior elements?

4 Q. Yes.

5 A. Not to my knowledge.

6 Q. Okay. Why?

7 A. That's out of my field and I can only give
8 you how I as an orthopedic surgeon would answer, but you
9 really need a neurosurgeon to tell you why. **My** feeling
10 is that you can't get to it unless you take off -- unless
11 you completely -- you've got this arachnoid tissue is
12 surrounded by bone. You're going to have to take off
13 either the anterior elements or the posterior elements to
14 get to it.

15 Q. Okay. Referring to Exhibit 2, and
16 recognize, Dr. Mast, that you're talking to someone
17 who is medically ignorant. I'm trying to understand
18 this concept.

19 A. I understand.

20 Q. When you drew your diagram here at the
21 bottom of Exhibit 2 and you showed your laminotomy
22 procedure, would the scar tissue occur in that area
23 where you did your laminotomy?

24 A. I don't know.

25 Q. Okay. When you say you don't know, you

1 don't know if it occurred with Mr. Varcho in that area
2 or generally speaking you don't know if it would be
3 limited to that area?

4 A. I don't know if it occurred in Mr. Varcho
5 in this area.

6 Q. Let me ask you this. Where would you expect
7 it to occur?

8 A. I would expect it to occur in the area
9 where he had the laminotomy,

10 Q. Okay.

11 A. However, the MRI indicates it's diffuse and
12 generalized up and down the lower part of the lumbar
13 spinal canal.

14 Q. What does diffuse and generalized mean?

15 A. Extends from L4 to L5, or L4 to the sacrum.
16 Based on what Dr. Zelch reported, it is based on what
17 Dr. Zelch, the L4-5 and L5-S1 regions are severely
18 compromised from what appears to be proliferative
19 arachnoid tissue. This is, in effect, causing severe
20 spinal stenosis. What that implies to me is that it
21 extends from L4 to S1 as a cylinder or as at least an
22 irregular cylinder, a mass of tissue.

24 Q. And that mass would be -- if you could point on
24 Exhibit 2 or somehow indicate on Exhibit 2 where that
25 mass would be located? Would it help if I gave you a

1 red pen?

2 A. Might help a little. If I can just for the
3 purposes of -- translate this to this, at this level --

4 Q. Let me just for the record, when you say
5 translate this, you mean move --

6 A. I mean translate my --

7 Q Make the big picture the small picture we
8 have on the left-hand side about the middle **of** the page
9 of Exhibit 2?

10 A. Yes. This is the body of the vertebrae.
11 These are the pedicles.

12 Q. Okay.

13 A. The lamina. This is the spinous process.
14 This is the spinal canal. Now, inside the spinal
15 canal, is the dura. And it is part **of** the arachnoid.
16 It's delicate, but it's pretty tough. And it has the
17 spinal fluid in it, and it has the nerves. Much like
18 a telephone cable. They are bathed in fluid. They're
19 surrounded by the delicate meninges which form the
20 arachnoid.

21 Now, if you visualize proliferation of
22 arachnoid tissue, I think of the arachnoid tissue as
23 infiltrating this whole area like this. If you already
24 have some compromise from arthritis and that sort of
25 thing, the arachnoid tissue will be Compressing, locking

1 almost from within the nerve roots that are present
2 causing pain. And then you have on top of it compromised
3 or narrowed spinal canal from arthritis which was
4 reported in the CAT scan.

5 Q. Okay. is that complete your answer?

6 A. Do you want to know, I forgot the question.

7 Q. I believe I asked you where the --

8 A. Where It occurred? And so if I had
9 operated here, made the laminotomy here, gone in,
10 worked, the nerve root that is exiting at this level
11 is outside the dura, moving to the outside here, would
12 be entrapped and compressed by the proliferated
13 arachnoid tissue. Then although I would have expected,
14 and you would think if I operated here that the
15 proliferated tissue should be at this level, that in
16 point of fact based upon what Dr. Zelch read the MRI,
17 it was diffusely through the dura extending from L4 to
18 the sacrum.

