

TESTIMONY OF DR. GEORGE DIGIACINTO; 1995 Trial Trans. LEXIS 1117

SUPREME COURT OF NEW YORK, SUFFOLK COUNTY, I.A.S. PART VI

Index No. 13490/88

October 17, 1995

Reporter

1995 Trial Trans. LEXIS 1117 *

DEANNE ISAACSON, as Administratrix of the Estate of ELI ISSACSON, and DEANNE ISAACSON, Individually, Plaintiff, -against- DAVID LEIVY, Defendant.

Expert Name: Dr. Vincent DiGiacinto, M.D.

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Counsel

[*1] SIMONSON, HESS & LEIBOWITZ, P.C., Attorneys for Plaintiff, New York, NY, BY: STEVEN L. HESS, ESQ.
VARDARO & HELWIG, ESQS., Attorneys for Defendant, Smithtown, NY, BY: ANTHONY P. VARDARO, ESQ.

Judges

Before HON. LESTER E. GERARD, Justice, and a Jury

Proceedings

1 2

[2]Dr. George Vincent DiGiacinto,

[3]425 West 59th Street, New York, New York

[4]10019, called as a witness in behalf of the

[5]defendant, having been duly sworn,

[6]testified as follows:

[7]DIRECT EXAMINATION

[8]BY MR. VARDARO:

[9]Q. Good [*2] morning, doctor.

[10]A. Good morning.

[11]Q. Doctor, are you a physician duly licensed

[12]to practice medicine in the State of New York?

[13]A. Yes, I am.

[14]Q. What year were you licensed, doctor?

[15]A. 1974.

[16]Q. And doctor, could you tell us a little bit

[17]about your background starting with the medical school

[18]you attended and the year you graduated?

[19]A. I attended the Harvard Medical School and

[20]graduated in 1970. From 1970 to 1972 I was a general

[21]surgery house officer at the Roosevelt Hospital in New

[22]York City. From 1972 to '74 I was a medical officer in

[23]the United States Navy. And starting in July of 1974

[24]and ending in June of 1978 I completed a neurosurgical

[25]residency at Columbia Presbyterian Medical Center in

[1]3

[2]New York City.

[3]Q. And doctor, after completion of your

[4]residency did you enter into private practice?

[5]A. Yes. As soon as I completed my residency I

[6]started in private practice.

[7]Q. Doctor, are you board certified?

[8]A. Yes, I am.

[9]Q. And in what specialty?

[10]A. In neurosurgery.

[11]Q. Doctor, tell us a little bit about [*3] the

[12]practice of neurosurgery.

[13]A. Neurosurgery involves the evaluation of and

[14]treatment of processes involving the brain, the spinal

[15]cord and the nerves. We're asked to diagnose an

[16]alteration in function and diagnose the presence of

[17]abnormalities which may or may not but which very often

[18]will be treated by an operation to correct the

[19]abnormality.

[20]Q. And doctor, do you have hospital

[21]affiliations?

[22]A. Yes, I do.

[23]Q. Could you tell us about them, sir?

[24]A. I'm affiliated with the St. Luke's

[25]Roosevelt Hospital Center in New York City where I am

[1]4

[2]the director of neurosurgery. I am an attending

[3]neurosurgeon at Harlem Hospital Center and at Beth

[4]Israel North Medical Center and I am an instructor in

[5]neurosurgery at Columbia Presbyterian Medical Center.

[6]Q. Doctor, with respect to your duties as

[7]director of neurosurgery, could you tell us a little

[8]bit about that at St. Luke's Hospital?

[9]A. Yes. I am obligated to basically run the

[10]division of neurosurgery, which means scheduling, being

[11]aware of and overseeing all neurosurgical cases that

[12]are done either **[*4]** by myself or any of the other attending

[13]neurosurgeons. I am involved in training the general

[14]surgery residents which -- excuse me, who rotate on the

[15]neurosurgery service.

[16]Q. Doctor, have you authored any articles or

[17]texts?

[18]A. Yes, I have.

[19]Q. Could you tell us about them, sir?

[20]A. Excuse me?

[21]Q. Could you tell us about them?

[22]A. I have authored approximately 15 or 20

[23]articles dealing primarily with the treatment of spine

[24]tumors and spine stabilization.

[25]Q. Doctor, did there come a time when you were

[1]5

[2]asked by my office to review certain materials

[3]pertaining to this case?

[4]A. Yes, sir.

[5]Q. Okay. And doctor, what materials were you

[6]asked to review?

[7]A. I was asked to review the Huntington

[8]Hospital medical record, the depositions or examination

[9]before trial I guess they're called of the plaintiff

[10]and of the defendant.

[11]Q. And included in the hospital chart, doctor,

[12]was the autopsy report there?

[13]A. That's correct.

[14]Q. Okay. And doctor, have you testified

[15]before?

[16]A. Yes, I have.

[17]Q. Approximately [*5] how many times?

[18]A. Approximately a dozen times.

[19]Q. Okay. Over what period of time, doctor?

[20]A. 10 years, mostly over the last five years.

[21]Q. Okay. And doctor, is this the first time

[22]that you were contacted by my office and you have

[23]testified for either my office or me in particular?

[24]A. That is correct.

[25]Q. Okay.

[1]6

[2]A. It is.

[3]Q. Doctor, before today did you and I meet and

[4]discuss this case?

[5]A. Yes, we did.

[6]Q. On how many occasions?

[7]A. Two occasions before today.

[8]Q. Okay. And doctor, are you being

[9]compensated for your review of the materials that we

[10]sent you and for the time spent today in court away

[11]from your practice?

[12]A. Yes, sir.

[13]Q. Doctor, in the course of your practice have

[14]you had occasions to treat patients with back problems?

[15]A. Yes, sir.

[16]Q. And have you also had occasions to treat

[17]patients with herniated disks?

[18]A. Yes, sir.

[19]MR. VARDARO: Your honor, we've

[20]premarked an exhibit. Could I have the

[21]doctor come down here and discuss the

[22]exhibit with the jury?

[23] **[*6]** THE COURT: Go ahead, doctor.

[24]Q. Doctor, could you step down?

[25]THE COURT: How did you mark that one?

[1]7

[2]MR. VARDARO: Defendant's A.

[3]Q. Doctor, looking at Defendant's A, could you

[4]describe the anatomy of the lumbosacral spine?

[5]A. We are given one, two, three, four, five

[6]views of various parts of the so-called lumbar spine

[7]and sacrum. The lumbar spine consists of normally five

[8]bones called lumbar vertebrae, L1, two, three, four and

[9]five. The last movement segment is between the L5

[10]vertebra and the lowest normally solid bone called the

[11]sacrum. So this is the lumbar spine, this is the

[12]sacrum.

[13]Each individual lumbar vertebra has a

[14]so-called vertebral body and then so-called posterior

[15]elements, spinous process. And inside each vertebra is

[16]a hole where the nerve roots run. Between each set of

[17]vertebrae lies a so-called lumbar disk. And exiting

[18]between each set of vertebrae is a nerve root that goes

[19]out and then forms a nerve that goes down to the leg.

[20]I'm not sure how much more. I could keep going. We

[21]could go on for a long time.

[22]Q. Doctor, as long as you [*7] are describing the

[23]disk in this particular case, diagnosed by Dr. Leivy

[24]was L3-4. Could you describe that, please?

[25]A. I numbered the lumbar vertebrae and they

[1]8

[2]are labeled here for us, so that the disk lying between

[3]the third lumbar vertebra and the fourth lumbar

[4]vertebra is the one involved. The somewhat more blown

[5]up picture on your right exhibits specifically the L3-4

[6]disk as labeled, and that helps us because it labels

[7]the L4 nerve root, which is passing by the disk at L3-4

[8]and the L3 nerve root that's exiting just at the level

[9]of the disk at L3-4.

[10]Q. Doctor, when you have a herniated disk can

[11]you have compression upon one or several of the nerve

[12]roots?

[13]A. Yes, you can, sir.

[14]Q. In this particular case, doctor, in your

[15]review of the records, did we have a herniated disk?

[16]A. Yes, sir.

[17]Q. Okay. And was there compression of the

[18]nerve roots?

[19]A. Yes, sir.

[20]Q. Would you describe which nerve roots were

[21]involved, doctor?

[22]A. The area involved was between the third and

[23]the fourth lumbar vertebrae. As I mentioned, the L4

[24]nerve root **[*8]** is passing by the disk before it exits out

[25]to the leg one level lower. A disk herniation

[1]9

[2]anteriorly into the spinal canal will compress the L4

[3]root. It will also compress the L3 root which is lying

[4]a little bit more lateral and passing out again to form

[5]one of the legs that goes down to the -- one of the

[6]nerves that goes down to the legs. Therefore, an

[7]anterior and lateral herniation into the anterior

[8]portion of the spinal canal will compress the L4 and

[9]the L3 nerve roots. And that's specifically what we're

[10]talking about today.

[11]Q. Now doctor, with compression of the nerve

[12]root, L3-L4, can you have severe pain?

[13]A. Yes, sir.

[14]Q. Doctor, with compression of L3 and L4 as

[15]you have shown us on that diagram, can that pain

[16]radiate?

[17]A. Yes, sir.

[18]Q. And when we talk about radiation, what is

[19]radiation?

[20]A. The term we use in this setting is a lumbar

[21]radiculopathy. The radiculopathy means that a nerve

[22]root has pressure on it and that pressure causes pain

[23]to radiate, radiculate, I'm not sure exactly how they

[24]translate the word, so that it causes discomfort in [*9] the

[25]leg and it causes discomfort in the leg in a pattern

[1]10

[2]more or less related to which nerve roots are

[3]compressed. So therefore lumbar radiculopathy is an

[4]indicator, a very strong indicator of a nerve or nerve

[5]roots that are being irritated by a herniated disk.

[6]Q. Doctor, beside pain, on the question of

[7]pain, in your opinion, doctor, is that pain constant or

[8]does it vary?

