

ENG'S

1 State of Ohio,)
2 County of Cuyahoga.) ss:

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4 IN THE COURT OF COMMON PLEAS

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6 Jorgen Nielsen-Mayer, et al.,)

7 Plaintiffs,)

8 vs.)

9 The Center for Plastic Surgery,)

10 Inc., et al.,)

11 Defendants.)

12 - - -

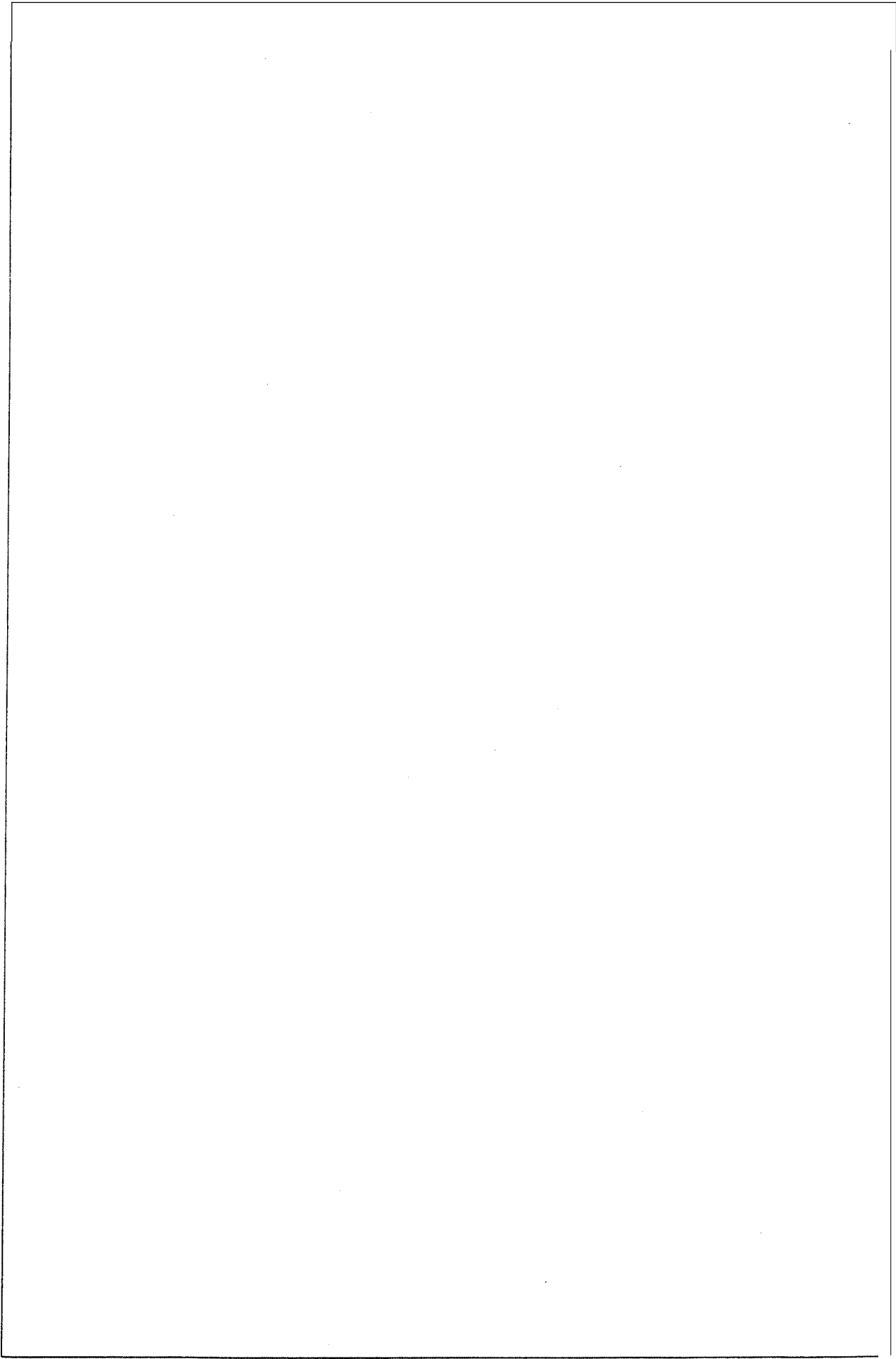
13 DEPOSITION OF MELVIN SHAFRON, M.D.

14 FRIDAY, MAY 10, 1991

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16 The deposition of Melvin Shafron, M.D., a witness
17 herein, called by the Defendants for examination
18 under the Ohio Rules of Civil Procedure, taken
19 before me, Ivy J. Gantverg, Registered Professional
20 Reporter and Notary Public in and for the State of
21 Ohio, by agreement of counsel and without further
22 notice or other legal formalities, at 26900 Cedar
23 Road, Beachwood, Ohio, commencing at 6:00 p.m., on
24 the day and date above set forth.

25



1 **APPZARANCES:**

2 **On behalf of the Plaintiffs:**

3 Fred Wendel, III, Esq.
4 Stewart & DeChant
5 The Atrium Office Plaza - Suite 850
6 668 Euclid Avenue
7 Cleveland, Ohio 44114

8 **On behalf of the Defendants:**

9 Susan M. Reinker, Esq.
10 William D. O'Malley, Esq.
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12 1001 Lakeside Avenue - Suite 1600
13 Cleveland, Ohio 44114

14 **Also Present:**

15 Douglas Clark, Videographer

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1 (Thereupon, Defendants' Exhibits 1 and
2 2 (Shafron) were marked for identification.)

3 MELVIN SHAFRON, M.D.

4 a witness herein, called by the defendants for
5 examination under the Rules, having been first duly
6 sworn, as hereinafter certified, was deposed and
7 said as follows:

8 DIRECT EXAMINATION

9 BY MS. REINKER:

10 Q. Doctor, would you please identify yourself?

11 A. My name is Melvin Shafron. I am a
12 neurosurgeon here in Cleveland.

13 Q. And would you introduce yourself to the jury,
14 and tell them a little bit about yourself?

15 A. I am a native of Cleveland, and practice in
16 Cleveland, with my office being in Beachwood, Ohio,
i7 where we are at today.

18 I went to college at what was then called
19 Adelbert College of Western Reserve University, I
20 received my undergraduate degree in 1952. From 1952
21 to 1956 I went to Harvard Medical School and
22 received my degree from there, after which I served
23 one year as an intern at the University of Michigan
24 Hospitals in Ann Arbor, Michigan.

25 My training was interrupted for two years,

1 during which time I was in the Navy, serving as a
2 medical officer aboard one of the line ships.

3 Q. What two years?

4 A. From 1957 to 1959.

5 After completing my military service, I
6 returned to Cleveland. I had one year of training
7 in general surgery, which was a prerequisite for
8 training in neurosurgery, and then from 1960 to
9 1964, I trained in the specialty of neurological
10 surgery at the University Hospitals of Cleveland,
11 and I have been in practice since that time here in
12 Cleveland.

13 Q. Do you hold any teaching positions?

14 A. Yes, I do.

15 Q. What are those?

16 A. I am an associate clinical professor of
17 neurosurgery at Case Western Reserve Medical School.

18 Q. How about belonging to any societies or
19 learned organizations, do you belong --

20 A. Yes.

21 Q. -- to any such groups?

22 A. Yes.

23 Q. And what groups would those be?

24 A. I am a member of the American College of
25 Surgeons, the American Association of Neurological

1 Surgeons, the Neurosurgical Society of America, the
2 Ohio State Neurosurgical Association, a small group
3 in northeast Ohio called the Northeast Ohio
4 Neurosurgical Society.

5 I am also a member of the American Medical
6 Association, the Ohio State Medical Association and
7 the Cuyahoga County Medical Society or the Academy
8 of Medicine of Cleveland.

9 Q. Have you ever held any offices in any of the
10 organizations to which you belong?

11 A. Yes, I have.

12 Q. And what would that be?

13 A. I was vice-president of the Academy of
14 Medicine of Cleveland, I was on the Board of
15 Directors for six years, I served on the executive
16 committee for two years, I was president of the
17 Neurosurgical Society of America in 1989.

18 Q. What kind of a group is that?

19 A. That is a small specialty society whose
20 membership is by invitation only.

21 Of course, I am a specialist certified by the
22 American Board of Neurosurgery, and I have been a
23 guest examiner of the American Board of
24 Neurosurgery.

25 Q. What does that mean, a guest examiner?

1 A. That means that -- this is a process by which
2 physicians attempt to become certified as
3 specialists in neurosurgery, and I served as an
4 examiner in testing young neurosurgeons to see if
5 they are qualified to be certified as specialists.