19 (Plaintiff's Deposition Exhibit No. 12
20 was marked for identification)

21 Q. (BY MR. DeSANTIS) I'm going to hand you
22 what's been marked as Exhibit 12. Dr. Mast, Exhibit
23 12 is Dr. Collis' report of operation from his surgery
24 on October 30, 1985. My question is after having an
25 opportunity to review this, is the procedure that Dr.

1 Collis describes here at the L4-L5 level what you
2 consider or what you explained to be a decompressive
3 laminectomy as opposed to a laminotomy?

4 A. I believe so. The reason I'm pausing is I
5 thought I saw a note that he took out the -- yes, the
6 superior facets. Yes, I believe so. To the best of my
7 knowledge, reading this, yes, sir, it is. I did not talk
8 with Dr. Collis about this. He only called my office
9 after the surgery to report that Mr. Varcho had --

10 Q. And in his report about midway through the
11 bottom paragraph, he mentions that the spinous
12 processes of L4 and L5 were excised?

13 A. Yes.

14 Q. Is that normally a part of the laminectomy
15 procedure?

16 A. Any procedure?

17 Q. A --

18 A. A wide?

19 Q. A wide.

20 A. Oh, yes. As I say, that includes the spinous
21 process, the lamina and the facet joints, the whole --
22 that constitutes part of the posterior elements. I had
23 excised the tips of the spinous process.

24 Q. At all levels?

25 A. At the levels that I worked, yes, sir. He

1 started at the facet joints and based on what he said, he
2 worked in. Then opened the dura. But yes, sir, it would
3 be the facet joints, the superior facet joints, the
4 lamina and the spinous process.

5 Q. Do you recall if you removed the spinous
6 process at L3?

7 A. Yes, I'm sure I took the tip of it.

8 Q. The reason I asked, he makes a point of
9 mentioning the L4-L5. I just wondered if it had already
10 been removed at L3 or if he didn't need to remove it at
11 L3?

12 A. I had removed the tip, Probably just as much
13 as I'd done right down the line.

14 Q. Okay. You may have already answered this.
15 But let me ask it again. What is your opinion as to
16 why -- first of all, you've already testified that you
17 agreed with Dr. Collis that an extensive decompressive
18 laminectomy was necessary at this time. Why was it
19 necessary at this time as opposed to at the time you
20 did the surgery on Mr. Varcho in September of '84?

21 A. You mean why was the laminotomy performed
22 as opposed to a wide excision of everything?

23 Q. Yes.

24 A. My feeling is that removal of the posterior
25 elements, which includes the facet joints, the lamina

1 and the spinous process, at multiple levels, has the
2 potential for seriously destabilizing the spine and
3 causing problems as a result of spinal instability.
4 And to my knowledge, and I work closely with
5 neurosurgeons at Hillcrest Hospital where I do most of my
6 work, radical excision of the posterior elements is
7 deferred unless it has to be done, unless a failure of
8 less radical approach occurs, because as I say, the
9 problem is if you get absolute decompression by removal
10 of the posterior elements, you will get recurrent nerve
11 root compression as a result of spinal instability. And
12 if that occurs, -- and another reason is that people do
13 generally well with removal of the offending bone and
14 decompression of the nerve by a foraminotomy rather than
15 subjecting them initially to a wide radical decompressive
16 laminectomy.

17 MR. DeSANTIS: Off the record.

18 (Discussion was had off the record.)

19 (Plaintiff's Deposition Exhibit 13
20 through 21 were marked for identification.)

21 Q. (BY MR. DeSANTIS) We've selected nine
22 x-rays to look at on the view box. They were selected
23 totally at random and I want to ask you some questions
24 about them. Feel free to refer to any other x-rays.
25 We can pull out different ones if you don't feel that

1 these are representative of the questions that we're
2 talking about or the points you want to make. I just
3 selected these nine at random for representative purpose
4 only, not because they're peculiar in any way that I can
5 recognize.