[9]A. The pain in lumbar disk disease

[10]characteristically varies up and down from minute to

[11]minute, hour to hour, day to day, depending on how much

[12]irritation there is of the nerve root, with it being

[13]constantly pressed on, whether it's just been touched,

[14]whether a change in position allows a little relief of

[15]that nerve root compression. So the simple answer is

[16]it does vary very frequently.

[17]Q. Doctor, with a herniated disk, nerve root

[18]compression, does it radiate down to certain portions

[19]of the leg which are indicated in the chart which we

[20]call dermatomes?

[21]A. As I mentioned, each nerve root has a

[22]pattern of radiation of changes in a senseation, pain,

[23]numbness. It's never a hundred percent reliable, [*10] that

[24]you can't always say exactly one point is always going

[25]to reflect one nerve root, but there are so-called

[1]11

[2]dermatomal areas, patterns of numbness that you would

[3]most commonly expect with a given nerve root, yes.

[4]Q. Doctor, have you completed with this?

[5]A. I think so, yes.

[6]Q. Doctor, I would like to show you what has

[7]been marked --

[8]MR. VARDARO: Premarked, your honor,

[9]Defendant's B.

[10]MR. HESS: Your honor, can I stand

[11]over there? Because I can't see.

[12]THE COURT: Go ahead.

[13]MR. HESS: Thank you.

[14]Q. This is a little smaller, doctor. Maybe

[15]you can move up. What is this diagram, doctor?

[16]A. This is a diagram that's meant to

[17]demonstrate -- I'm talking about this portion up here,

[18]the so-called dermatomal patterns. It's a guide to

[19]tell us where a specific nerve root most commonly will

[20]show changes in a senseation or in radiation of pain or

[21]in numbness. It's a guide rather than a very strict,

[22]strict indicator, though.

[23]Q. Okay. When you say, "a guide," doctor, on

[24]that chart could you show us where a herniated disk

[25]with nerve root [*11] compression of L3 and L4, nerve root

[1]12

[2]L3-L4, would generally be?

[3]A. The two grayed areas which we see here are

[4]labeled L3 and L4. They fairly well correspond to the

[5]area that usually is involved. And if I described it

[6]anatomically it would be the anterior thigh running

[7]around to the medial thigh and running down the leg

[8]usually just to about the level of the knee. Again,

[9]dermatomal patterns vary a great deal. The pain may be

[10]somewhat higher, the pain may actually be somewhat

[11]lower. But this does act as a general guide of the

[12]area where most of the sensory changes, either pain

[13]and/or numbness, might be noticed in a patient.

[14]Q. So I understand, doctor, when you say,

[15]"generally," can there be an overlapping of the

[16]dermatomes from one lumbar area to another?

[17]A. There essentially always is an overlapping,

[18]so that what this diagram tries to do is show you the

[19]area that's most commonly, most exclusively served by

[20]in this case the L3 nerve root. But we know from

[21]stimulation of nerve studies and we know from cutting

[22]of nerve studies that the area of change in sensation

[23]is much **[*12]** broader, so that the L3 change is, if we could

[24]make L3 red and L4 blue, there would be a lot of

[25]overlap between L3 and L4 so that L4 would extend up to

[1]13

[2]the area labeled L3 and vice versa.

[3]By the same token, the L3 area very much

[4]overlaps into the next level up, the L2 area, which is

[5]labeled on the other side, so that whenever you're'

[6]talking about one nerve root and trying to draw a

[7]dermatome you're underestimating the overall area

[8]that's covered by the particular nerve root.

[9]Q. Doctor, in the hospital chart is a

[10]consultation by a Dr. Brown, and are you familiar with

[11]his consultation report?

[12]A. Yes, I am, sir.

[13]Q. Doctor, let me read you right out of the

[14]report, and it's page 11, for the record, your honor,

[15]and paragraph number four, the very last sentence in

[16]paragraph number four. Doctor, quote, he says he has

[17]so much pain on the inside of his right thigh that just

[18]touching it bothered him. Doctor, is that consistent

[19]with a herniated disk and nerve root compression of L3

[20]and four?

[21]A. Yes, it is, sir.

[22]Q. Could you explain that, please?

[23]A. **[*13]** I think we have pretty much explained that

[24]already. If I make the same circle I was making around

[25]L3 and L4, I'm covering the area of the anterior and

[1]14

[2]inner thigh. So I think that's the best way to answer

[3]your question.

[4]Q. Okay. Now doctor, also within the hospital

[5]chart Dr. Leivy noted that there was slight atrophy of

[6]the right quadriceps. Now first off, doctor, using

[7]that chart, could you tell us first off what are the

[8]quadriceps?

[9]A. It's a group of muscles that run from about

[10]here down to the knee. It's the muscles in front of

[11]the thigh. It's the muscle that straightens the leg.

[12]It's the muscle that serves this so-called patella or

[13]knee jerk reflex, and it's the muscle that's innervated

[14]primarily by the L4 nerve root, to a lesser extent the

[15]L3 nerve root.

[16]Q. And I don't know if we explained atrophy.

[17]What is that?

[18]A. Atrophy means that the muscle that is

[19]shrunken down, it's gotten smaller than it normally

[20]should be.

[21]Q. Okay. Is atrophy consistent with a

[22]herniated disk at L3-4?

[23]A. Again, it's consistent with the nerve going

[24]to the muscle [*14] not working properly and the muscle

[25]losing some of its bulk.

[1]15

[2]Q. Is atrophy or the loss of bulk, is that

[3]consistent with a diagnosis of a deep venous

[4]thrombosis?

[5]A. It would be unrelated and it would look the

[6]opposite. If there were clinical evidence it would not

[7]show atrophy of the muscle or atrophy or thinning out

[8]of the leg at all.

[9]Q. Thank you, doctor. I'll take that out of

[10]the way. Will you take the stand.

[11]Doctor, when a patient presents with

[12]symptoms of a herniated disk, a nerve root compression,

[13]what forms of treatment were available back in 19 --

[14]and all my questions by the way refer back to 1986,

[15]July of 1986. What forms of treatment were available

[16]for the symptoms of a herniated disk with nerve root

[17]compression?

[18]A. The treatments that were most commonly

[19]utilized at that time were bedrest, pelvic traction,

[20]pain medications, anti-inflammation medications and

[21]surgery.

[22]Q. Now doctor, pelvic traction, that was

[23]utilized in this case, true?

[24]A. Yes, sir.

[25]Q. Okay. Could you describe pelvic traction

[1]16

[2]for us, sir?

[3] [*15] A. The patient is lying in the bed in a

[4]comfortable position, either flat or with pillows,

[5]depending on how he feels best. A canvas band that's

[6]attached either with straps, with Velcro is put around

[7]the pelvis bone and it's attached to a rope on either

[8]side running down along the legs. The rope's hung over

[9]the end of the bed and by a pulley system weights are

[10]put on it to pull on that whole construct to try to put

[11]traction on the pelvis and therefore pull the bones

[12]back apart a little bit.

[13]Q. Doctor, would with pelvic traction are the

[14]legs immobilized?

[15]A. No, sir.

[16]Q. And is the patient free to move his legs?

[17]A. Yes, sir.

[18]Q. What if anything is the significance of a

[19]patient at bedrest with the ability to move his legs?

[20]A. I'm not exactly sure what you mean. The

[21]patient in pelvic traction for a herniated disk is

[22]attempting to relieve some of his pain. He will be

[23]immobilized in the sense that he's kept in bed. He

[24]won't be immobilized in the sense of being able to move

[25]around in bed. Very characteristically the patient

[1]17

[2]who's in bed with an irritated nerve **[*16]** root will find a

[3]comfortable position and find a few minutes or a half

[4]an hour later that he's not comfortable in that

[5]position anymore and he'll change position. The

[6]advantage of the pelvic traction is that he's free to

[7]move around as much as he needs to and yet the pull on

[8]the spine, which is designed to help relieve the pain,

[9]is consistent even if he is turning from side to side,

[10]wiggling on his back and just constantly changing

[11]position.

[12]Q. Doctor, are you familiar with the -- let's

[13]say from the standpoint of the mechanism with respect

[14]to the legs and utilizing muscles to move the blood,

[15]could you describe that for us?

[16]A. Well, every time a muscle contracts, every

[17]time you wiggle or turn, you're causing the muscles to

[18]contract down and that allows the muscle to go through

[19]a normal range of motion and it also allows the blood

[20]in the legs to be assisted in returning to the heart.

[21]Q. And doctor, a patient at bedrest, pelvic

[22]traction, legs are not immobilized, is he at high risk

[23]for a thrombus?

[24]A. Not at high risk, no.

[25]Q. Doctor, a patient, and all my questions

[1] [*17]

[2]again, I know I referred to 1986, a patient at bedrest

[3]with traction, do you automatically, based on the

[4]traction and bedrest, consider coagulation therapy for

[5]such a patient?

[6]A. No, sir.

[7]Q. Doctor, in looking at the hospital chart --

[8]MR. VARDARO: Your honor, can the

[9]doctor have Plaintiff's Exhibit I believe

[10]it's one?

[11]A. Okay.

[12]Q. Doctor, we have had testimony concerning

[13]some of the injuries within the hospital chart. But

[14]I'll ask you to assume that on admission the patient

[15]had severe back pain. I ask you to further assume that

[16]Dr. Leivy saw the patient later on on the day of

[17]admission, July the 18th, sometime in the morning, and

[18]his note indicates bad night, now a little better.

[19]Further assume, doctor, that you have nurses' notes

[20]with respect to pain, at 6:30 A.M., complains of pain.

[21]Refused pain medication. Wants traction. No relief of

[22]pain thus far. At 12 P.M., the same day, July 18,

[23]complains of pain right hip and leg when moved. And

[24]the last entry we have, doctor, at 7:30 P.M., Dr. Brown

[25]visited. Appetite fair. Voiding. No complaints of

[1]19

[2] [*18] pain at present.