6 Q. So you are one of the people who evaluates
7 young physicians who want to become Board certified
8 neurosurgeons?

9 A. That is correct.

10 Q. Have you published any articles?

11 A. Yes.

12 Q. Doctor, you have been talking about
13 neurosurgeons and neurosurgery. What is it that
14 neurosurgeons do?

15 A. Neurosurgery is that specialty or branch of
16 medicine that deals with the diagnosis and the
17 treatment, whether it be surgical or non-surgical,
18 of a variety of conditions that can affect the
19 brain, the skull, the coverings of the brain, the
20 bony spine, the spinal cord, which is one of the --
21 which is the main nerve trunk of the body, and the
22 various nerves which come from the spinal cord.

23 Q. So does all of your practice deal with
24 nerves?

25 A. Yes.

1 Q. And how many years have you been doing that?

2 A. I have been in practice for twenty-seven

3 years.

4 Q. How much of your time do you spend in

5 actually taking care of patients clinically, or

6 teaching, or writing, or research?

7 A. A hundred percent of my time.

8 Q. Are you licensed to practice medicine, by the

9 way?

10 A. Yes.

11 Q. Now, Doctor, in your practice as a

12 neurosurgeon, have you become familiar with the long

13 thoracic nerve?

14 A. Yes.

15 Q. Now, we have a poster here which might help

16 you, but I would like you to tell us a little bit

17 about the anatomy of the long thoracic nerve.

18 Can we get that all right on the camera?

19 A. Yes.

20 Go ahead.

21 Q. All set? I guess we are all set, okay.

22 A. ,What we are looking at is sort of half of a

23 body, the left half, that left half is facing us.

24 And what we are seeing here, just a few things to

25 orient yourself, this is the collarbone right here,

1 this is the arm, this is the spine here, and these
2 are the ribs (indicating).

3 And right down here, this is a pictorial
4 description of the muscle that we call the serratus
5 anterior, which has its beginning on the ribs,
6 running from way up in the armpit all the way down
7 here (indicating).

8 Q. And where is the serratus anterior?

9 A. This represents the serratus anterior
10 (indicating).

11 Q. Okay.

12 A. And this nerve that we call the long thoracic
13 nerve has its origin from nerves in the neck, and
14 twigs or branches of motor nerves only, from the
15 fifth nerve, the fifth nerve root of the neck, the
16 sixth nerve root of the neck and the seventh nerve
17 root of the neck join together deep inside the neck
18 to form the long thoracic nerve, which then passes
19 very deeply in the neck behind the collarbone, and
20 then over the first rib, and then down the side of
21 our body to supply the serratus anterior nerve. In
22 other words, this is the nerve which allows the
23 serratus muscle to perform its activities.

24 Okay, you have given us a lot of information
25 &- there, but to start with, you said that this nerve

1 starts from branches up near the spinal cord?

2 A. Right in the -- right, that is correct.

3 Q. Is that C-5, the cervical vertebrae 5, 6 and
4 7?

5 A. Yes, correct.

6 Q. Now, we are getting a little ahead of our
7 story here, but from your review of the records, are
8 you aware that Mr. Nielsen-Mayer had had surgery in
9 that area in the past?

10 A. Yes, he did.

11 Q. Where was his surgery, do you recall?

12 A. His surgery was done in, I think February of
13 1982, at University Hospitals, and it was done
14 between the sixth and seventh bones of the neck,
15 between the sixth and seventh vertebrae, the disk
16 was removed.

17 Q. Now, just so we all understand correctly, the
18 long thoracic nerve starts in the back, and then --

19 A. Well, deep inside the neck, that is correct.

20 Q. And then it comes around under the collarbone
21 down the front of the body?

22 A. Well, down the side, it comes down along the
23 side, deep in the armpit.

24 Q. What is the function of a long thoracic
25 nerve?

1 A. The function of the long thoracic nerve has
2 only one purpose, and that is to supply or to
3 provide the motor innervation of one single muscle.
4 And it is sort of unique, it is a purely motor
5 nerve, it serves no sensory function whatsoever, and
6 it allows the serratus muscle to perform its
7 activities.

8 Q. So when you say it has no sensory function,
9 what does that mean?

10 A. That means that any problem involving the
11 long thoracic nerve would not lead to pain, or
12 numbness or tingling in any part of the body.

13 Q. Does it serve any other muscle except the
14 long -- the serratus anterior?

15 A. No, it does not.

16 Q. And the serratus anterior muscle, you showed
17 us on the diagram its beginnings there, correct; is
18 that what you said?

19 A. Yes, yes.

20 Q. Where is the long serratus muscle -- I am
21 sorry -- the serratus anterior muscle?

22 A. It is on the chest wall, this area right in
23 here (indicating).

24 Q. And what is the function of that muscle?

25 A. After it leaves the chest wall, it goes

1 underneath the bone called the scapula, and the
2 fibers of the muscle insert on the inside margin of
3 the scapula, which is the wing bone right back in
4 here (indicating).

5 Q. What does that muscle do, what is its
6 purpose?

7 A. It serves two basic purposes probably. One
8 is to fix the scapula to the chest wall during
9 certain movements, and the other is to facilitate a
10 forward movement of the arm like this (indicating).

11 Q. Does it actually cause the forward movement
12 of the arm?

13 A. No, no, it facilitates it.

14 Q. What do you mean by --

15 A. It makes it a more smooth kind of movement.
16 In other words, of in itself, it does not move the
17 arm at all, it has no attachment to the arm at all,
18 so it can't interfere with arm function in that
19 manner.

20 Doctor, have you ever treated a patient with
21 an injury to the long thoracic nerve?

22 Yes.

23 Based on your training and experience, and
24 everything you have read and learned about the long
25 thoracic nerve in your years as a neurosurgeon, can

1 you tell us what are the potential causes of an
2 injury to the long thoracic nerve?

3 A. Well, there is a very, very broad category of
4 injuries that are called stretching injuries, and as
5 described in our literature, and as I understand it,
6 as we understand it, stretching injuries occur in a
7 number of ways.

8 One, and the most common, is downward
9 traction (indicating), so that there are a number of
10 things that have been described as causing a
11 stretching injury, such as carrying a backpack or a
12 napsack over the shoulders; this kind of position
13 (indicating); unusual movements or sudden movements
14 that increase the angle between the neck and the
15 shoulder; it has been described in patients who
16 reach for trapezes: it has been described, patients
17 who have been lying face down on their hands
18 (indicating); it has been described with patients
19 who are leaning on their hands face down, like
20 reading a book, in this position, as well
21 (indicating).

22 Q. You mentioned stretching injuries. What
23 other types -- what other ways could the long
24 thoracic nerve be injured?

25 A. The long thoracic nerve could be injured

1 directly, a hard blow to the armpit or axilla could
2 conceivably injure it, stab wounds, a gunshot wound
3 that would pass in this area (indicating), and of
4 course, the surgeon's knife.

5 This was a -- not: a common problem, but this
6 was a recognized complication of doing a certain
7 type of operative procedure, which is not done very
8 commonly today, that is an operation that is called
9 a radical mastectomy, that is a radical operation to
10 treat breast cancer, in which not only was the
11 breast removed, but all the tissues and soft tissues
12 of the armpit are removed at the time.

13 Q. It that kind of a surgery, the nerve could be
14 cut directly, and in what area are you talking
15 about?

16 A. It would be the area of the armpit, right in
17 this area right in here (indicating).

18 Q. Now, Dr. Henderson has already testified that
19 Dr. Artz was nowhere near the nerve as far as
20 cutting it goes, during this procedure.

21 A. Oh, absolutely, he is certainly correct.

22 Q. Now, are there any medical problems that can
23 cause an injury to the long thoracic nerve? And
24 when I say, medical, I mean non-surgical types of
25 things?

1 A. Yes, there are a number of things that are
2 described, and certainly nothing that I have had
3 personal experience with, as far as I know. But it
4 has been described as occurring after brachial
5 plexus neuritis, which is not an uncommon disorder.

6 Q. Is that bursitis, is what you are talking
7 about?

8 A. No, neuritis, true neuritis. It has been
9 described -- it is a condition called neurogenic
10 amyotrophy, which I know nothing about, and I can't
11 tell you a thing about.

12 It has been described in certain cases of
13 serum sickness, which is a type of allergic illness,
14 and it has also been described as occurring after
15 receiving injections in one body part or another.

16 Q. How about activities of daily living, can
17 things like that ever cause an injury to the nerve?

18 A. It has been described.

19 Q. You mentioned before, things like carrying a
20 backpack?

21 A. Carrying a heavy suitcase, it has been
22 described in people doing archery (indicating), it
23 has been described in people performing a forceful
24 movement of the arm.

25 Q. How about sleeping?

i A. It has also been described of somebody
2 sleeping in a funny position, yes.

3 Q. Is it always possible to know the source of
4 an injury, the cause of an injury to the long
5 thoracic nerve?

6 A. No.

7 Q. Now, Doctor, at my request, have you reviewed
8 some certain materials in this case that pertain to
9 Mr. Nielsen-Mayer's care and treatment?