6 A. I understand. Why don't we put the first
7 one which has been marked as Exhibit 13. Now, Dr.
8 Mast, can you identify, is it indicated at all on that
9 sheet the date of the x-ray?

10 A. Looks like 8-28-84.

11 Q. That would have been prior to your surgery
12 on Mr. Varcho?

13 A. Yes.

14 Q. Could you describe what that x-ray displays?

15 A. This is a lateral x-ray of the lower half of
16 the dorsal spine and the lumbar spine during the
17 process of a myelogram.

18 Q. Okay.

19 A. You can see that the amipaque or radiopaque
20 dye fills the canal in the lower thoracic region and
21 comes down to the indented, at the body of L3 and L4
22 and there's a cut-off at about L3-4 of the amipaque
23 column. One thing that is also apparent is that there is
24 in this x-ray a forward shift of the body of L4. It's a
25 shift to the anterior position which indicates what is

1 referred to as pseudospondylolisthesis, which means that
2 one vertebral body has shifted forward on another, It
3 implies in this case that it is due not to structural
4 defect **but** rather to a degenerative process in the spine,
5 and that's why it's called pseudospondylolisthesis.
6 There are also spurs on the vertebral bodies.

7 Q. What significance did those spurs have?

8 A. They imply degenerative changes.

9 Q. What kind of degenerative changes?

10 A. Arthritic condition, degenerative changes.

11 Reactive bone that's formed on the vertebral bodies is
12 part and parcel of degenerative disk disease that has
13 occurred.

14 Q. Would that cause compression?

15 A. Would what cause compression?

16 Q. The bone spurs that you indicated.

17 A. These spurs here would cause no problem
18 because they're anterior, they're pointing into the
19 abdomen.

20 Q. Okay.

21 A. It's just worth noting, that's all.

22 Q. Okay. **As** a result of looking at that x-ray,
23 can you identify anything that would suggest spinal
24 stenosis visibly?

25 A. Well, **I** always go over these x-rays and the

1 CAM scan with the radiologist To me it is suggestive
2 of spinal stenosis but I would as I say, I would --
3 special studies CAM scan MRI and myelograms I
4 always go over them with the radiologist I don't feel --
5 I feel comfortable talking to them and getting their
6 views from a radiologic point of view. So is it very
7 suggestive of lumbar spinal stenosis

8 Q. What about it is suggestive of lumbar spinal
9 stenosis?

10 A To me.

11 Q I understand.

12 A Is the narrow dye column that is present
13 here? Although this is not a view taken from the facet
14 joints, one gets the impression that this region, that
15 the facet joints are hypertrophied that there
16 thickens

17 Q And is that a spinal stenosis, could it have
18 been created --

19 A. It's consistent with spinal stenosis.

20 Q. That is a spinal stenosis that is created by
21 osteoarthritis condition?

22 A I believe so sir and degenerative disk
23 disease.

24 Q. Okay What do you mean by degenerative disk
25 disease?

1 A. If these are the blocks of bone that are
2 stacked one on top of another, this dark radiolucent
3 space between them is the disk and it is composed **of**
4 in the central region, a gelatinous substance
5 surrounded by fibrocartilagenous rings much like rings
6 **of** a tree. These are the shock absorbers **of** the spine.

7 With degeneration of the disk, which is
8 initiated by its loss of water content, the cushion
9 becomes **less** high, the bones actually come down closer.
10 This is what I mean by degenerative disk disease. As
11 they come down, the facet
12 joints that also telescope on one another, it's just a
13 general shortening of the spine.

14 Q. Okay. Is there anything else of significance
15 that you can observe with respect to Exhibit 13 as it
16 relates to Mr. Varcho's condition?