[3]My question is, doctor, in your opinion,

[4]those entries, is that consistent with a diagnosis of a

[5]herniated disk with nerve root compression?

[6]A. Yes, it is, sir.

[7]Q. Would you tell us why?

[8]A. Well, I think what you've outlined is a

[9]patient with pain that seems to be fluctuating, it's

[10]bad at times, sometimes he's not requiring pain

[11]medicine. He's reported by at least one observer to be

[12]pain free. And again very characteristically the

[13]irritation of the nerve root can be intermittent in the

[14]sense that the pain may sometimes be very severe and

[15]then with change in position, adjusting himself, the

[16]pain will be very minimal and then come back again.

[17]And I think that's the sequence that we have outlined

[18]here.

[19]Q. After the 18th, doctor, on July 19 and July

[20]20 the patient continued to complain of pain, is that

[21]correct?

[22]A. Yes, sir.

[23]Q. Okay. And doctor, in any of the notes by

[24]Dr. Leivy or the nurses was there any complaint of

[25]thigh pain?

[1]20

[2]A. I did not see any entry indicating that,

[3]sir.

[4]Q. Now doctor, on July the 21st [*19] Dr. Leivy has

[5]an entry in his progress note for July 21, and I'll

[6]read. Pain may be subsiding. Will add PT. Is that

[7]physical therapy, doctor?

[8]A. Yes, sir.

[9]Q. Okay. Doctor, what if anything is the

[10]purpose of physical therapy?

[11]A. One of the forms of treatment, which I

[12]actually think I failed to mentioned in answer to an

[13]earlier question, is therapy to try to alleviate some

[14]of the results of nerve root irritation. Therapy is

[15]designed to stretch muscles, to exercise them, to offer

[16]massage, to offer deep heat, all modalities which will

[17]allow a patient who's getting more comfortable to begin

[18]to progress toward moving, toward getting up, toward

[19]moving around. So it's part of the therapy for

[20]so-called nonsurgical treatment of herniated lumbar

[21]disk disease.

[22]Q. And doctor, we have had testimony here that

[23]the patient later on on the 21st of July was taken to

[24]physical therapy, and, for the purpose, we have read it

[25]several times. Allow me to read it, doctor. Reading

[1]21

[2]from page 18, for the record, the entry of July 21,

[3]1986, physical therapy treatment record. Patient in

[4] **[*20]** extreme pain, especially upon movement. Inner groin

[5]very sore, lumbosacral area as well. Moist heat,

[6]massages. Patient unable to tolerate prone or

[7]side-lying for more than a few minutes at a time.

[8]Patient in excruciating pain. Now doctor, what if

[9]anything in your opinion is the significance of that

[10]note?

[11]A. I think the findings and the description

[12]there goes along very well with what I mentioned

[13]earlier. The patient with irritated nerve root from a

[14]herniated disk will try to find a position that's

[15]comfortable. Here he's been taken down to

[16] physiotherapy, he's been turned on his side, he's been
[17] turned I think they say prone or on his stomach, and
[18] those changes in position are causing further
[19] irritation of the nerve root and causing him a marked
[20] worsening or exacerbation of his pain because the nerve
[21] root is being banged on as he's being moved around.

[22] Q. Now doctor, looking at physical therapy,
[23] the last notation on July the 21st I believe, we have
[24] the nurse's note on the three to 11 shift?
[25] A. Do you have a page, sir?

[1] 25
[2] Q. Doctor, are patients who are postsurgical,
[3] [*21] are they at high risk?
[4] A. Certain types of surgery do make patients
[5] more prone to emboli and thrombus formation. Brain
[6] surgery is associated with thrombus formation. Casting
[7] of an extremity is associated with thrombus formation,
[8] among other things.

[9] Q. Doctor, any other types of surgery, for
[10] example, hip and knee surgery?
[11] MR. HESS: Objection to the leading.

[12] A. I'm sorry, any --

[13] THE COURT: Sustained as to form.

[14] A. I'm sorry.

[15] Q. Any others, doctor?

[16] A. Any surgery that will involve an extremity,
[17] bone surgery, pinning of the hip, casting of a
[18] fracture, that general area. I'm sorry if I didn't
[19] include everything.

[20] Q. Doctor, what are the signs and symptoms of

[21]a thrombus?

[22]A. Swelling, redness, heat and complaints of

[23]pain are the most commonly noted signs and symptoms.

[24]Q. Doctor, if you'd refer to page nine of the

[25]hospital chart, the physical examination, admitting

[1]26

[2]physical examination of Dr. Leivy. Doctor, does it

[3]indicate there that Dr. Leivy did a straight leg test?

[4]A. Yes, sir, it does.

[5]Q. And did he also **[*22]** check for some of the

[6]reflexes?

[7]A. He mentions the right knee jerk decreased

[8]compared to the left, so -- right hamstring is absent,

[9]so he did check for at least those two reflexes, yes.

[10]Q. Doctor, as a neurosurgeon you are familiar

[11]with those tests?

[12]A. Yes, sir.

[13]Q. You have performed them yourself?

[14]A. Yes, sir.

[15]Q. Doctor, when you perform those tests do you

[16]have to touch the patient, palpate the patient?

[17]A. Yes, sir.

[18]Q. Okay. And while you are palpating the

[19]patient are you observing the patient?

[20]A. Yes, sir.

[21]Q. And doctor, in any of the examinations that

[22]Dr. Leivy performed did he note any swelling or redness

[23]or heat?

[24]A. No, there's none mentioned, sir.

[25]Q. Doctor, when Dr. Leivy examined, one of the

[1]27

[2]areas that he noted in his examination was extremities?

[3]A. Yes.

[4]Q. What did he write there, sir?

[5]A. He noted no edema, which means no swelling.

[6]Q. Okay. Doctor, by the way, from the

[7]hospital chart, did Dr. Leivy see the patient every

[8]day?

[9]A. My recollection is that he did. **[*23]** I believe

[10]so.

[11]Q. We had testimony that Dr. Leivy examined

[12]Mr. Isaacson each and every visit that he made while he

[13]was in the hospital. Doctor, in your review of the

[14]hospital chart is there any notation by Dr. Leivy of

[15]any swelling of the extremities?

[16]A. Not to my recollection.

[17]Q. Doctor, you reviewed the consultation of

[18]Dr. Brown?

[19]A. Yes, sir.

[20]Q. And did Dr. Brown also perform a straight

[21]leg raising test as well as testing for the ankle and

[22]knee reflexes?

[23]A. Yes, sir.

[24]Q. Okay. And doctor, would that be something

[25]that an orthopedic doctor would do in the same manner

[1]28

[2]that a neurosurgeon would perform?

[3]A. Very much in the same manner, yes.

[4]Q. Did Dr. Brown record any swelling of any of

[5]the extremities?

[6]A. Not that I noticed.

[7]Q. And doctor, you reviewed all of the nurses'

[8]notes for the entire admission. Was there any notation

[9]by any of the nurses, any of the shifts, that recorded

[10]any swelling of any of the extremities?

[11]A. Not that I noticed, sir.

[12]Q. By the way, doctor, none of the nurses

[13]also, would **[*24]** I be correct, reported any redness or heat?

[14]A. No, sir.

[15]Q. Okay. Now doctor, with respect to pain,

[16]when you have a thrombus and before it breaks free,

[17]becomes an embolus, does it grow larger?

[18]A. That's the natural history of such an

[19]event, yes.

[20]Q. And doctor, would it be true that a

[21]thrombus, once it begins, whether it be in the

[22]superficial or the deep veins of the leg, would that be

[23]true, that once it begins, before it breaks free it

[24]would grow larger?

[25]A. Again, that would be the natural history of

[1]29

[2]such an event, yes.

[3]Q. If a patient reported pain related to a

[4]thrombus within the leg would you expect that pain to

[5]continue?

[6]A. The impetus for the pain is very constant

[7]there and it would be a continuous pain, yes.

[8]Q. And doctor, a thrombus within any of the

[9]veins within the leg, as it grows larger and a patient

[10]were to complain of pain related to the thrombus, would

[11]you expect that pain not only to continue but perhaps

[12]to progress and get worse?

[13]A. I would suspect it would, yes.

[14]Q. Doctor, in your opinion if a patient

[15] [*25] experiences pain from a deep venous thrombus, would

[16]that pain also exist at bedrest?

[17]A. Characteristically it does exist at

[18]bedrest, yes.

[19]Q. Would you explain why?

[20]A. I think I mentioned a moment ago the cause

[21]of the pain is constant, the thrombus doesn't move and

[22]go. It's sitting in the vein and causing its symptoms

[23]rather consistently, as in contradistinction to what we

[24]have talked about with the nerve root being irritated

[25]and then being less irritated. In this case it's

[1]30

[2]always there and it's always going to be the same

[3]stimulation for pain.

[4]Q. Doctor, I wonder if you could turn to, I

[5]believe it's page 34, the autopsy report. Do you have

[6]that, sir?

[7]A. Yes, I do, sir.

[8]Q. Now doctor, did the pathologist, based on

[9]his examination, did he confirm a herniated disk at

[10]L3-4?

[11]A. Yes, he did.

[12]Q. And doctor, I believe the pathologist also

[13]wrote that there was lumbar disk degeneration with the

[14]herniation?

[15]A. Yes, sir.

[16]Q. Could you explain, what is lumbar disk

[17]degeneration?

[18]A. As a disk undergoes stresses and wear [*26] and

[19]tear it changes its chemistry and specifically it loses

[20]water and it becomes what we call dried out, desiccated

[21]or degenerated. Those are more or less interchangeable

[22]terms. So that when he describes disk degeneration it

[23]means that it's a disk that isn't firm and solid, it's

[24]rather fibrous. Some people describe it as crab meat.