10 A. Yes.

11 Q. Could you tell us, please, what you have
12 looked at?

13 A. I reviewed a number of records from the
14 University Hospitals relating to his three
15 admissions; I reviewed records from Dr. Schnall;
16 records from Dr. Cole; I just looked at, today, a
17 record from Hillcrest Hospital; I have looked at
18 outpatient physical therapy records relating to this
19 gentleman with respect to the problems he was having
20 after his surgical procedure in 1982; I have looked
21 at a number of depositions.

22 Q. How about Dr. Artz' records?

23 A. Oh, yes, yes.

24 Q. Have you happened to see anything that
25 Mr. Nielsen-Mayer talked about?

- 1 A. Yes.
- 2 Q. Did you see his deposition?
- 3 A. Yes, I did look at his deposition.
- 4 Q. Did you also -- by the way, have you had a
- 5 chance to do any reading about this condition?
- 6 A. Lots of reading, yes.
- 7 Q. Doctor, have you also had an opportunity to
- 8 examine Mr. Nielsen-Mayer?
- 9 A. Yes.
- 10 Q. And when did you see him? Again, feel free
- 11 to look at your notes.
- 12 A. Excuse me, should I just move this?
- 13 Q. Yes, get this out of the way here.
- 14 A. I saw him in my office on the 12th of October
- 15 of 1990.
- 16 Q. And what sort of an examination did you
- 17 perform?
- 18 A. I treated him no differently from any other
- 19 patient that I would see. I took a history from the
- 20 patient.
- 21 Q. How about your examination, what did you
- 22 actually look at or have him do?
- 23 A. When I examined him, I had him disrobe, I
- 24 looked at him, tested the function of his upper
- 25 extremities, tested sensation in his upper and lower

1 extremities, tested his reflexes everywhere, made
2 some observations about them.

3 Q. Did you make a record of your findings on
4 your examination?

5 A. Oh, yes.

6 Q. In addition to an examination, did
7 Mr. Nielsen-Mayer give you any complaints, did he
8 report anything to you?

9 A. Sure. He told me -- do you want me to read
10 what he said?

11 Q. Yes, why don't you tell us what he complained
12 to you about on that day?

13 A. When I saw him, his first problem was that he
14 said that he couldn't lift his arm in front of him,
15 he complained of pain behind his right arm, actually
16 behind the shoulder blade, which he said was present
17 most of the time, and interestingly, he said that
18 exercise helped relieve this pain. I asked him
19 specifically if he had any pain in his right arm,
20 and he said no. He said occasionally he would have
21 an aching over the shoulder itself.

22 He related to me certain events which
23 occurred when he had this operative procedure on
24 the --

25 Q. Before we get into that, at the moment I

1 would like you to just look at what complaints he
2 made. How about his elbow, or anywhere else on his
3 arm?

4 A. Oh, yes, we are going to get to that.

5 Q. Okay.

6 A. He told me that during the time that he had
7 his surgical procedure in July of 1988, I believe,
8 he was complaining of numbness and tingling of the
9 entire right arm after the surgery, which occurred
10 immediately afterwards. He said that the entire
11 right arm was numb. This included all the fingers
12 and his thumb. He said that the same was true for
13 the left, but this was not as marked.

14 He could not recall any arm pain, he said
15 that -- that is when the operative procedure was
16 completed, when he left the operating table.

17 He said that the numbness of his left arm
18 went away within a relatively brief period of time,
19 and that the numbness of his right arm may have
20 lasted, at the most, twenty-four hours. He said
21 that he had pain in the right arm on his way home.

22 The pain that he described was located over
23 the right scapula and over the right lateral part of
24 his arm up here (indicating). He also complained of
25 pain on the medial arm, that is the inside of the

i arm, and the elbow area, and he said he still had
2 this.

3 He told me that the right shoulder felt stiff
4 on the way home, and he said that immediately he
5 could not raise his arm.

6 Q. Doctor, after your examination of
7 Mr. Nielsen-Mayer, did you make a diagnosis?

8 A. After I examined him? Yes.

9 Q. And what was your diagnosis?

10 A. I felt that he had a serratus palsy on the
11 right side.

12 Q. And what causes a serratus palsy?

13 A. We have mentioned a number of things, but a
14 problem with the long thoracic nerve.

15 Q. So you diagnosed a problem with the long
16 thoracic nerve?

i7 A. Yes.

18 Q. Were the patient's complaints and your
19 findings that day, were they all consistent with a
20 long thoracic nerve injury?

21 A. Some of them were, and some of them weren't.

22 Q. And what was not?

23 A. Well, when I examined the gentleman, I could
24 note that he had winging of the scapula, that is
25 prominence of the scapular bone.

1 Q. And that is the bone in the back that you
2 mentioned to us?

3 A. That is correct.

4 Q. And you saw that?

5 A. Oh, yes, absolutely.

6 Q. Okay.

7 A. He said that he could not or had difficulty
8 elevating his right arm in this fashion
9 (indicating), and that the only way he could do it
10 was if he leaned up against a wall. And he leaned
11 up against the wall and put his arm up (indicating).

12 Q. What was the significance of that to you?

13 A. Well, it is the only patient I have ever seen
14 with this who had to raise his arm in that fashion.
15 Every patient that I have personally seen, and every
16 illustration that I have ever seen with a patient
17 who had a serratus palsy from a long thoracic nerve
18 injury could raise their arm in this fashion
19 {indicating).

20 He had no difficulty with any other arm
21 movements, including abduction, that is this fashion
22 (indicating), external or internal rotation, or any
23 other movements of any part of the arm.

24 I then tested his sensation by touching
25 various body parts with a pin, I tested sensation by

1 moving various body parts in space with his eyes
2 closed, and then I struck various body parts with a
3 rubber hammer to test his reflexes, and I noticed
4 that there were no abnormalities in any of these.

5 Q. Doctor, in the records that you have
6 reviewed, have you found any evidence that this
7 patient had a problem with his scapula before July
8 14th of 1987, the day of Dr. Artz' surgery?

9 A. Yes, I have.

10 Q. And what did you find?

11 A. When I finally went through the records from
12 University Hospitals, specifically the physical
13 therapist, the patient went to a physical therapist
14 after his operative procedure on the neck for a long
15 period of time.

16 Q. When was that?

17 A. The surgery was done in February of 1982, and
18 he had a prolonged period of a number of complaints
19 with reference to his neck and his right upper
20 extremity, and --

21 Q. What surgery was that again?

22 A. That was the operation where he had a disk
23 removed from the neck.

24 Q. Okay.

25 Cervical disk surgery?

- 1 A. Yes.
- 2 Q. And do you recall what day that surgery was
3 done, or what month, at least?
- 4 A. Well, it was done in February of 1982.
- 5 Q. Okay.
- 6 A. 2-24-82.
- 7 Q. And then what happened after that surgery?
- 8 A. Well, he had complaints with reference to
9 pain and difficulty with the right upper extremity
10 and neck for a prolonged period of time, and the
11 physicians who were caring for him referred him to a
12 physical therapist at the University Hospitals.
- 13 Q. Now, do you, yourself, perform cervical disk
14 surgery?
- 15 A. All the time, yes.
- 16 Q. And how long of a period of time was
17 Mr. Nielsen-Mayer getting physical therapy after
18 that surgery in 1982?
- 19 A. Well, it went on for at least five months
20 after the surgery.
- 21 Q. Is that normal?
- 22 A. No.
- 23 Q. Now, have you had a chance to look at the
24 physical therapy records?
- 25 A. Yes.

1 Q. And did you find anything in those records as
2 far as problems with the arm or the scapula?

3 A. Well, he went there because of a problem with
4 his arm. There is a note dated 7-26-82 by Mr. --

5 Q. What is the date again?

6 A. 7-26-82, by Mr. Jacobs.

7 Q. Who is Mr. Jacobs?

8 A. I presume he is a physical therapist.

9 Q. What does that note say?

10 A. It says --

11 MR. WENDEL: Objection.

12 Q. Is there anything of significance in that
13 note to you?

14 A. Yes.

15 Q. And what is that?

16 A. Well, the patient was having a great deal of
17 difficulty with pain, and the therapist recommended
18 that with pain resolution the patient ought to have
19 exercises for "strengthening of all scapula
20 stabilizers."

21 Q. What does that suggest to you?

22 A. Well, that there was a problem --

23 MR. WENDEL: Objection.

24 A. -- with the scapula at that time.

25 Q. Thank you.

1 By the way, Doctor, have you ever seen a
2 patient who developed a long thoracic nerve problem
3 following cervical disk surgery?

4 A. Yes.

5 Q. And how did you happen to see that patient?

6 A. It happened to one of my patients.

7 Q. Did you ever determine the cause for it in
8 that patient?

9 A. No.

10 Q. Now, Doctor, going ahead with
11 Mr. Nielsen-Mayer's other treatment, there has been
12 some testimony in this case about being able to
13 determine whether there is an injury or the location
14 of an injury to the long thoracic nerve only through
15 autopsy.