17 A. I don't believe so, sir.

18 Q. Okay. Thank you. Dr. Mast, we've put Exhibit
19 14 in the --

20 A. This is also an x-ray dated 8-28-84. It is
21 a lateral x-ray of a lumbar spine in the course of a
22 myelogram.

23 Q. Okay. Can you describe what it displays?

24 A. This is the pointing to the right side of
25 the film is the abdominal contents, calcified aorta.

1 This is the back of the spine. These are blocks of
2 bone or vertebral bodies. This is -- these are the
3 posterior elements here. This is the dye column, the
4 amipaque dye column. And it's flowing. It's injected
5 above, it's flowing down, it begins to stop at about the
6 level of L3. The displacement, the
7 forward displacement of the lumbar vertebrae is again
8 seen here as are the osteophytes.

9 Q. Okay. And once again, is there anything
10 displayed by that x-ray that suggests to you spinal
11 stenosis?

12 A. Again, just what I'd indicated on the first
13 x-ray.

14 Q. The narrowing of the canal?

15 A. The apparent narrowing of the canal.
16 Without a radiologist, or I should say without the
17 radiologist who did this study, to tell me whether the
18 patient was supine or erect when it was taken, it's hard
19 to make any real comments about spinal stenosis, and so I
20 have to infer it on presumption, which I wouldn't want to
21 do -- I would never do, you know, I would never do this,
22 do a surgical procedure without reviewing the myelogram
23 with the radiologist because I have to know what the
24 position was, whether the patient was supine, whether
25 it was five minutes or ten minutes into the procedure,

1 the ease of the procedure and this sort of thing.

2 Q. Okay. In this particular case, did you
3 have an opportunity to review the x-rays with the
4 radiologist?

5 A. I did before the surgery.

6 Q. Okay. And do you recall at all the nature
7 of that?

8 A. Only that I needed it as a guide -- I need
9 to talk to them to get their input from a radiologic point
10 of view exactly where I go, what I should do and, you
11 know, for them to tell me, Yes, the block is here, we've
12 got trouble here, there's a spur here. I need them to
13 tell me that, And I give them input. Well, this doesn't
14 look like much. It's an interchange, It's a give and
15 take between two people in different specialties.

16 Q. Do you have any notes of those kinds of
17 conversations?

18 A. No. It's all verbal, all done usually the
19 afternoon that they do the myelogram, I go down, go over
20 it with them because even though they dictate a report,
21 it's just a report. I mean, if they say, Oh, yeah, I
22 remember it was difficult here, you know, something, they
23 can give it to you fresh and it's the freshness, the
24 timeliness that enables you to be able to say, Well, I'll
25 do this or I won't do this. It's just more information.

1 Q. Okay. Good. Thank you. Let's put up 15.

2 A. This is Andrew Varcho. Now we know for sure
3 it's his name, Andrew Varcho, Plaintiff's Exhibit 15,
4 8-20-85. This is, again, an x-ray, lateral x-ray of the
5 lumbar spine in the course of a myelogram. The film is
6 oriented the way the others were oriented. This is the
7 front or anterior.

8 Q. The right side?

9 A. To the right side, right side of the view
10 box. Let me qualify that. It's not really a true
11 lateral, it's a bit of an oblique. The aorta, great
12 vessels are seen here heavily calcified. This is the
13 third lumbar, fourth lumbar, fifth lumbar vertebral
14 bodies which are marked by the radiologist as 3, 4 and
15 5.

16 Again, you see the anterior osteophytes
17 projecting. *You* again see the forward displacement of
18 this vertebral body L4 compared with L5. Coming down
19 here you see the dye column, the amipaque dye column
20 coming down and beginning to thin out and block at about
21 the level of L4 here. Again, qualifications about spinal
22 stenosis and everything, I can look at it and say, it
23 looks like it. I would really like to go over it with
24 the radiologist.

25 Q. Okay. What about it looks like it?

1 A. The relative narrowness of the column. It
2 certainly could be consistent with proliferative
3 arachnoid tissue as Dr. Zelch described in the MRI which
4 was done at this time also.