[25]When you pull it out, it shreds very much. A normal

[1]31

[2]disk is a very tough structure, you can't pull it out,

[3]it holds very well to itself. So he's describing a

[4]disk that's chemically changed its water content and

[5]physically it's just easier to pull apart or more

[6]friable is the term we use.

[7]Q. Doctor, based on the autopsy report

[8]indicating a herniated lumbar disk with lumbar disk

[9]degeneration, is that consistent with the pain and

[10]radiation of pain that was experienced by the patient

[11]in this case?

[12]A. Yes, it is, sir.

[13]Q. Okay. Now doctor, would you look at page

[14]36 of the autopsy report. And there's writing on the

[15]entire page, doctor. I wonder if I could -- I'll refer

[16]you to the fourth paragraph, and it's the third line

[17]down. I'll read that [*27] portion. The cut surfaces of the

[18]lung showed large proximal pulmonary emboli which

[19]measured up to 10 centimeters by 1.5 centimeters when

[20]uncoiled and six centimeters by one centimeter. Now

[21]doctor, before this embolus lodged in the lungs was

[22]this one thrombus?

[23]A. Most probably, yes.

[24]Q. And how would you characterize the size

[25]reported by the pathologist?

[1]32

[2]A. I think I'd call it very large. I can't do

[3]better than that.

[4]Q. Doctor, back in 1986 was pulmonary embolism

[5]one of the leading causes of death in the United

[6]States?

[7]A. Yes, it was, sir.

[8]Q. And doctor, are you familiar with the term

[9]silent pulmonary embolism?

[10]A. Yes, sir.

[11]Q. Could you explain that to us, please?

[12]A. A silent pulmonary embolus, the terminology

[13]means that there is no indication in the patient that

[14]he has a thrombus and it only presents once the

[15]thrombus has released and become a pulmonary embolus

[16]and gone up to the lung. So it's silent until it

[17]causes the problem in the lung itself.

[18]Q. When you say, "silent," doctor, am I clear

[19]that a thrombus forms, [*28] breaks away, becomes an embolus,

[20]lodges in either the heart or the lungs and this occurs

[21]without any sign or symptom?

[22]A. It occurs with -- if you look at the

[23]patient until he becomes symptomatic from the embolus,

[24]there's no way of knowing that it was there.

[25]Q. Okay. When you say, "symptomatic from the

[1]33

[2]embolus," could you describe what symptoms would be

[3]present when the thrombus breaks free and becomes an

[4]embolism?

[5]A. Depending on how large it is and where it

[6]goes and referring to this situation, it would

[7]anatomically cause a decrease in the flow of blood back

[8]to the heart, the patient would become faint,

[9]diaphoretic, trouble breathing and pass out very

[10]quickly with a large embolus.

[11]Q. Is that similar to the events that occurred

[12]in this particular case, doctor?

[13]A. Yes, sir, those are exactly.

[14]Q. Doctor, to your knowledge what percentage

[15]of pulmonary embolisms develop without signs or

[16]symptoms?

[17]A. Around 50 or 60 percent of those.

[18]Q. And doctor, in the absence of signs or

[19]symptoms of a deep venous thrombus is that a difficult

[20]diagnosis? **[*29]**

[21]A. Incredibly difficult.

[22]Q. Doctor, on the autopsy that you reviewed is

[23]the pathologist able to determine the site where the

[24]thrombus originated?

[25]MR. HESS: Objection. He's calling

[1]34

[2]for his opinion, what the opinion of the --

[3]or the state of mind of the pathologist. I

[4]don't mind if the question is rephrased as

[5]to whether there is anything in the autopsy

[6]report that indicates where it came from.

[7]THE COURT: Yes, sustained as to form.

[8]MR. VARDARO: I'll withdraw that, your

[9]honor. In fact, I'll adopt Mr. Hess's

[10]question.

[11]Q. Doctor, in the pathology report is there

[12]any indication by the pathologist as to where, at what

[13]site the thrombus, which eventually traveled, lodged in

[14]the pulmonary lungs, anything in there that indicates

[15]where the thrombus originated?

[16]A. No, there is not, sir.

[17]Q. Doctor, one of the things that -- did you

[18]also review the death certificate in this case?

[19]A. Yes, I did, sir.

[20]MR. VARDARO: Your honor, that's

[21]Plaintiff's Exhibit No. 12. Could the

[22]doctor have that? And I think there's 12A,

[23]which is the blowup. **[*30]**

[24]THE COURT: Show the doctor the death

[25]certificate.

[1]35

[2]MR. VARDARO: Can I have the blowup?

[3]THE COURT: You want the enlargement?

[4]MR. VARDARO: Yes. Just a few

[5]questions, if I may.

[6]Q. Now doctor, you are familiar with death

[7]certificates?

[8]A. Yes, sir.

[9]Q. And by the way, this was completed by Dr.

[10]Leivy, isn't that true?

[11]A. I believe it was, yes.

[12]Q. Okay. And I can't make out the date,

[13]doctor, off of the copy, but it looks like July 28 of

[14]1986. But in any event, doctor, this was completed by

[15]Dr. Leivy after the autopsy was known, would that be

[16]fair to say?

[17]A. I believe that is true, yes.

[18]Q. Okay. Now doctor, prior to the autopsy

[19]were any of the preexisting conditions which you have

[20]discussed with us, as far as that placing a patient at

[21]a high risk for a thrombus, any of those preexisting

[22]conditions present in this case?

[23]A. No, sir.

[24]Q. Okay. And doctor, any of the surgical

[25]conditions that you mentioned and with respect to

[1]36

[2]immobilization of the extremities, any of those

[3]surgical conditions for the [*31] hip, abdominal, knee, were

[4]they present in this case?

[5]A. No, sir.

[6]Q. Okay. Doctor, in your opinion was it

[7]reasonable, based on the autopsy report, in the absence

[8]of any of those preexisting or high risk conditions,

[9]was it reasonable for Dr. Leivy to place not only the

[10]cause of death, pulmonary embolism, but that bedrest

[11]for a herniated disk contributed?

[12]MR. HESS: Objection to that question.

[13]Was it reasonable for Dr. Leivy to put it

[14]down? Dr. Leivy put it down. He's calling

[15]for the state -- his opinion --

[16]THE COURT: The state of someone

[17]else's mind. Sustained.

[18]Q. Let me ask this, doctor: None of the

[19]preeexisting or the usual high risk conditions were

[20]present in this patient, correct?

[21]A. No, they were not.

[22]Q. Doctor, do you agree with Dr. Leivy that

[23]bedrest might have contributed to the pulmonary

[24]embolism?

[25]MR. HESS: Objection.

[1]37

[2]THE COURT: What's the objection? So

[3]far as agreeing with his opinion?

[4]MR. HESS: Firstly, he's misquoting.

[5]It doesn't say might have contributed. The

[6]statement, it's a certified record, it [*32] says

[7]that the pulmonary embolism is due to or as

[8]a consequence of bedrest for herniated

[9]disk. So might have contributed is not

[10]what's in that document.

[11]MR. VARDARO: I think we had testimony

[12]from Dr. Leivy, and his testimony was may

[13]have contributed.

[14]THE COURT: Well, without concern for

[15]Dr. Leivy's opinion, you want to ask this

[16]doctor his opinion?

[17]Q. One other thing, doctor. You have had

[18]experience in not only reviewing death certificates but

[19]also completing them?

[20]A. Yes, sir.

[21]Q. Okay. Doctor, in a general way, just a

[22]general proposition, if you had a patient operated on

[23]for a subdural hematoma and his demise was brought

[24]about by an unrelated cardiopulmonary arrest, would the

[25]cause of death be cardiopulmonary arrest?

[1]38

[2]MR. HESS: Objection.

[3]THE COURT: Sustained.

[4]Q. Doctor, is it customary for the physician

[5]who completes the death certificate to not only place

[6]the cause of death but what preceded the cause of

[7]death?

[8]MR. HESS: Objection.

[9]THE COURT: As to custom and practice

[10]with regard to filling out death

[11] [*33] certificates?

[12]MR. HESS: I don't see what that has

[13]to do with this case. We're talking about

[14]this death certificate where Dr. Leivy

[15]admitted that's what he filled out as a

[16]consequence of this man's death. So I just

[17]don't see what other doctors do with other

[18]things. The question is what Dr. Leivy did

[19]in this case.

[20]THE COURT: Well, custom and practice

[21]might enter into it. Overruled.

[22]Q. You may answer, doctor.

[23]A. Could I have the question again? I'm

[24]sorry.

[25]Q. Yes.

[1]39

[2]THE COURT: Read it back.

[3](Whereupon, the reporter read back as

[4]requested.)

[5]A. Yes, sir.

[6]Q. Doctor, do you have an opinion with a

[7]reasonable degree of medical certainty whether or not

[8]there were any signs or symptoms of a thrombus in this

[9]patient during the hospitalization from July 17 of 1986

[10]through July 22 of 1986?

[11]A. I do have an opinion.

[12]Q. And what is that opinion?

[13]A. That there was no clinical evidence of

[14]thrombus in this patient during that period which was

[15]just mentioned.

[16]Q. Could you discuss with us the basis for

[17]that opinion? [*34]

[18]A. The hospital record talks of a patient with

[19]a herniated lumbar disk causing nerve root compression.

[20]His entire course and all of his complaints and

[21]clinical findings are very well explained by that disk

[22]which was subsequently well demonstrated on the

[23]postmortem examination. No other mechanism needs to be

[24]invoked to explain any of those symptoms which he was

[25]suffering from.

[1]43

[2]A. Yes, sir.

[3]Q. And have you testified for a fellow doctor

[4]like you're doing in this case prior to today?

[5]A. Yes, sir.

[6]Q. And of the times that you have testified

[7]how many times have you come into court on behalf of a

[8]fellow doctor?

[9]A. Probably 80 percent of the time. Most of

[10]the time.

[11]Q. And have you ever testified in a medical

[12]malpractice case like this one on behalf of a patient

[13]who was suing a doctor?

[14]A. Yes, sir.