16 A. No, there are other ways to do that.

17 Q. There are other ways to do that?

18 A. Oh, sure.

19 Q. And what are the ways to do that?

20 A. Well, besides the physical examination, one
21 can do nerve studies, one can perform an EMG.

22 Q. And what is an EMG?

23 A. An EMG is a test that is done usually by a
24 specialist in neurology, but occasionally a
25 specialist in physical medicine, by physicians who

1 are trained to interpret squiggly tracings that
2 appear on something that looks like a TV screen, but
3 what is done is, is that fine, tiny needle
4 electrodes are placed -- actually placed in certain
5 muscles, and that a skilled physician can interpret
6 the squiggles, or electrical activity that is
7 recorded from those muscles, and on the basis of the
8 nature of those changes can determine, one, is there
9 an abnormality or isn't there, and if there is an
10 abnormality, what the nature of that abnormality is.

11 Q. So by looking at the function of the response
12 of the muscle, the physician can tell if there is a
13 problem with the nerve; is that a fair statement?

i4 A. That is correct, yes, it is a very fair
i5 statement, it is a correct statement.

16 Q. Did Mr. Nielsen-Mayer have that test done?

i7 A. Yes.

18 Q. And when was that done?

19 A. That was done I think about five or six
20 months after the operative procedure, and --

21 Q. If you could find that report.

22 A. Yes.

23 Q. I think it is in Dr. Cole's chart.

24 A. Yes, it is.

25 That was done by -- that was done on the 25th

1 of February of 1988 by Dr. Horwitz, who is a
2 neurologist at University Hospitals.

3 Q. What did that test show?

4 A. Well, it is a little unusual. His impression
5 was, and I can't -- the needle EMG is entirely
6 normal with the exception of the right serratus
7 anterior which shows some diminished recruitment but
8 no fibrillations or chronic neurogenic potentials,
9 which is something that one might see with a
10 significant injury to the serratus muscle.

11 And his impression is that this study shows a
12 possible loss of motor units in the distribution of
13 the long thoracic nerve but is otherwise normal.

14 So it is a very borderline iffy kind of EMG.

15 Q. If there is -- what would you expect to see
16 if there was significant injury to the long thoracic
17 nerve?

18 A. You would expect to see an EMG that is
19 totally typical.

20 Q. What do you mean by that?

21 A. Well, I am not an EMGer, but there are no
22 fibrillation --

23 MR. WENDEL: Objection.

24 Q. Without getting too specific, but would you --
25 if there is an injury to the long thoracic nerve,

1 would you expect to see evidence of that on an EMG?

2 MR. WENDEL: Objection.

3 A. Yes, absolutely.

4 Q. Does an EMG return to normal after an injury
5 to the long thoracic nerve?

6 A. It certainly can.

7 If you assume that a patient has a very mild
8 injury, if an EMG were done several years after the
9 patient has achieved, say, totally normal function,
10 the EMG might be normal at that time.

11 Q. At several years?

12 A. Several years later.

13 Q. Would you expect it to be normal six months
14 after an injury?

15 A. Only in the circumstance that the injury was
16 very mild.

17 Q. Okay.

18 A. Otherwise, no.

19 Q. Doctor, were you able, after your examination
20 of Mr. Nielsen-Mayer, your review of the records,
21 were you able to determine a cause of the winged
22 scapula that you observed, or the long thoracic
23 nerve injury, rather?

24 A. No.

25 Q. Do you think there is any way to determine

1 the cause of Mt. Nielsen-Mayer's long thoracic nerve
2 injury?

3 MR. WENDEL: Objection.

*not set for
opinion*

4 A. No, no.

5 Q. I am sorry?

6 A. No.

7 Q. Now, you are aware from your review of the
8 records and the deposition in this case that
9 Mr. Nielsen-Mayer claims that he began having
10 problems with his shoulder and arm after the surgery
11 performed by Dr. Artz on July 14th of 1987.

12 Are you aware from your review of the records
13 of some of the particulars of the surgical
14 procedure, what happened that day?

15 A. Yes.

16 Q. And what is it that you know about it?

17 A. Well, the patient had a procedure -- the
18 patient was in an operating room for a total of
19 about a half hour, I don't know precisely how long
20 the operation itself lasted. The operation was done
21 under local anesthesia so that the patient was fully
22 awake. It was done with the patient lying face
23 down.

24 There is some discrepancy as to where the
25 patient's arms were placed, and I am not in a

1 position to say one way or the other exactly how
2 they were placed.

3 Q. What is the discrepancy you understand?

4 A. Well, the patient says that -- assuming that
5 I am lying face down, his arms are straight out like
6 this (indicating).

7 Q. You mean down in front of him?

8 A. You know, just hanging in front of him.

9 There is a suggestion that his arms were not
10 in that position.

11 Q. And what is the other position?

12 A. Well, the other position one can be in, you
13 would have your arms either at your sides down here
14 (indicating), or arms under your chin (indicating),
15 or sort of tucked like this (indicating).

16 Q. Okay.

17 By the way, do you ever position patients in
18 any of those positions for surgeries that you
19 perform?

20 MR. WENDEL: Objection.

21 A. All the time.

22 Q. I am sorry?

23 A. All the time.

24 Q. Now, I would like to show you some
25 photographs that have been marked as Exhibits 1 and

w/d

1 2, and I would like you to assume that those are
2 photographs that were taken by Mr. Wendel of the
3 actual operating table. I think those photographs
4 were taken in April of 1990. That is the actual
5 room and the table on which Mr. Nielsen-Mayer was
6 placed.

7 Okay?

8 A. Yes.

9 Q. Now, I would like you to follow along with
10 me, I am going to ask you to make certain
11 assumptions in order to answer my next question,
12 okay?

13 A. Okay.

14 Q. I want you to assume that Mr. Nielsen-Mayer
15 was lying on the table that you see in those
16 photographs on July 14th of 1987; assume that he
17 did, for the moment, let us assume that he did have
18 his arms hanging over the sides of the table for a
19 maximum of thirty minutes; assume that during that
20 time period the patient was awake, that he was
21 pumping his hands, moving his arms gently, trying to
22 get them up on the table, perhaps putting his hands
23 on the headrest extension that you see there.

24 Assuming those facts to be true, Dr. Shafron,
25 do you have an opinion as to whether

1 Mr. Nielsen-Mayer sustained a stretch injury to his
2 long thoracic nerve during that surgical procedure?

3 MR. WENDEL: Objection.

4 A. I have an opinion.

*no standard for
opinion — prob vs
poss*

5 Q. And what is your opinion?

6 A. That he could not have.

7 Q. And what is the basis for your opinion?

8 A. Well, there are a couple of reasons. One,
9 even if one were to assume that his arms were
10 straight down like this (indicating), this would not
11 produce a stretch of the long thoracic nerve.

12 Q. Why not?

13 A. Because it is not the position that is
14 described. The positions that are described are
15 positions that are straight out, out to the side, or
16 like this (indicating), or down like this
17 (indicating).

18 Q. With the arms straight out in front of him,
19 where is the long thoracic nerve, what is it doing?

20 A. You mean straight out like this (indicating)?

21 Q. Yes.

22 A. It hasn't moved. This type of activity
23 wouldn't necessarily -- this position straight down
24 (indicating), would not stretch the nerve.

25 The other thing, of course, is that if these

1 bars project from the outside of the table, that
2 would have kept his arms really from being straight
3 down.

4 MR. WENDEL: Objection. *no factual foundation*
5 Q. What bars are you talking about? *for statement*

6 A. There are two -- I don't know what metal, *assumes a fact.*
7 probably stainless steel bars alongside the *"if"*
8 operating table.

9 Q. Is there any way the camera could focus in so
10 the doctor can point to what he is talking about?

11 A. One here, one on the other side (indicating).
12 There are two bars on each side of the table, near
13 the head of the table. This is the head of the
14 operating table, and this is where his head would
15 have been at the time the surgery was done, he would
16 be lying face down, and his arms could not be -- go
17 straight down, or straight down like that
18 (indicating), if one imagines that I am on an
19 operating table.

20 Q. Why not?

21 A. Because the bars are around the sides, and
22 they would --

23 MR. WENDEL: Objection. *now makes it*
factual.

24 A -- tend to keep -- the arms would have to go
25 around the bars, and so the arms would not hang

1 straight down.

2 O. Any other reason, Doctor, why you feel that
3 during this surgical procedure, under the assumed
4 facts I have given you, that Mr. Nielsen-Mayer could
5 not have sustained a stretch injury to the nerve?