5 Q. Is there anything that you can identify on the
6 x-ray that is indicative of the proliferative arachnoid
7 tissue?

8 A. No, sir.

9 Q. So it's not visible?

10 A. No. It's consistent with, but you cannot
11 visualize it.

12 Q. **Is** scar tissue visible in x-ray situation?

13 A. Not plane x-ray. Okay. This is an x-ray,
14 Plaintiff's Exhibit 16. Andrew Varcho, August 20, 1985.
15 It is an overexposed view of the lumbar spine. An AP or
16 taken from the front. I have placed the marker just
17 with the left side with the L on our left side so that it
18 is -- we are looking at the patient from the back to
19 the front,. You can see the wings of the pelvis or ilium
20 here. See the sacrum in place. This is the fifth lumbar
21 vertebra. There's the fourth lumbar vertebra. Third
22 and second. You also notice a tilting of the spine. We
23 call it a left curvature. It's tilting. Convex to the
24 left curving up.

25 Sticking out from the vertebral bodies of L4

1 and 5 are again osteophytes seen on either side which are
2 consistent with degenerative disk disease. It's
3 overexposed enough, I can't -- these look like the facet
4 joints. But it's not a good x-ray. Basically that's
5 all. There's a lot of stool in the intestine which tends
6 also to cloud things. But other than that, I can't
7 comment further.

8 Q. Okay. There's no visible indications of
9 spinal stenosis on that particular sheet?

10 A. I don't see any, sir.

11 Q. Okay.

12 A, This is Plaintiff's Exhibit 17. This is
13 Andrew Varcho dated May 7, 1985. This is a CAT scan,
14 These are reproductions of the CAT scan done at Sachs &
15 Ross. This is CAT scan taken in the sagittal plane and
16 it is a one-to-one magnification.

17 MR. HUDAK: Excuse me. Does the same
18 question hold for this film as the other films?

19 MR. DeSANTIS: I'm sorry, does what?

20 MR. HUDAK: What question are you
21 putting to the doctor?

22 MR. DeSANTIS: I'm sorry.

23 Q. (BY MR. DeSANTIS) Why don't you describe what
24 this --

25 MR. HUDAK: You that carry forward for

1 all of the films?

2 MR. DeSANTIS: Please.

3 A. This **is** an x-ray on a one-to-one that is no
4 magnification, no diminution, one-to-one reproduction
5 of an x-ray of the lumbar spine taken in the sagittal
6 plane. By sagittal plane, I mean it's a slice, front
7 to back. it's a slice down the middle. These slices
8 are taken much like you would slice a loaf of bread at
9 about two millimeters **of** thickness, just run right
10 through on the computer.

11 I can't tell you -- this x-ray, all CAT scans
12 of the spine and all MRI's of anything, I need help with
13 from the radiologist because there are bone windows and
14 soft tissue windows. There are spot films that
15 excentuate bone and eliminate soft tissue and vice versa.
16 This looks like a bone window. I cannot tell what level
17 it is. I just can't. I can point out structures that I
18 can identify. These are vertebral bodies. This is the
19 disk space between the vertebral bodies, this black.
20 This gray area in here is the spinal canal.

21 This view on the pictures on the right shows
22 the posterior elements. I believe, but I can't be sure
23 that this and this, These little gray spots here and this
24 and this represent neuroforamina, windows for the nerves.
25 Here again in this lower left-hand side they look like

1 neuroforamen also which look reasonably open.

2 This is another view and I think it's near the
3 edge, outer edge of the spinal canal so that the spine,
4 these are the bodies of the spine, this white projection
5 here and here, I believe, are the pedicles coming up and
6 these are the neuroforamen. You know, honestly, I can't
7 tell you. It doesn't look normal, but I can't tell you
8 to the extent that it's pathologic because I just -- I
9 don't know where we are in this series of sagittal cuts.