[15]Q. How many times?

[16]A. Two.

[17]Q. Excuse me?

[18]A. Two.

[19]Q. Okay. Now Dr. Leivy, David Leivy is the

[20]defendant in this case. Do you know him?

[21]A. No, sir.

[22]Q. Never met him?

[23]A. We go to meetings. **[*35]** I might have seen him

[24]but I don't think I have ever been introduced to him,

[25]no.

[1]44

[2]Q. Do you know Dr. Hugh Wisoff?

[3]A. I know his name. I don't know him.

[4]Q. Do you know his name because he was the

[5]chairman of neurosurgery at Albert Einstein?

[6]A. I know about him, yes.

[7]Q. When was the first time you were contacted

[8]by anyone from Mr. Vardaro's office concerning this

[9]case?

[10]A. I believe in March of 1994.

[11]Q. And you told us you reviewed the hospital

[12]record, is that correct?

[13]A. Yes, sir.

[14]Q. And you reviewed as part of the hospital

[15]record the autopsy report?

[16]A. Yes, sir.

[17]Q. You read the deposition of Dr. Leivy, is

[18]that correct?

[19]A. Yes, sir.

[20]Q. Now the charts that were presented this

[21]morning, you saw them before you testified, I'd assume,

[22]is that correct?

[23]A. I saw a copy of this, if that's what you

[24]mean, sir. Oh, those.

[25]Q. Let me rephrase the question.

[1]45

[2]A. Yes, sir.

[3]Q. The charts that were the sensory and motor

[4]innervation of lower limbs, you have seen these charts

[5]before? **[*36]**

[6]A. Yes, sir.

[7]Q. Did you bring this with you to court or did

[8]Mr. Vardaro have possession of them?

[9]A. I didn't bring it.

[10]Q. Now you testified with respect to your

[11]review of this hospital record and the autopsy report

[12]that there's no question that Mr. Isaacson, the person

[13]who died, had a herniated disk, is that correct?

[14]A. That is correct.

[15]Q. He had clinical signs of a herniated disk?

[16]A. Yes, sir.

[17]Q. And Dr. Leivy, when he first saw him in the

[18]hospital, Huntington Hospital, made a presumptive

[19]diagnosis that he had a herniated disk at an L3-L4

[20]level, is that correct?

[21]A. Yes, sir.

[22]Q. And that we know was confirmed because the

[23]autopsy also confirmed that there was in fact a

[24]herniation at L3-L4, is that correct?

[25]A. That is correct.

[1]46

[2]Q. So clearly Dr. Leivy in his diagnosis of

[3]the herniated disk was absolutely correct because the

[4]autopsy confirmed it?

[5]A. Yes, sir.

[6]Q. And we also know by the autopsy that Mr.

[7]Isaacson died from a pulmonary embolism that was

[8]described as massive, is that correct?

[9] **[*37]** A. Yes, sir.

[10]Q. And we know that because it's described by

[11]the pathologist as the cause of death?

[12]A. Yes, sir.

[13]Q. Okay. Now in medicine in order to deal

[14]with a pulmonary embolism back in 1986 doctors were

[15]concerned with prevention of pulmonary embolism, is

[16]that correct?

[17]A. Yes, sir.

[18]Q. Because back in 1986 doctors knew that a

[19]pulmonary embolism could result in death as it did in

[20]this case, is that correct?

[21]A. Yes, sir.

[22]Q. And that was nothing that was that exotic.

[23]As a matter of fact, you testified that that was one of

[24]the leading causes of death in 1986?

[25]A. Yes, sir.

[1]47

[2]Q. Now in order to prevent pulmonary embolism

[3]back in 1986 doctors were concerned with the prevention

[4]of deep venous thrombosis, is that correct?

[5]A. Correct.

[6]Q. Because if you prevent a deep venous

[7]thrombosis or the blood clot, then you don't take it

[8]the step further where the blood clot develops into an

[9]embolus, is that correct?

[10]A. That's correct.

[11]Q. So that that was clearly recognized back in

[12]1986, in order to prevent the pulmonary **[*38]** embolism you

[13]have to try to prevent the deep venous thrombosis?

[14]A. Yes, sir.

[15]Q. And if you can't prevent a deep venous

[16]thrombosis, you have to try to diagnose the condition

[17]of deep venous thrombosis so that you can use a

[18]medication in the form of Heparin to help prevent the

[19]blood clot from becoming an embolus, is that correct?

[20]A. Yes, sir.

[21]Q. Okay. And Heparin was available in 1986?

[22]A. Yes, sir.

[23]Q. And Heparin was a medicine that was an

[24]effective medicine to combat deep venous thrombosis?

[25]A. Yes, sir.

[1]48

[2]Q. As a result of the recognition that

[3]pulmonary embolism was a leading cause of death,

[4]doctors would be on the lookout for any signs or

[5]symptoms of deep venous thrombosis?

[6]A. Yes, sir.

[7]Q. That was something that was important to

[8]look out for obviously?

[9]A. I agree.

[10]Q. And not only did doctors look out for signs

[11]and symptoms, they also recognized back in 1986 that at

[12]least 50 percent of the cases where people developed a

[13]pulmonary embolism, that those people didn't have any

[14]signs or symptoms of deep venous thrombosis **[*39]** before they

[15]developed the embolism, is that correct?

[16]A. Yes, sir.

[17]Q. So that doctors knew that more often than

[18]not somebody could throw a pulmonary embolism without

[19]any signs or any symptoms whatsoever?

[20]A. That's correct.

[21]Q. And as a result of that doctors back in

[22]1986 would utilize a high degree of suspicion in

[23]looking for signs and symptoms of what I'll call DVT or

[24]deep venous thrombosis?

[25]A. I'm not sure if I understand the question.

[1]49

[2]I don't know what a high degree of suspicion to look

[3]for means. I think we -- I'm sorry.

[4]Q. I think your comment is fair, so let me

[5]withdraw the question. Back in 1986 doctors would be

[6]on a very careful lookout to see if there were any

[7]signs or symptoms of deep venous thrombosis because

[8]they recognized that if you have a DVT, that could

[9]develop into a pulmonary embolism and you could die?

[10]A. Yes, sir.

[11]Q. Let's just talk about for a moment the

[12]herniated disk. Dr. Leivy diagnosed a herniated disk

[13]and he put Mr. Isaacson in the hospital for additional

[14]bedrest, is that correct?

[15]A. Yes, sir.

[16] **[*40]** Q. When I say, "additional bedrest," Dr. Leivy

[17]was aware that Mr. Isaacson came into the hospital with

[18]a history of two weeks of bedrest?

[19]A. Whatever period of time, yes.

[20]Approximately that.

[21]Q. Well, the hospital --

[22]A. I thought it was 11 days.

[23]Q. Well, from the factual testimony we know

[24]July 7 was the time that Mr. Isaacson hurt his back and

[25]from July 7 basically through July 17 or 18 he was on

[1]50

[2]bedrest, so it's about 11 days?

[3]A. Yes, sir.

[4]Q. All right. But the hospital record in fact

[5]documents a two-week history of bedrest?

[6]A. I don't recall it specifically but I have

[7]no reason to question that, sir.

[8]Q. All right. Assume for the moment that Dr.

[9]Leivy was advised that there was a two-week history of

[10]bedrest. He put Mr. Isaacson in the hospital for

[11]additional bedrest, is that correct?

[12]A. And traction, yes.

[13]Q. All right. But with respect to bedrest it

[14]was additional bedrest, is that correct?

[15]A. Yes, sir.

[16]Q. And you spoke before about immobilization,

[17]and to a certain degree someone at bedrest is

[18]immobilized, [*41] is that correct?

[19]A. To a certain degree, yes.

[20]Q. All right. Clearly you can move your feet,

[21]you can move your knees, you can move your arms, you

[22]can move any part of your body unless you're restrained

[23]or paralyzed, is that correct?

[24]A. Yes, sir.

[25]Q. But back in 1986 someone at bedrest,

[1]51

[2]specifically with a history of two weeks at bedrest,

[3]was at a higher risk for developing deep venous

[4]thrombosis than someone who was not at bedrest, is that

[5]correct?

[6]A. I would agree with that, yes.

[7]Q. You would agree with that?

[8]A. Yes.

[9]Q. All right. Now Mr. Vardaro asked you

[10]questions about high risk patients. And I think I

[11]clearly understood you. You said that people who had a

[12]cancer condition would be a high risk person to develop

[13]a deep venous thrombosis?

[14]A. Yes, sir.

[15]Q. And people who had some sort of vascular

[16]problem in their leg, they would be at a high risk?

[17]A. Yes, sir.

[18]Q. People with congestive heart failure?

[19]A. Yes, sir.

[20]Q. And I think maybe you mentioned somebody

[21]with brain damage --

[22]A. Yes. **[*42]**

[23]Q. -- or disease, they would be at high risk?

[24]A. Yes.

[25]Q. And I suspect people who are paralyzed,

[1]52

[2]they would be at high risk, that can't move an

[3]extremity at all?

[4]A. Yes.

[5]Q. And one of the factors that -- one of the

[6]factors that make someone a high risk is the concept in

[7]medicine of stasis of the blood, is that correct?

[8]A. Yes, sir.

[9]Q. Because although there's a lot of pressure

[10]in the distribution of blood through the arterial

[11]system, that is, from the heart to the rest of the

[12]body, there isn't significant pressure of the return of

[13]that blood to the heart, is that correct?

[14]A. If you say there isn't as much pressure, I

[15]mean, it's significant because it works.

[16]Q. All right. There isn't as much pressure,

[17]it's a much lower pressure system?

[18]A. Yes, sir.

[19]Q. As a matter of fact, the way the system

[20]works, especially with the blood return from the lower

[21]extremities, is that the movement of the muscles kind

[22]of like pumps the blood up through the valves of the

[23]veins back to the heart, is that correct?

[24]A. It assists it, [*43] yes.