6 MR. WENDEL: Objection.

7 A. In an awake patient, the arms are not dead
8 weights, I mean, the patient is moving his arms, the
9 arms aren't flopping like dead weights, there is
10 muscle tone keeping the arms -- maintaining the arms
11 in certain positions, and he is not going to lie
12 totally still like this for a half hour, no way

13 MR. WENDEL: Objection.

*no factual basis
for assumption*

14 Q. Doctor, you told us earlier that you had an
15 opportunity to examine Mr. Nielsen-Mayer on October

16

17

18 Q. Now, we have just today obtained the records
19 from Hillcrest Hospital. I think you have those
20 down there?

21 A. Yes.

22 Q. That was for an admission in July of 1989,
23 which was about two years after Dr. Artz' surgery,
24 and a year before you saw the patient, correct?

25 A. Yes.

1 Q. Now, have you had a chance to look at at
2 least parts of those records today?

3 A. I did today, yes.

4 Q. And I would like you to look for a document
5 that I am going to show you now, I will show you my
6 copy.

7 Can you find that in the copy of the chart?

8 A. Yes, ma'am.

9 Q. Can you tell us, please, what that document
10 is?

11 A. This is an admission physical examination
12 that was done by a physician on 7-6-89.

13 Q. By the way, what was the purpose for that
14 hospital admission, do you have a --

15 A. He had a problem with -- he has a problem,
16 what we call chronic pulmonary disease.

17 Q. It is a respiratory problem?

18 A. It is a respiratory problem, yes.

19 Q. So this admission had nothing to do with his
20 arms, or anything like that?

21 A. Correct.

22 Q. Now again, looking back at that document --
23 and what was that again, please?

24 A. This is the admission history and physical
25 examination.

1 Q. And who was that done by, can you tell?

2 A. I can't read the handwriting, to be honest
3 with you. It was done by some physician, but I
4 really can't tell.

5 Q. And on the second page, is it, of that form,
6 that was a physical exam?

7 A. Yes.

8 Q. And what were that physician's findings as
9 concerning Mr. Nielsen-Mayer's joints --

W/D 10 MR. WENDEL: Objection.

11 Q. -- and his ability to move?

W/D 12 MR. WENDEL: Objection.

13 A. Do I just go ahead and read it?

14 Q. Yes, what is noted in the chart?

15 A. Noted that range of motion within the limits
16 of normal.

17 Q. Okay.

18 A. He then looked at the back, and the muscles
19 and the bones, and he recorded that the back was
20 symmetrical.

21 Q. Any comment as to muscle tone?

22 A. He just has plus. You would have to ask him
23 what he meant.

24 Q. Okay.

25 A. I don't know.

1 He said the back was symmetrical, that is
2 all.

3 Q. From what you can tell from your review of
4 that examination, did that physician find any
5 problem with Mr. Nielsen-Mayers's ability to move
6 his arms?

7 MR. WENDEL: Objection.

8 A. According to this, no,

9 Q. Thank you.

10 Doctor, when you examined Mr. Nielsen-Mayer
11 on October 12th of 1990, was he able to move his
12 right arm?

13 A. Yes.

14 Q. And could you show us in what range he could
15 move it the day you saw him?

16 A. He could raise his arm up like this, like
17 this, he could do everything with this, what we call
18 rotational movements (indicating). He had no
19 weakness of any part of his arm. He would not or
20 could not -- I suspect he would not raise his arm up
21 like this (indicating), unless he leaned up against
22 the wall, he said this is the only way he could do
23 it, which is a little unusual in my own experience,
24 because every patient that I have seen with this has
25 been able to do that.

1 Q. Based on your examination that day, your
2 examination findings, did you see any reason why
3 Mr. Nielsen-Mayer would be disabled from performing
4 the tasks of daily living, such as eating, or
5 shaving, that kind of thing?

6 A. No.

7 Q. He is now employed as an architect. Do you
8 find any reason why he would be disabled to work as
9 an architect?

10 MR. WENDEL: Objection.

11 A. No.

12 MS. REINKER: Thank you, Doctor.

13 Nothing further.

14 CROSS EXAMINATION

15 BY MR. WENDEL:

16 Q. Doctor, my name is Fred Wendel, as you know,
17 since we took your deposition back in March of this
18 year, and I have a number of questions concerning
19 your examination and your testimony here today.

20 A. Surely.

21 Q. Doctor, you say that you do teaching and
22 patient care one hundred percent of your time --

23 A. That is correct.

24 Q. -- did I understand that?

25 A. Yes.

1 Q. Do you do defense medical examinations?

2 A. Sure.

3 Q. And that is not part of teaching, is it?

4 A. No.

5 Q. It is not also part of patient care, is it?

6 A. No.

7 Let us say ninety-nine percent of the time.

8 Q. Now, Doctor, when you talk about the long
9 thoracic nerve and its distribution to the serratus
10 anterior muscle, you talked about it passing through
11 the armpit; is that correct?

12 A. Well, deep inside, yes, over the first rib,
13 near the back of the armpit (indicating).

14 Q. We also call that the axilla, do we not?

15 A. Yes, yes.

16 Q. How many patients have you treated that have
17 had a serratus anterior palsy?

18 A. In the last two or three years, two.

19 Q. And before that?

20 A. I can't remember. It is not very common.

21 Q. I am sorry?

22 A. I can't remember. I can't give you an exact
23 number.

24 Q. So your experience with this type of injury
25 is limited, is it not?

1 A. Currently, yes.

2 Q. And historically, has it not been limited?

3 MS. RZINKER: Objection. *Not Relevant*

4 A. I don't understand your question.

5 Q. Well, you say that it is not a very common
6 injury?

7 A. I said that, yes.

8 Q. And you recall that only -- in the last few
9 years, you have only had two patients with this?

10 A. That is correct.

11 Q. So it is not something that you see very
12 often: is that correct?

13 A. No, that is correct.

14 Q. Have you ever seen any of your patients --
15 strike that.

16 Doctor, isn't it a fact that in the patients
17 that you have had in the last few years, you don't
18 know what the cause of their serratus anterior palsy
19 muscle injury were; is that correct?

20 A. Well, to be precise, very difficult to say.

21 Q. How many of your patients have ever had a
22 serratus anterior palsy problem from having the
23 placement of their hands under their chin in a
24 surgical position?

25 A. To be honest with you, I never asked the

1 patients if they were lying that way. I don't know.

2 Q. When you are treating your patients, do you
3 ever try and determine the cause?

4 A. Sometimes it is very difficult.

5 Q. But do you try and determine the cause?

6 A. Sure.

7 Q. Have you ever asked a patient if they have
8 placed their hands or had their hands under their
9 chin --

10 A. No. Honestly, no.

11 Q. -- in a surgical position when they sustained
12 the injury?

13 A. No.

14 One patient was a patient after surgery, in
15 which the surgery was done with the patient lying on
16 his back. The other patient was a patient who
17 noticed this problem while she was carrying a tray
18 of meat.

19 Q. Doctor, you can't sit here and tell us today,
20 then, that any of the patients you have ever in your
21 experience treated for a serratus anterior palsy had
22 sustained that injury as a result of surgical
23 positioning with the hands under the chin, can you?

24 A. No, I cannot. No, no, of course not.

25 Q. Doctor, you have no information concerning

1 any brachial plexus neuritis in Mr. Jorgen
2 Nielsen-Mayer's history; is that correct?

3 A. To the best of my knowledge, that is correct.

4 Q. And you have no history of a serum sickness
5 in Mr. Nielsen-Mayer's history; is that correct?

6 A. That is correct, sir.

7 Q. You have no information or history that there
8 were any injections involved that would have caused
9 this type of injury; is that correct?

10 A. Well, no, that is not necessarily -- he was
11 injected with a medication called Novocain, or some
12 local anesthetic, for the surgery.

13 Q. Do you have any belief that that injection
14 caused this injury?

15 A. It certainly would be most unusual in my
16 experience.

17 Q. You had no history or evidence in this
18 particular case that Mr. Nielsen-Mayer slept in a
19 funny position, do you?

20 A. I don't know that.

21 Q. So in other words, the answer to that is you
22 have no such information?

23 A. I have no such information.

24 Q. Thank you.

25 Doctor, isn't it a fair statement that a

1 patient with a long thoracic nerve injury which
2 develops into a serratus anterior muscle palsy, the
3 only problem they are going to have with their range
4 of motion of that right arm is the ability to raise
5 the arm in front of them; is that correct?

6 A. They can do that, they can do that. They
7 don't have to lean against a wall at all.

8 Q. Oh, no, not to a certain extent. They have a
9 limitation, do they not, Doctor?

10 A. There is -- may I answer the question?

11 Q. Can I get the question out, though.

12 A. You asked me the question. I thought you
13 asked the whole question.

14 Q. I don't believe I had finished it.

15 A. Start again, go ahead.

16 Q. Doctor, isn't it a true statement that the
17 only limitation in the range of motion a patient is
18 going to have, who has a long thoracic nerve injury
19 resulting in a serratus anterior palsy muscle, will
20 be a problem elevating the arm in front of them?