10 Q. Let me interrupt you **for** a second. Would
11 the report give you any assistance?

12 A. These -- no.

13 Okay.

14 A. These are keyed. According to what slice
15 it is. I can't tell you --

16 MR. HUDAK: Doctor, if you cannot
17 answer the question any further extent, it's
18 permissible to **so** state.

19 A. I just can't. I can't break the code.

20 Q. I appreciate that. Okay. Why don't we go to
21 the next.

22 A. This is Exhibit **18**, this is the, again, the
23 CAT scan **was** performed May 7, **1955**. These are the
24 axial views. These are the ones that cut parallel to
25 the ground when you're standing. I can tell a little

1 bit more on this view than I can on any of the others.
2 I'm not sure, however, of the level, but I can point out.
3 This is an area where a laminotomy, laminectomy was
4 performed here because it's open.

5 Q. We're referring to the upper right-hand
6 corner?

7 A. Upper right-hand corner. You can see part
8 of the posterior elements remaining, the facet joints,
9 which show bone hypertrophy and narrowing of the facet
10 joint. There is a level wherever I see facet joints in
11 this axial -- in these axial views, I see degenerative
12 arthritis with some bone proliferation around the facet
13 joints.

14 Q. Would that cause compression?

15 A. It could.

16 Q. Okay.

17 A. It could not.

18 Q. And let me ask you this, Doctor. Can you
19 identify visibly scar tissue on this pictures?

20 A. No, sir.

21 Q. **How** about proliferative arachnoid tissue?

22 A. No, sir.

23 Q. Okay. There is anything else significant on
24 that picture with respect to Mr. Varcho's condition on
25 that date?

1 MR. HUDAK: To the best of your
2 knowledge.

3 A. To the best of my knowledge, no, sir.

4 Q. Okay.

5 A. This is Plaintiff's Exhibit 19. May 7,
6 1985. Radiologic imaging. This is an oblique x-ray
7 of the lumbar spine. These x-rays, oblique x-rays are
8 taken to get a better look at the facet joints than plane
9 x-rays. This is labeled right and the x-ray is on my
10 right hand. These are the wing of the pelvis here.
11 These gray lines, vertical gray lines you see are the
12 facet joints. You can follow them all the way down, but
13 as you do, you see that the gray line is narrower and the
14 bone mass, that is to say the whiteness around them,
15 seems to be increased. And I would say that this
16 represents degenerative arthritis of the facet joints in
17 the low lumbar spine.

18 Q. Okay. Once again, which may cause
19 compression?

20 A. From this -- based on this x-ray, you can't
21 say that. All you can say at the most is that this is
22 degenerative arthritis.

23 Q. Okay. How about scar tissue again, is there
24 any visible signs of scar tissue?

25 A. You can't see that on a plane x-ray.

1 Q. And the same with proliferative arachnoid
2 tissues?

3 A. Yes, sir.

4 Q. Okay.

5 A. This is Exhibit No. 20. This is taken May 7,
6 1985. This is an oblique view of the lumbar spine.
7 It -- I've oriented it so that the x-ray labeling marked
8 right is to my right side. This again is an x-ray taken
9 to demonstrate the facet joints. Again, the facet joint
10 is the little gray line here. If you follow the facet
11 joint down, as you get into the low lumbar region, you
12 begin to lose it. You see it a little bit, but it's very
13 difficult. And there can be two reasons for this. One,
14 is that the plane of the facet joint is not symmetrical,
15 that it's turned a little bit, which is not uncommon, so
16 you wouldn't see it at all.

17 The second reason is that there is -- and I
18 think there is significant degenerative arthritis
19 occurring in the facet joints themselves.

20 Again, the only conclusion I can make based on
21 looking at this x-ray is that I believe there is evidence
22 of degenerative arthritis of the facet joints,
23 degenerative disk disease, which we usually call
24 spondylosis, degenerative arthritis of the lumbar spine.