[25]Q. So that someone with a history of bedrest

[1]53

[2]is at a higher risk for developing stasis of blood than

[3]someone who is active?

[4]A. That's too general a statement. It

[5]really --

[6]Q. You can't answer that like that? I'll

[7]withdraw the question. I'll ask you another one.

[8]A. I think the answer probably would be no,

[9]because the patient at bedrest is moving around, is

[10]pumping these muscles that you are talking about and so

[11]that any difference would be very small.

[12]Q. Does it matter if a person is at bedrest

[13]for three days or a week or two weeks with respect to

[14]your last answer?

[15]A. That's one of the factors, yes.

[16]Q. If someone is at bedrest for more than a

[17]week, is that person considered a risk, not a high

[18]risk, but a risk factor for developing DVT?

[19]A. I don't know that I am aware that a week is

[20]the cutoff point. I am not aware of any study that

[21]says over a week it's more of a risk than less than a

[22]week. I am not so much disagreeing as not being able

[23]to agree with that statement.

[24]Q. But there is certainly medical literature

[25]on the development [*44] of deep venous thrombosis and the

[1]54

[2]relationship of bedrest and deep venous thrombosis, is

[3]there not?

[4]A. Yes, sir.

[5]Q. Would you agree that factors in the

[6]development of venous stasis, that's the pooling of

[7]blood, are bedrest, long trips, inactivity, would you

[8]agree with that?

[9]A. Those are all contributing factors, yes.

[10]Q. Obesity?

[11]A. I believe that would be. I don't know that

[12]I could answer it with absolute certainty.

[13]Q. And then of course paralysis, congestive

[14]heart failure, cancer?

[15]A. Yes, sir.

[16]Q. Would you agree that there's an association

[17]between bedrest and venous thrombosis for those

[18]patients at bedrest in excess of one week?

[19]A. Again, I can't disagree with that

[20]statement. I'm not familiar with a specific study that

[21]says that.

[22]Q. Are you familiar with studies involving

[23]examination of patients at autopsies concerning the

[24]development of blood clots in the venous system and

[25]bedrest?

[1]55

[2]A. I cannot say that I am, sir, no.

[3]Q. Are you familiar with a textbook called

[4]"Hemostasis and Thrombosis"? [*45] What's hemostasis, by the

[5]way?

[6]A. Stopping bleeding, controlling bleeding.

[7]Q. And thrombosis?

[8]A. Clotting.

[9]Q. Are you familiar with that textbook, the

[10]second edition, specifically, by a Dr. Coleman, Dr.

[11]Hirsch, Dr. Marter and Dr. Saltzman?

[12]A. No, I am not, sir.

[13]Q. Are you aware that there are autopsy

[14]studies where doctors actually look at dead patients

[15]and see the relationship of certain factors, including

[16]bedrest, with the development of deep venous

[17]thrombosis?

[18]MR. VARDARO: I have no objection to

[19]the question, just that if he would put a

[20]date on it so at least we know what we are

[21]talking about, '86, subsequent, prior.

[22]Q. All I'm asking you is everything that was

[23]aware by doctors back in 1986.

[24]MR. VARDARO: No objection, your

[25]honor.

[1]56

[2]Q. That's when Mr. Isaacson died. That's what

[3]we're talking about. So my question is are you aware

[4]of autopsy studies that were performed to determine the

[5]relationship between bedrest and the development of

[6]venous thrombosis?

[7]A. Am I specifically aware of specific

[8]studies? [*46] No, I am not, sir. Do I doubt that they

[9]exist? I don't doubt that they exist.

[10]Q. Doctor, in terms of an increased incidence

[11]of the development of deep venous thrombosis, would you.

[12]agree that long periods of cramped sitting in travel,

[13]such as in an airplane or watching television or in

[14]fact any state involving partial or complete

[15]immobilization-, increases the risk of deep venous

[16]thrombosis?

[17]A. I am aware of that type of information,

[18]yes.

[19]Q. And that type of information was available

[20]back in 1986, is that correct?

[21]A. I'm sure it was.

[22]Q. Doctor, when a patient is put in the

[23]hospital with a particular diagnosis, like Mr. Isaacson

[24]was put into this hospital with a diagnosis of a

[25]herniated disk at L3-L4, the doctor who's in charge of

[1]57

[2]his care doesn't close his eyes to any other things

[3]that are going on with the patient other than that

[4]particular diagnosis, is that correct?

[5]MR. VARDARO: Objection.

[6]THE COURT: Sustained as to form.

[7]Q. Back in 1986 you were a neurosurgeon, is

[8]that correct?

[9]A. Yes, sir.

[10]Q. Did you put patients [*47] in the hospital for

[11]bedrest back in 1986 for a herniated disk?

[12]A. Yes, sir.

[13]Q. And when you put them in the hospital did

[14]you consider the history that they had when they came

[15]into the hospital, that is, whether they were on

[16]bedrest or not on bedrest?

[17]A. Yes, sir.

[18]Q. Why would you consider that history of

[19]being on bedrest or not being on bedrest?

[20]A. It would impact to some degree on how much

[21]longer I would keep the patient on bedrest before going

[22]to the next step in terms of treatment or diagnosis.

[23]Q. Would it impact to you back in 1986 if a

[24]person was on bedrest for approximately two weeks,

[25]would you have any concern about the development of

[1]58

[2]deep venous thrombosis?

[3]A. I would always have a concern about that,

[4]so I would answer yes.

[5]Q. As a result of having that concern for a

[6]deep venous thrombosis back in 1986 would you put

[7]Jobst, J-O-B-S-T, stockings on that patient?

[8]A. I found -- my answer is no.

[9]Q. Back in 1986 did you put stockings on those

[10]patients?

[11]A. No.

[12]Q. Did other neurosurgeons in your hospitals

[13] [*48] that you were associated with put Jobst stockings on?

[14]MR. VARDARO: Objection.

[15]THE COURT: Sustained.

[16]Q. Were Jobst stockings used in 1986?

[17]A. Yes, sir.

[18]Q. Were they used in conjunction with the

[19]prevention of blood stasis?

[20]A. That was their stated purpose, yes.

[21]Q. And was there a belief back in 1986 that

[22]just these Jobst stockings had some effect on limiting

[23]the amount of pooling of the blood for people who were

[24]on bedrest?

[25]A. There was an argument throughout the use of

[1]59

[2]Jobst stockings as to whether they were effective or

[3]the opposite and caused more problems than they were

[4]designed to treat.

[5]Q. But they were utilized because of the

[6]concern about the development of blood clots?

[7]A. Yes, sir.

[8]Q. Back in 1986 there were certain noninvasive

[9]tests that were available to be used to determine

[10]whether or not somebody had a blood clot in their leg?

[11]A. Yes, sir.

[12]Q. Among those tests was a Doppler study?

[13]A. Yes, sir.

[14]Q. That would be primarily used for a

[15]suspicion of a blood clot in the calf, is that correct? [*49]

[16]A. I don't have enough expertise to say if

[17]that was the only area it worked in but it would be

[18]used in that area, yes.

[19]Q. Talking about expertise, in talking about

[20]deep venous thrombosis and pulmonary embolism, a

[21]pulmonologist would be a specialist in that area?

[22]A. He would be one of the areas that would

[23]cover that, yes.

[24]Q. And back in 1986, besides the Doppler study

[25]and whether or not you have enough expertise to

[1]60

[2]determine whether it was just used for the calf area,

[3]there was also something called an impedance

[4]plethysmography?

[5]A. Yes, I believe that was available then.

[6]Q. Okay. And that's also a test that's called

[7]a noninvasive test where there's no entry into the

[8]patient's body by a needle or any sort of procedure, is

[9]that correct?

[10]A. That's correct.

[11]Q. And back in 1986 impedance

[12]plethysmographies were specifically designed to

[13]diagnose any blood clots in the area of the leg between

[14]the knee and the hip?

[15]A. That's beyond my expertise to answer that,

[16]sir.

[17]Q. Let's just get for a moment back to the

[18]area of expertise **[*50]** with respect to the herniated disk.

[19]You told us I believe that there were two nerve roots

[20]compressing or being compressed on Mr. Isaacson, is

[21]that correct?

[22]A. That was my impression, yes.

[23]Q. And your impression was that both the L3

[24]and the L4 nerve root were being pinched or compressed

[25]by the herniated disk, is that correct?

[1]61

[2]A. Yes, sir.

[3]Q. And I think you said, I wrote it down, I

[4]may have been wrong, you said there was both an

[5]anterior and a lateral herniation?

[6]A. It was an anterolateral herniation.

[7]Q. An anterolateral herniation?

[8]A. Yes.

[9]Q. Where did you get that information?

[10]A. From the postmortem examination.

[11]Q. And specifically could you just refer to

[12]the postmortem examination and show me where you got

[13]that information from?

[14]A. If you will give me a page, anybody?

[15]Q. Well, I could tell you. It starts on --

[16]THE COURT: Page 35, doctor. The

[17]actual postmortem starts on page 35.

[18]MR. VARDARO: It begins on 33.

[19]Q. Doctor, just so we don't have to waste

[20]time, on page 33, you see it says, number [*51] two, skeletal

[21]system?

[22]THE COURT: Page 33.

[23]A. Yes, sir.

[24]Q. And it says L3-4 intervertebral disk

[25]herniation, anterio-right-lateral?

[1]62

[2]A. Yes, sir.

[3]Q. And is that the information that you took

[4]to say that there were two nerve roots being

[5]compressed?

[6]A. That plus the clinical information relevant

[7]to the patient.

[8]Q. And is there -- with respect to page 37 of

[9]the same postmortem examination, do you see that, page

[10]37?

[11]A. Yes, I do, sir.

[12]Q. Okay, And specifically the part which

[13]talks about skeletal system, do you see that?

[14]A. Yes.

[15]Q. About the middle of the page. This is a

[16]part of the autopsy report where the pathologist

[17]actually cut open the area of the disk?