21 A. They can do the motion; it is done with not
22 the same smooth motion as someone who would have an
23 intact serratus anterior. In other words, there is
24 nothing in the serratus palsy that prevents the
25 patient from getting their arm up like this

1 (indicating), they can all do it.

2 Q. What is winging, Doctor?

3 A. The scapula becomes prominent because it is
4 not fixed to the chest wall firmly by the serratus
5 muscle during this motion, or particularly this
6 motion of pushing (indicating).

7 Q. Is the scapula an important factor in
8 elevating the arm in front of the patient?

9 A. It is a factor. It is not an important
10 factor.

11 Q. Thank you.

12 Is the health of the, or the condition of the
13 serratus anterior musculature an important factor in
14 elevating the arm?

15 A. It is a factor -- no, it is not a factor in
16 terms of elevating the arm. The muscle itself has
17 nothing to do with the arm. The action of that
18 muscle has nothing to do with raising the arm.

19 Q. But indirectly, doesn't it, Doctor --

20 A. Indirectly, it affects --

21 Q. -- in the fact that it --

22 A. -- the ease with which a patient can raise
23 the arm, and it does not prevent the patient -- a
24 serratus palsy does not prevent the patient from
25 raising the arm above the horizontal.

1 Q. Doctor, doesn't the serratus anterior muscle
2 affix or help affix the scapula to the rib cage
3 area?

4 A. To the -- yes, it does.

5 Q. And the scapula is one of the bones in the
6 shoulder, is it not?

7 A. Well, it is not really in the shoulder joint.

8 Q. It is considered one of the three bones in
9 the shoulder joint, is it not, Doctor?

10 A. Well, that is not really intimately related
11 to the shoulder joint itself.

12 Q. Okay.

13 A. It is related to it, sure.

14 Q. Tell us which bones are related to the
15 shoulder, Doctor?

16 MS. REINKER: Objection, ^{2nd time} /, +

17 A. Well, there is the humerus, the scapula, the
18 humerus, the clavicle.

19 Q. And Doctor, isn't the scapula in kind of a
20 fulcrum to allow the muscles in the arm and in the
21 chest to raise the arm or elevate the arm?

22 A. No, it is not. I am not a mechanic, and I
23 can't be very mechanical about this. The arm can be
24 raised without -- the arm can be elevated without a
25 functioning serratus muscle, there is no question

1 about it. I have said that it facilitates the
2 rotational movements of the scapula when one raises
3 the arm like this (indicating), and it helps do that
4 by helping fix the scapula to the posterior chest
5 wall.

6 Q. And if the scapula is not well fixed, there
7 is a problem elevating the arm, is there not?

8 A. There is a problem elevating the arm, yes.

9 Q. Thank you.

10 Now, you said that Mr. Nielsen-Mayer had a
11 prolonged period after his cervical disk injury of
12 physical therapy and problems thereafter.

13 A. Surgical disk surgery, yes.

14 Q. And you said that that prolonged period was
15 for five months, correct?

16 A. As far as I can tell.

17 Q. Doctor, isn't it a fact that the EMG that you
18 spoke of does not, in and of itself, test the long
19 thoracic nerve?

20 A. It tests the -- the EMG does not test a nerve
21 of in itself. It tests the muscle which is supplied
22 by the nerve.

23 Q. It does not test the nerve itself?

24 A. Yes, it does.

25 Q. Directly, Doctor?

1 A. No, the electrodes are not put in the nerve,
2 they are put in the muscle. That is a way -- that
3 is the way that study is done, and in a very
4 correct, almost direct way, it tests the integrity
5 of a nerve.

6 Q. But you don't actually stimulate the nerve
7 itself, do you, Doctor?

8 A. No, no. No, no, no.

9 Q. You cannot, because you can't get at the
10 nerve, correct?

11 A. Oh, I think it probably could be done, but
12 that is not what is routinely or usually done in a
13 test like this, for this -- with this nerve, and
14 with this muscle.

15 Q. Now, Doctor, what happens with EMGs is
16 certain values are presented to the examiner, and
17 they have to interpret those, do they not?

18 A. That is correct.

19 Q. And isn't it a fact, Doctor, that the EMG
20 that was performed by Dr. Horwitz on Jorgen
21 Nielsen-Mayer back on February 25, 1988 was not
22 entirely normal?

23 A. Oh, I said that.

24 Q. Okay, I just want to make sure that there is
25 no dispute on that.

1 A. No.

2 Q. Okay.

3 A. It has a -- well, I am not -- the
4 interpretation is there for the record.

5 Q. Doctor, you have no particular experience
6 with a patient who has had problems with a long
7 thoracic nerve injury after surgical positioning,
8 have you, to your knowledge?

9 A. Not as far as I know.

10 Q. Doctor, you don't know what the size of that
11 table was, do you?

12 A. Do I have the dimensions of it?

13 Q. Yes.

14 A. No, I don't know.

15 Q. You don't know what the width of that table
16 is, do you?

17 A. No. I have an idea. It is a standard
18 operating table.

19 Q. But you don't know what the actual
20 measurements are?

21 A. No, sir.

22 Q. You don't know what the measurements of
23 Mr. Nielsen-Mayer's chest are, do you?

24 A. No, sir, I do not.

25 Q. Now, Doctor, with a patient with a long

1 thoracic nerve injury with a serratus anterior
2 palsy, they would have a normal range of motion,
3 would they not, save for the fact they cannot
4 elevate the arm easily in front of them?

5 A. That is correct.

6 Q. Doctor, do you know what kind of physician
7 performed this examination at Hillcrest Hospital
8 that you talked about before?

9 A. I can't even read his signature. I don't
10 know.

11 Q. You don't know what kind of physician he is,
12 then, do you?

13 A. No, sir, I do not.

14 Q. You don't know of his competency in making an
15 examination of the muscles or bones of a patient's
16 body?

17 A. I don't know if it is a he or a she. I don't
18 know who it is.

19 Q. Let me rephrase that.'

20 You don't know his or her competency, then,
21 to perform an examination of the muscles or bones of
22 a patient's body, do you?

23 A. I have no idea.

24 Q. Isn't it a fact that what the patient went in
25 for, that is Mr. Nielsen-Mayer, was basically a

1 respiratory problem?

2 A. That is correct.

3 Q. And he did not go in at that time for
4 purposes of being treated or examined for any
5 problem that he had lifting his arm; is that
6 correct, Doctor?

7 A. That is correct, that is correct.

8 Q. Now, Doctor, you found that in your
9 examination on October 12, 1990, that
10 Mr. Nielsen-Mayer did in fact have winging of his
11 right scapula?

12 A. Yes.

13 Q. And that is consistent with a long thoracic
14 nerve injury, is it not, Doctor?

15 A. Yes.

16 Q. It is also consistent with a serratus
17 anterior muscle palsy?

18 A. Yes.

19 Q. And as you mentioned before, I believe, that
20 serratus anterior muscle palsy will cause problems
21 in elevating the arm, will it not?

22 A. Yes, yes.

23 Q. And that winging that you talked about is
24 what we call an objective finding, is it not?

25 A. Yes.

1 Q Can you tell us what an ~~obj~~ective finding is,
2 Doctor?

3 A. It is something that a doctor or an observer
4 can see that is independent or totally unrelated to
5 anything that the patient can control.

6 Q. So in other words, what the patient tells you
7 is immaterial; you can see it yourself as the
8 physician, correct?

9 A What is ~~correct~~ sir

10 Q. And you don't have to rely upon the truth of
11 the patient's statements to you to make that
12 finding?

13 A No, that is correct

14 Q Thank you.

15 And isn't it also true that during the course
16 of that exam, he in fact did demonstrate to you a
17 difficulty elevating his right arm?

18 A. Yes, he did.

19 Q. Doctor, you didn't measure for muscle
20 atrophy, did you, during your exam?

21 A No, no

22 Q. Now, atrophy would indicate a problem with
23 the muscle, would it not?

24 A. I wouldn't know how to measure a person -- I
25 wouldn't know how to measure a patient for serratus

1 atrophy.

2 Q. But you didn't measure it anyway?

3 A. I wouldn't know how to do it.

4 Q. Okay.

5 A. I don't know how anyone would know how to do
6 it.

7 Q. Doctor, a stretch injury can occur to a long
8 thoracic nerve, can it not?

9 A. Yes.

10 Q. And if a patient's arms are just dangling
11 down by their side in an unsupported fashion by any
12 means, that can create what we commonly know as dead
13 weight, can it not?

14 A. Well, if the patient were asleep during an
15 operation, the answer is absolutely yes, but not
16 while he is awake.

17 Q. Even if they are unsupported?

18 A. Yes.

19 Q. Doctor, isn't it a fact that during your
20 deposition, you had testified that you could not say
21 one way or the other whether Mr. Nielsen-Mayer's
22 positioning will cause an injury to the long
23 thoracic nerve: didn't you testify to that during
24 your deposition?