25 Q. Would those conditions have existed in

1 September of '84?

2 A. I would venture to say that an x-ray taken
3 five years ago would have been quite similar to this,
4 so the answer is yes, sir.

5 Q. Okay. And once again, is there any scar
6 tissue visible in this or proliferative arachnoid
7 tissue?

8 A. No, sir.

9 Q. Okay.

10 A. This is Exhibit 21. Andrew Varcho. CAT
11 scan of May 7, 1985. This represents the axial
12 cuts when you're standing cuts parallel to the ground
13 through the spine. Based on the densities, this looks
14 Like, I'm no expert, this looks like the soft tissue
15 window. You can see nicely muscle masses here and these
16 Look like muscle groups around the spine.

17 I can point out that this dense white kind of
18 like an inverted horseshoe area represents the vertebral
19 body. This is the spinal canal. You see the opening
20 here where the laminotomy was performed. Here again,
21 ,ere's the vertebral body. Here's the spinal canal. The
22 acet joints in the bone, density I don't see well
23 because it's white and that's why I think this may be the
24 soft -- what radiologists refer to as the soft tissue
25 window.

1 These are cuts, and I cannot tell the level.
2 I can't tell you -- I can't break the code. But these
3 are cuts progressing through a vertebra and you can see
4 the open laminectomy here, the posterior elements intact,
5 there's an area where again the bone was removed here, and
6 here are the posterior elements. This looks in the
7 regions that I can see the facet joint like degenerative
8 arthritis and bony proliferation around the facet joints.

9 MR. DeSANTIS: Okay. Can we go **off** the
10 record.

11 (Discussion was had off the record.)

12 MR. DeSANTIS: Doctor, I don't have any
13 other questions at this time. I appreciate your
14 patience. I presume you're not going to waive
15 signature?

16 MR. HUDAK: Correct, we will not waive
17 signature.

18 (Concluded at 5:20 p.m.)

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1 I have read the foregoing transcript from
2 page 1 to page 83 and note the following corrections:

4	PAGE :	LINE:	CORRECTION:	REASON:
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18 Subscribed and sworn to before me this
day of , 1988.

WILLIAM MAST, M.D.

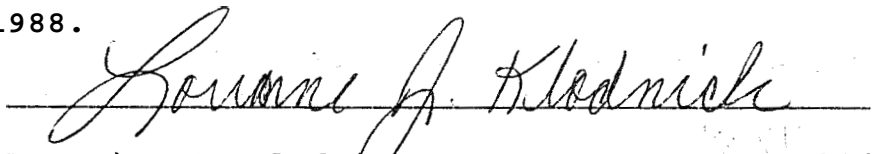
Notary Public

ly Commission Expires:

1 THE STATE OF OHIO,)
2) SS: CERTIFICATE
COUNTY OF CUYAHOGA.)

3 I, Lorraine J. Klodnick, a Notary Public
4 within and for the State of Ohio, duly commissioned
5 and qualified, do hereby certify that WILLIAM **MAST**,
6 **M.D.** was by me, before the giving of his deposition,
7 first duly sworn to testify the truth, the whole truth
8 and nothing but the truth; that the deposition as
9 above set forth was reduced to writing by me by means
10 of Stenotypy and was subsequently transcribed into
11 typewriting by means of computer-aided transcription
12 under my direction; that said deposition was taken at
13 the time and place aforesaid pursuant to notice and
14 agreement of counsel; and that I am not a relative or
15 attorney of either party or otherwise interested in the
16 event of this action.

17 IN WITNESS WHEREOF, I hereunto set my hand
18 and seal of office at Cleveland, Ohio, this 29th day
19 of February, 1988.

20 
Lorraine J. Klodnick, RPR. CM. Notary Public
21 Within and for the State of Ohio
22 540 Terminal Tower
Cleveland, Ohio 44113

23 My Commission Expires: June 23, 1992
24
25