[18]A. I have no idea how these are done, sir.

[19]Q. What does sectioning mean?

[20]A. Cutting.

[21]Q. Excuse me?

[22]A. Sectioning is cutting.

[23]Q. So let me just read to you from the autopsy

[24]report. It says the lumbosacral spine showed some

[25]degeneration of the intervertebral disk on sectioning.

[1]63

[2]That means that the pathologist actually **[*52]** cut into it,

[3]is that correct?

[4]A. Yes, sir.

[5]Q. And then it continues. It says L3-L4 right

[6]anterior protrusion of disk material, is that correct?

[7]A. That's what it says, yes.

[8]Q. So when he did the cutting on page 37 of

[9]this autopsy report the only protrusion or the only

[10]area where the actual disk material came out was on the

[11]anterior or the front part of the patient, is that

[12]correct?

[13]A. It contradicts what he said earlier, so I

[14]don't know how to answer that question, sir.

[15]Q. Were you aware of this information when you

[16]rendered your opinion that there was an antero-lateral

[17]herniation?

[18]A. I was aware of everything in the post, yes,

[19]including that line.

[20]Q. So understanding that this was

[21]contradictory information, you didn't explain that to

[22]the jury in an answer to Mr. Vardaro's question, is

[23]that correct?

[24]MR. VARDARO: I am going to object to

[25]that.

[1]64

[2]THE COURT: Sustained. Strike

[3]counsel's comment.

[4]Q. So clearly there is contradictory

[5]information in that aspect of the autopsy report, is

[6]that correct?

[7] [*53] A. I didn't interpret it as such. He wouldn't

[8]have added lateral if there wasn't lateral, in my

[9]interpretation.

[10]Q. Doctor, if there was not a lateral

[11]herniation, which nerve root would not be affected, if

[12]it was just an anterior herniation?

[13]A. With just an anterior herniation on the

[14]right, more commonly just the L4 nerve root would be

[15]affected, but without question with just anterior

[16]herniation on the right the L3 nerve root can also be

[17]affected depending on how close it's running to L4.

[18]Q. And when you spoke about before -- and I'll

[19]just hold it up so -- can you see it?

[20]A. Yes, sir.

[21]Q. This particular chart gives you, I think

[22]what you describe as the more common distribution of

[23]the nerve root?

[24]A. Yes, sir.

[25]Q. So that the L3 nerve root would be affected

[1]65

[2]if this disk herniation was anterior and lateral, is

[3]that correct?

[4]A. More commonly affected.

[5]Q. More commonly?

[6]A. Yes.

[7]Q. The L3 distribution is in the shaded area,

[8]the darker area that my pen is pointing to, is that

[9]correct?

[10]A. Yes, sir.

[11]Q. **[*54]** And the L4 distribution is in the darker

[12]area below the L3 distribution, is that correct?

[13]A. Yes, sir.

[14]Q. And you say commonly there's some

[15]overlapping in all the nerve root distributions, is

[16]that correct?

[17]A. Yes, sir.

[18]Q. And what doctors do and what they did back

[19]in 1986, understanding that there were some variations

[20]from patient to patient, they took that into account,

[21]is that correct?

[22]A. Yes.

[23]Q. All right. And just holding up the chart

[24]once again, we see distributions in what I'll describe

[25]as -- here's this anatomical representing right leg and

[1]66

[2]left leg, can you see that?

[3]A. Yes, sir.

[4]Q. I guess this is an anterior view, is

[5]that --

[6]A. Looking from the front.

[7]Q. Looking at the front, anterior. This would

[8]be posterior, looking from behind?

[9]A. Yes, sir.

[10]Q. So there's an area, shaded area where I'm

[11]pointing right now to L1, L2 and L3, is that correct?

[12]A. Yes.

[13]Q. Okay. And would that be also true on the

[14]other side, on the left leg?

[15]A. Yes, you could draw the same lines over

[16]there. [*55]

[17]Q. So this shaded area which starts out L1,

[18]that's the distribution of basically L1, and then we

[19]see in the genital area there's an S1-S2 distribution?

[20]A. I can't see it, but there is, yes.

[21]Q. Right here, S1-S2?

[22]A. Yes.

[23]Q. Let me just get back here. Pointing to the

[24]genital area, there's a distribution, S1-S2. And those

[25]are nerve roots that run lower in the sacral area, is

[1]67

[2]that correct?

[3]A. Yes, sir.

[4]Q. And this chart just gives the doctors

[5]information about generally or commonly where, if there

[6]was an injury to a nerve root, where the distribution

[7]of pain would commonly be?

[8]A. Yes, sir.

[9]Q. By the way, the front of the thigh is

[10]called the anterior?

[11]A. Yes.

[12]Q. And that's a medical term of art?

[13]A. Of art? Yes. It's a medical term.

[14]Q. In other words, if you use the word

[15]anterior another doctor is going to know what you mean?

[16]A. Generally, yes.

[17]Q. And posterior is behind?

[18]A. Yes.

[19]Q. And medial is on the inside?

[20]A. Yes.

[21]Q. And lateral, lateral is on the outside?

[22] **[*56]** A. Yes, sir.

[23]Q. Mr. Vardaro referred you to Dr. Brown's

[24]consult note that's dated July 18, do you remember

[25]that?

[1]68

[2]A. Yes, sir.

[3]Q. And read from the note where Dr. Brown

[4]describes just touching the inside of the thigh causes

[5]pain, do you remember that?

[6]A. Yes, I do, sir.

[7]Q. Let me just get the exact wording. Quote.

[8]He says, talking about Mr. Isaacson, he had so much

[9]pain on the inside of his right thigh that just

[10]touching it bothered it. Now Mr. Vardaro asked you

[11]would that area, the inside of the right thigh, in your

[12]opinion, would that be consistent with L3-L4 disk

[13]herniation pain, do you remember that question?

[14]A. Yes, sir.

[15]Q. And you said it would be consistent?

[16]A. Yes, sir.

[17]Q. My question is just a little bit different.

[18]Could the description of so much pain on the inside of

[19]his right thigh, that just touching it bothered it,

[20]could it be inconsistent with L3-L4 disk herniation?

[21]A. No, sir. In other words, an L3-L4 disk

[22]herniation would explain such a finding.

[23]Q. Would there be other explanations for the

[24]inside **[*57]** of the right thigh being so painful that just

[25]touching it bothered it?

[1]69

[2]A. I'm sure there could be, yes.

[3]Q. And what would be the explanation back in

[4]1986?

[5]A. He could have a burn there. He could have

[6]a rash there. He could have traumatized it somehow

[7]there. I mean, a multitude of different explanations.

[8]Q. We know he didn't have a burn?

[9]A. Yes.

[10]Q. We know he didn't have a rash there?

[11]A. Right.

[12]Q. Is there any indication of trauma there?

[13]A. Not that I'm aware of.

[14]Q. Was there any reference to inside -- and by

[15]the way, that's the medial part, inside thigh would be

[16]called medial?

[17]A. I think so, yes.

[18]Q. Do you have any question that it would be

[19]called medial?

[20]A. No. These aren't so precise, that you

[21]can't put your finger on one spot and say everyone

[22]means the same thing. I have always -- I am just

[23]careful about answering that type of question.

[24]Q. But when you look at this hospital record,

[25]and that's what we have to go on, the hospital record,

[1]70

[2]is there any indication before Dr. Brown saw this

[3] [*58] patient that the patient had any pain on the inside of

[4]his thigh?

[5]A. In the chart, not that I am aware of, sir.

[6]Q. Is there any indication that he had pain in

[7]the front of his thigh?

[8]A. What I have to work with is the chart, and

[9]my recollection is that that's where we got our

[10]information. I'm not sure I understand your question,

[11]sir.

[12]Q. The question I think is simple. Is there

[13]any reference in the hospital chart that before Dr.

[14]Brown saw the patient, that there was a history given

[15]of pain on the anterior or the front of the thigh?

[16]A. I'd have to look at the chart. He gave a

[17]history, and I'm a little hesitant to say just before

[18]Dr. Brown or just after Dr. Brown. So if you can show

[19]me what you're referring to, it would help me

[20]tremendously. There's mention in the admission history

[21]by Dr. Leivy of right lower extremity to thigh

[22]anteriorly but not below the knee, but I don't know,

[23]timing, whether that was before or after Dr. Brown. I

[24]believe Dr. Leivy saw him before Dr. Brown so I presume

[25]it's before Dr. Brown.

[1]71

[2]Q. Well, let's presume, and I'll ask you [*59] to

[3]assume that Dr. Leivy testified and he said that this

[4]admission history he received when the patient was

[5]first admitted to the hospital, and the history that he

[6]received was that the pain was -- he developed a back

[7]pain which became progressively more severe and

[8]radiated down the right lower extremity to the thigh

[9]anteriorly but not below the knee.

[10]A. Yes, sir.

[11]Q. And I want you to assume that that was

[12]prepared about 14 hours or so before Dr. Brown saw the

[13]patient.

[14]A. Yes, sir.

[15]Q. My only question is is the anterior thigh

[16]medically a different description than the inside of

[17]the thigh?

[18]A. Oh, yes, sir.

[19]Q. Now Dr. Brown did not feel that the pain --

[20]so much pain on the inside of his right thigh, that

[21]just touching it bothered it, did not feel that that

[22]was necessarily consistent with herniated disk, is that

[23]correct?

[24]A. I don't know what he was presuming, sir.

[25]Q. Well, I'll read the next line. One

[1]72

[2]wonders, and I assume Dr. Brown was wondering, was

[3]wondering if he might develop herpes zoster.

[4]A. Is there a question, sir? [*60] I'm sorry.

[5]Q. Are you familiar with Dr. Brown's

[6]wondering?

[7]A. Yes.

[8]Q. And herpes zoster is a virus, is that

[9]correct?

[10]A. Yes, sir.

[11]Q. And do you agree with Dr. Brown's

[12]assessment, that herpes zoster may be developing on the

[13]inside of his thigh?