25 A. I said I didn't know how it could, and I

1 still say that.

2 Q. And isn't it a fact -- but you also said
3 during that deposition that you didn't know one way
4 or the other, did you, Doctor?

5 MS. REINKER: Objection. *OR*

6 A. May I see the statement, please?

7 Q. Certainly.

8 MS. REINKER: Can I have a cite,
9 please?

10 MR. WENDEL: Page eleven, lines four
11 through nine.

12 Q. (Continuing) Let me read it to you, then I
13 will show it to you.

14 A. Okay, sir.

15 Q. "Do you have an opinion based on a reasonable
16 degree of medical certainty as to whether that can
17 be a productive mechanism to a long thoracic nerve,"
18 that is arms dangling by the sides.

19 Your answer, "I have no idea."

20 "Question: You are not saying one way or the
21 other?

22 "Answer: Correct, no idea."

23 A. Okay.

24 Q. Would you check and make sure that --

25 A. Oh, I am sure you read it correctly.

1 Q. Okay.

2 Now, Doctor, today you are saying something
3 differently, are you not?

4 MS. REINKER: Objection. 

5 A. Wait a minute, now. What lines were you
6 reading again, sir?

7 Q. I am reading the lines four through nine, and
8 it refers above that to the dangling of the arms.

9 A. Okay.

10 Well, if one were to really be specific about
11 that statement, dangling to the sides is really a
12 little ambiguous.

13 Q. Well, you didn't have a problem with it back
14 then, Doctor, did you?

15 A. Well, no. No, no. But dangling straight
16 down like this (indicating).

17 Q. You didn't question it back then when I --

18 A. Well, I am questioning it now. And the
19 answer to your specific question is, as I said, was,
20 can dangling at the sides, which really is dangling
21 over the edge of the table, not at the side of it --
22 the question is, dangling over the sides of the
23 operating table (indicating), this is what we mean
24 by that, or this is what I assume you meant by that.

25 Q. That is what I mean by it today.

1 A. Yes.

2 Well, I don't think so, in answer to that
3 question specifically. I suppose it is possible,
4 but I don't think it is.

5 Q. But Doctor, the point I am trying to make
6 here is, today you are telling us that position
7 could not cause this injury. Back then, when you
8 were deposed under oath, you made the statement, you
9 could not tell us one way or the other; isn't that
10 correct?

11 A. Let me -- may I qualify my answer?

12 Q. Well, first let me ask it --

13 A. Yes, that is correct, what I said here, sure.

14 Q. Thank you.

15 A. Okay.

16 Q. Let me have that back if I can, Doctor.

17 A. Sure.

18 Q. Doctor, you found no evidence of a laceration
19 of a long thoracic nerve here, did you?

20 A. There is absolutely no way I could determine
21 that, no.

22 Q. Doctor, you had no evidence or history of
23 long -- prior long thoracic nerve injury to
24 Mr. Nielsen-Mayer before the surgery?

25 A. Well, I don't know that.

1 Q. But you have no history of it, do you?

2 A. Well, there is history suggested in the
3 University Hospital records, but I don't have
4 anything else other than that.

5 Q. But Doctor, you don't know what the
6 University Hospital records make reference to,
7 because you didn't make the examination back then?

8 A. Of course I didn't.

9 Q. Thank you.

10 The term, long thoracic nerve injury, was not
11 used in the University Hospital records was it?

12 A. It is only mentioned by the physical
13 therapist who was going to call a physician.
14 Whether he did or not, I don't know.

15 Q. And he didn't talk about long thoracic nerve
16 injury in that record, did he, Doctor?

17 A. No, sir, he did not.

18 Q. He didn't talk about a serratus anterior
19 muscle palsy, did he, Doctor?

20 A. Well, he may have, because he mentioned the
21 word scapular stabilizers.

22 Q. But he didn't use the term, though, did he,
23 Doctor?

24 A. No, he did not.

25 Q. Thank you.

1 He didn't use the term, winging, back then,
2 did he, Doctor?

3 A. No, sir, not that I know of.

4 Q. And you have no history of winging, do you,
5 Doctor?

6 A. No, sir.

7 Q. You have no history in Mr. Nielsen-Mayer's
8 case of any prior atrophy before the surgery, do
9 you, Doctor?

10 A. Atrophy of what?

11 Q. Atrophy of the serratus anterior palsy --
12 serratus anterior muscle, I am sorry.

13 A. First of all, I don't know how anyone can
14 determine that, so I really -- I had never even
15 mentioned the term, because you can't determine
16 whether or not there is atrophy of the serratus
17 muscle.

18 Q. So the answer, then, is there would be no
19 evidence of it?

20 A, There is no evidence -- there is no evidence
21 of atrophy, of course not, then and now.

22 Q. And there is no evidence of winging, though,
23 is there?

24 A. Not as far as I know.

25 Q. And you have no history, do you, Doctor,

1 direct history, that there is an indication that
2 Mr. Nielsen-Mayer had a difficulty elevating his arm
3 in front of him, but had full range of motion in all
4 other movements of the right arm, do you?

5 A. I don't know of anybody who ever examined him
6 for that before Dr. Artz' surgery.

7 Q. So I am just asking the question --

8 A. There is no evidence, sure.

9 Q. -- there is no evidence?

10 A. That is correct.

11 Q. Now, Doctor, you would agree, would you not,
12 that the -- you don't see how the positioning at
13 surgery could cause an aggravation of the previous
14 diskectomy that he had back in 1982; would you agree
15 with that?

16 A. Say that once more?

17 Q. You would agree that the positioning at
18 surgery would not cause an aggravation of the
19 previous diskectomy, would you?

20 A. I wouldn't think so.

21 Q. Doctor, you don't have the vaguest idea, do
22 you, whether the placement of arms in a folded
23 position could cause a long thoracic nerve injury,
24 do you?

25 A. It has been reported in the literature by at

1 least two different patients.

2 Q. You have learned that since your deposition;
3 isn't that true?

4 A. Well, I knew it before my deposition, but I
5 have seen the original articles whence it came. The
6 articles I had before that were review articles in
7 which those two cases were mentioned, but since that
8 time, I have seen the original articles.

9 Q. But back at your deposition, you had that
10 information available to you?

11 A. Sure.

12 Q. Do you remember me asking you in your
13 deposition -- and let me read it, and I will show it
14 to you.

15 A. Go ahead.

16 Q. Do you believe --

17 MS. REINKER: Cite, please.

18 Q. (Continuing) I am sorry, page fifteen, line
19 eighteen through twenty-two:

20 "Do you believe that the placement of the
21 arms in the folded position on the chest of the
22 patient or upper shoulder area while the patient is
23 lying on their stomach can cause injury to the long
24 thoracic nerve?"

25 Your answer was, "I don't have the vaguest

1 idea."

2 A. Well, I do now.

3 Q. But you didn't back then, did you?

4 A. No, that is correct.

5 Q. But you possessed the knowledge back then, I
6 think you just --

7 A. I don't know whether I possessed the
8 knowledge back then. All I know is what I am
9 telling you. What I am telling you is the truth.

10 Q. And now you are changing your story --

11 A. I am not changing my story.

12 Q. -- from what you had back during your
13 deposition.

14 A. I didn't know in March of 1991. I know now,
15 today.

16 Q. Have you had conversations, by the way, with
17 defense counsel prior to your deposition today?

18 A. Yes.

19 MS. REINKER: Objection.

20 Q. Doctor, you have no idea how long a nerve
21 must be subjected to trauma to result in a permanent
22 injury, specifically long thoracic nerve, do you?

23 A. It depends what kind of trauma you are
24 speaking of, sir.

25 Q. How about a stretch?

1 A. I have no idea.

2 Q. Doctor, would you agree there is no injury at
3 the nerve root here?

4 A. Oh, I think that is a correct statement.

5 Q. Correct statement?

6 A. Yes.

7 Q. Doctor, would you agree to your belief that
8 Mr. Nielsen-Mayer had a complete recovery from his
9 diskectomy?

10 A. Yes, I think so. I think so.

11 Q. Do you believe that the injury that he now
12 possesses, to whatever extent you believe it exists,
13 is permanent?

14 A. I think to some extent the changes are
15 permanent.

16 Q. Do you believe that there is no effective
17 treatment for it at this point?

18 A. I do believe that.

19 Q. And do you believe that the only means to
20 have a serratus anterior palsy is to injure the long
21 thoracic nerve in some means?

22 A. Yes.

23 Q. And that a stretch type injury to the long
24 thoracic nerve would likely result in the
25 interference of the serratus anterior muscle?

1 A. Yes.

2 Q. There is no evidence of any radiculopathy in
3 this case, is there, Doctor?

4 A. I certainly don't believe so.

5 Q. Doctor, I believe you testified a little
6 while ago that you did not believe the surgery would
7 have caused this injury. Did I understand you
8 correctly, or not?

9 A. The surgery itself? That is correct.

10 Q. How about the positioning?

11 A. I do not believe so.

12 Q. Doctor, do you know Dr. Artz, by the way?

13 A. Yes.

14 MR. WENDEL: I have nothing further.

15 REDIRECT EXAMINATION

16 BY MS. REINKER:

17 Q. Dr. Shafron, you know Dr. Artz
18 professionally, as a colleague?

19 A. As a colleague, I don't know him socially.

20 Q.

21 A. I can't remember the last time I saw him.

22 Q. Now, when you examined Mr. Nielsen-Mayer, you
23 found a winged scapula?

24 A. Yes.

25 Q. Which comes from some injury to the long

1 thoracic nerve, you have told us that?

2 A. Yes.

3 Q. Is there any way that you could tell how long
4 he had that, whether it was days, months, weeks,
5 years?

6 A. No.

7 Q. How did he demonstrate to you that he had
8 trouble elevating his arm?

9 A. Well, he either wouldn't -- well, he wouldn't
10 elevate his arm above the horizontal (indicating).

11 Q. So essentially you asked him --

12 A. Oh, yes, absolutely.

13 Q. -- to move the arm?

14 A. But he said, if I lean against a wall, I can
15 do it, and indeed he did.

16 Q. Did you observe any atrophy of any muscles
17 when you were looking at him?

18 A. You can't -- you can't measure the muscles of
19 the shoulder --

20 Q. Did you see anything noticeable?

21 A. The only way that one can -- if you can't
23 measure -- you can't measure a shoulder girdle, you
23 can't measure one half a chest wall. So you know,
24 you can't -- it is not that I -- you can't
25 demonstrate atrophy of the serratus muscle, there is

no way to do it.

2 You can infer, though -- let us say he had
3 another EMG examination, if he had a normal EMG,
4 which was basically normal at the time he had his
5 first one, then there should not be any atrophy of
6 the serratus muscle, but there is no way that I can
7 see it, or anyone else.

8 Q. The difficulty that a patient -- strike that.

9 When a patient has a serratus palsy, serratus
10 palsy, you mentioned earlier that they have -- that
11 they may have some abnormalities in lifting their
12 arm: is that correct?

13 A. Yes.

14 Q. And does that again have anything to do with
15 the movement of the arm itself?

16 A. No.

17 Q. And the difficulties that you were referring
18 to that the patient might have, what did you mean by
19 that?

20 A. The muscles that allow us to move the arm in
21 any direction, there are several in number, none of
22 these muscles is the serratus muscle itself. The
23 serratus muscle facilitates a smooth elevation of
24 the arm (indicating).

25 Q. So the only thing the serratus muscle does

1 during that movement --

2 A. It is a facilitator.

3 Q. -- is to hold the scapula down; is that
4 correct?

5 A. Yes, yes.

6 Q. Doctor, I gave you a question earlier where I
7 asked you to assume certain facts about this
8 particular patient in this particular case, as to
9 whether, with those assumed facts, if they are true,
10 whether you had an opinion that the long thoracic
11 nerve injury Mr. Nielsen-Mayer has was sustained
12 during the surgery: do you recall me asking you that
13 question?

14 A. Yes.

15 Q. Just so we all understand clearly, in some
16 other case, with some other facts, do you believe it
17 is possible, arms dangling off the table could cause
18 potentially a stretch injury, with some other case,
19 with some other facts?

20 MR. WENDEL: Objection. *fundata*

21 A. I don't know.

22 Q. But in this particular case, with the facts
23 as I have asked you to assume them to be, do you
24 have an opinion as to whether the nerve injury
25 occurred during the surgery performed by Dr. Artz?

MR. WENDEL: Objection. *std of*

opinion?

A. I gave my answer, I do, and I don't believe that the surgery did it.

MS. REINKER: Thank you, Doctor.

RE CROSS EXAMINATION

BY MR. WENDEL:

Q. Doctor, though you may not be able to measure atrophy, there are times you can visualize it, true?

A. Sure.

Q. Now, just so we understand the purpose of the serratus anterior muscle, it, I think we can all agree, does not cause the arm to be elevated itself, there are other muscles that do that, correct?

A. That is correct, sir.

Q. When I was getting into -- what I was getting to a while ago was the using a fulcrum, the scapula, the way in which the body moves, there are muscles that work against one another and with bones to facilitate motions; is that correct?

A. Correct.

Q. And this scapula happens to be one of them: is it not true?

A. Yes.

Q. And the serratus anterior palsy -- I am sorry -- serratus anterior muscle purpose is to hold that

1 scapula down, correct?

2 A. For certain movements, correct.

3 Q. And one of those movements is the elevation
4 of the arm in front of the patient?

5 A. Correct, yes.

6 Q. And if that scapula moves or wings, if you
7 will, there is a difficult time elevating the arm;
8 is that true?

9 A. It is more difficult than normal.

10 Q. And it is because the scapula is not affixed
11 tightly against the chest wall that causes the
12 difficult movement: is that correct?

13 A. That is part of it, but the scapula, the
14 movement of the serratus and putting the scapula
15 forward is also part of that. In other words, there
16 is a twofold function, depending on what the
17 specific movement of the arm is.

18 There is some contraction of the serratus
19 muscle when you put your arm up, because the scapula
20 rotates forward a little bit, too, when you put your
21 arm up like this (indicating), so it is twofold.

22 And there is difficulty, there no question of
23 that, in terms of elevating the arm up. But it is
24 very difficult to measure in this patient, because
25 he doesn't behave like a normal patient with a

1 serratus palsy. He is the only patient I have ever
2 seen, and he is the only patient that I have ever
3 seen depicted with a serratus palsy who couldn't
4 raise his arm up unless he leaned up against the
5 wall.

6 Q. And that is in the vast number of cases that
7 you have had of serratus palsy patients?

8 A. Not only the vast number of -- not only in
9 the -- of course, you used the word vast, I didn't.
10 Not only in my own patients, but in every picture
11 that I have ever seen of any patient with a serratus
12 palsy, they are all like this with their arms up
13 (indicating), and they are not leaning against the
14 wall.

15 And the purpose of their illustration being
16 illustrated this way is so that you can see what the
17 shoulder looks like when they have their arms up,
18 and none of them is looking -- is leaning against
19 the wall.

20 Q. Doctor, in those pictures, the patient
21 doesn't always have their arms up at equal levels,
22 do they?

23 A. If you would like to see the pictures, I will
24 be glad to show them to you, and they do.

25 Q. I have seen some of those pictures, as well.

1 A. Yes. They do.

2 Q. Now, Doctor, would you agree, then, that a
3 healthy serratus anterior muscle and a properly
4 affixed scapula will make the movement or the
5 elevation of the arm in front of the patient easy or
6 normal?

7 A. Of course -- well, of course, sure.

8 Q. And if it is a damaged muscle, and an
9 unaffixed scapula, the movement will be more
10 difficult; would you agree with that?

11 A. I think that is a reasonable thing to say.

12 MR. WENDEL: Thank you.

13 Nothing further.

14 MS. REINKER: Nothing further.

15 Thank you, Doctor.

16 THE WITNESS: You are welcome.

17 THE VIDEOGRAPHER: Doctor, you have
18 the right to view this videotape to prove its
19 accuracy. You can also waive that.

20 THE WITNESS: I would prefer that,
21 sir.

22 THE VIDEOGRAPHER: Very good.

23 Will counsel waive any or all filing
24 requirements on this videotape?

25 MR. WENDEL: Yes.

MS. REINKER: Yes.

THE WITNESS: I also waive signature.

- - -

(DEPOSITION CONCLUDED)

(SIGNATURE WAIVED)

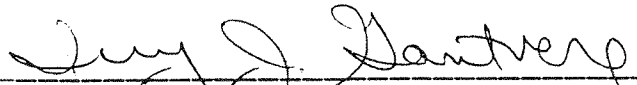
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CERTIFICATE

State of Ohio,)
) SS:
County of Cuyahoga.)

I, Ivy J. Gantverg, Registered Professional
Reporter and Notary Public in and for the State of
Ohio, duly commissioned and qualified, do hereby
certify that the above-named MELVIN SHAFRON, M.D.,
was by me first duly sworn to testify to the truth,
the whoie truth, and nothing but the truth in the
cause aforesaid; that the deposition as above set
forth was reduced to writing by me, by means of
stenotype, and was later transcribed into
typewriting under my direction by computer-aided
transcription; that I am not a relative or attorney
of either party or otherwise interested in the event
of this action.

IN WITNESS WHEREOF, I have hereunto set my
hand and seal of office at Cleveland, Ohio, this
12th day of May, 1991.


Ivy J. Gantverg, Notary Public
in and for the State of Ohio.
Registered Professional Reporter.
My commission expires September 13, 1993.