[14]A. I just don't have enough information to

[15]agree or disagree, sir.

[16]Q. Would herpes zoster -- or does herpes

[17]zoster follow a nerve root distribution?

[18]A. It very often does, yes.

[19]Q. And is there any nerve root distribution

[20]that just runs, just runs to the inside of the thigh?

[21]A. Now you are going to have to be very

[22]specific and draw me a picture because L1, L2 and L3

[23]all partially cover the inside of the thigh.

[24]Q. Okay. Well, my question is is there any

[25]nerve root distribution that just runs to the inside of

[1]73

[2]the thigh where a patient would describe pain just on

[3]the inside of his thigh so much so that just touching

[4]it causes him extreme pain?

[5]A. There are a couple of questions in there.

[6]There are nerve roots when irritateds that can cause

[7]pain just on the inside [*61] of the thigh, which I think was

[8]the first of the questions.

[9]Q. In terms of herpes zoster, if there was an

[10]inflammation of a nerve root with respect to a -- a

[11]herpes zoster is a virus, is that correct?

[12]A. Yes, sir.

[13]Q. Would one expect that the pain from a

[14]herpes zoster type of condition would just be located

[15]in one spot on the inside of the thigh?

[16]A. It can be.

[17]Q. It wouldn't follow the entire nerve root

[18]distribution?

[19]A. It doesn't have to.

[20]Q. Can it?

[21]A. It can.

[22]Q. But the development of herpes zoster is

[23]something that's different than pain from a herniated

[24]disk, is that correct?

[25]A. Yes, sir.

[1]74

[2]Q. And Dr. Brown thought about something

[3]different than a herniated disk, is that correct?

[4]A. In addition to thinking about a herniated

[5]disk, he thought about something else, yes.

[6]Q. With respect to your review of this case

[7]and coming in with your opinions on behalf of the

[8]defendant, we know from autopsy he had a herniated

[9]disk?

[10]A. Yes, sir.

[11]Q. We know from autopsy that he had a

[12]pulmonary [*62] embolism?

[13]A. Yes, sir.

[14]Q. We know from autopsy that he had a blood

[15]clot that became a pulmonary embolism, is that correct?

[16]A. Yes, sir.

[17]Q. We also know that he never developed or

[18]never had herpes zoster, is that correct?

[19]A. I can't say that he never had herpes

[20]zoster. As far as I know he never developed a rash

[21]that would show it. That doesn't totally rule it out.

[22]Q. We know he never developed a rash?

[23]A. Yes, sir.

[24]Q. And we know on autopsy there's no mention

[25]of herpes zoster, is that correct?

[1]75

[2]A. No, there's not, but you have to look very

[3]specifically for it. You have to culture the dorsal

[4]root.

[5]Q. Do you know if the pathologist looked for

[6]it?

[7]A. There's no indication that he did, sir.

[8]Q. Do you know that he didn't look for it?

[9]A. No.

[10]Q. Doctor, you answered certain questions from

[11]Mr. Vardaro talking about your expectation. I think

[12]you mentioned if a person had a blood clot in the deep

[13]venous system, that blood clot would become larger and

[14]the pain would increase, is that correct?

[15]A. It could [*63] happen, yes, sir.

[16]Q. When you say, "It could happen," isn't it

[17]true that it doesn't have to happen?

[18]A. I would be going beyond my expertise to

[19]give other than my opinion. So I would presume yes, it

[20]doesn't have to happen as well.

[21]Q. Isn't it true, doctor, that in fact that

[22]medical knowledge back in 1986 of those people who were

[23]expert in the field recognized that the pain of venous

[24]thrombosis is not characteristic at all?

[25]A. I don't understand the question.

[1]76

[2]Q. Well, isn't it true that you may have an

[3]ache, you may have a cramp, you may have a sharp, you

[4]may have a dull, you may have a severe or you may have

[5]a mild pain or you may have no pain at all?

[6]A. I'm sure all of those things are true.

[7]Q. Isn't it true that the pain may be either

[8]constant, progressive, intermittent, isn't that true?

[9]A. I can only respond by my experience, if

[10]that's allowed, that it's constant and progressive.

[11]Q. Doctor, are you familiar with an article

[12]called "Natural History and Clinical Features of Venous

[13]Thrombosis" by Dr. Jack Hirsch and Dr. Russell D. Hull? [*64]

[14]A. No, I am not, sir.

[15]MR. VARDARO: Can we have the year?

[16]MR. HESS: 1983.

[17]THE COURT: Okay. He said no, he

[18]wasn't familiar with it.

[19]Q. Do you know the names Dr. Hirsch and Dr.

[20]Hull?

[21]A. No, I don't, sir.

[22]Q. Doctor, would you agree that the pain of a

[23]deep venous thrombosis is aggravated by movement?

[24]A. In my experience it's usually constant and

[25]not affected particularly by movement.

[1]77

[2]Q. So you would disagree that pain of

[3]venous --

[4]THE COURT: Just a minute, counsel.

[5]You want to approach the bench, please?

[6]Doctor, step down.

[7]THE WITNESS: Sure.

[8](Discussion off the record at the

[9]bench.)

[10]THE COURT: All right, let's resume.

[11]Q. Doctor, you mentioned before upon

[12]questioning by Mr. Vardaro that in the autopsy report

[13]that we have in this case there is no mention as to the

[14]origin of the blood clot that became the embolus, that

[15]became the massive embolus in this case that killed

[16]Mr. Isaacson?

[17]A. I believe that they said they couldn't find

[18]a site. I would like to see the precise wording before

[19] **[*65]** I answered the question yes or no.

[20]Q. Well, I assume you reviewed the hospital

[21]record before you came in with your opinions before the

[22]jury?

[23]A. Yes, sir.

[24]Q. So I'm asking you based -- this same

[25]opinion that you ventured before upon Mr. Vardaro's

[1]78

[2]question, I'm asking you is there anything in the

[3]pathology report that mentions the origin of the site

[4]of the blood clot?

[5]A. I'm sorry, I didn't understand the

[6]question. No, there is not.

[7]Q. But in medicine back in 1986 with respect

[8]to pulmonary emboli, blood clots that travel, medicine

[9]recognized that 95 percent of the time those emboli

[10]originated as a blood clot in the lower extremities, is

[11]that correct?

[12]A. Yes, sir.

[13]Q. With a 95 percent certainty that blood clot

[14]that ended up as an embolus in Mr. Isaacson's lungs

[15]started out in his legs?

[16]A. Somewhere in the region of the leg, yes.

[17]Q. Now is there any, any reference in the

[18]autopsy report about the clinical signs, symptoms and

[19]complaints that went on in the hospital record?

[20]A. I believe there's a clinical summary, and I

[21]presume [*66] that in there there's mention of some things.

[22]Q. Is there any mention of any other

[23]complaints that Mr. Isaacson had, in other words, did

[24]he complain about his right leg or his left leg?

[25]A. There's a notation, complaining of right

[1]79

[2]leg pain and backache.

[3]Q. When you look at the autopsy report without

[4]any reference whatsoever to the hospital record and the

[5]patient's course in the hospital, one, a doctor, you,

[6]sir, can surmise from medical knowledge that the blood

[7]clot originated in one of his legs, is that correct?

[8]A. In the region of one of his legs, yes.

[9]Q. And utilizing the hospital record and

[10]understanding that all the complaints in the hospital

[11]record all deal with the right leg, would that indicate

[12]to you that more likely than not the blood clot was in

[13]the right leg?

[14]A. No, sir.

[15]Q. It doesn't matter that there were no

[16]complaints whatsoever about the left leg?

[17]A. No, sir.

[18]Q. As a matter of fact, you told the jury that

[19]all the signs and symptoms that are available to you in

[20]your review of the hospital record are all consistent

[21] **[*67]** with herniated disk?

[22]A. Yes, sir.

[23]Q. Doctor, an elevated temperature, is that

[24]consistent with herniated disk?

[25]A. No, sir.

[1]80

[2]Q. There are elevated temperatures in this

[3]hospital chart, aren't there?

[4]A. Minimally, if that's all. No. 99.

[5]Q. Well --

[6]A. 99-2 I don't consider an elevated

[7]temperature, sir.

[8]Q. What about 99-5?

[9]A. No.

[10]Q. Is that his normal temperature?

[11]A. It may well be.

[12]Q. Well, how about if I told you when he came

[13]into the hospital he had 98.2?

[14]A. Well, I'd say he was still fluctuating in

[15]what I see as the range of normal temperatures measured

[16]on patients in the hospital.

[17]Q. How about if I told you that when he came

[18]in he had 98.2, then they put him on Tylenol with

[19]codeine -- and by the way, Tylenol is a fever reducer?

[20]A. Yes, sir.

[21]Q. And after they put him on Tylenol with

[22]codeine his temperature went to 99.5, is that

[23]consistent with a herniated disk?

[24]A. No, sir.

[25]Q. How about if I told you that there's a

[1]81

[2]white blood cell count of 17,600 white blood **[*68]** cells, is

[3]that consistent with a herniated disk?

[4]A. No, sir.

[5]Q. Doctor, the prognosis -- what's prognosis,

[6]by the way?

[7]A. Prediction of outcome.

[8]Q. Doctor, the prognosis for a patient with

[9]pulmonary embolism, that's after the clot breaks loose,

[10]in whom therapy is promptly instituted, that prognosis

[11]is excellent, is that correct?

[12]MR. VARDARO: Your honor, my objection

[13]is that it's beyond direct.

[14]THE COURT: Well, it is, but I think

[15]it is allowable under the circumstances, if

[16]the doctor can answer it.

[17]A. The answer to that question is partially

[18]beyond the scope of my knowledge, but my knowledge very

[19]clearly states that it's very much determined by the

[20]size of the pulmonary embolus.

[21]Q. Doctor, would the prognosis for a patient

[22]with the discovery of a blood clot in their leg, a deep

[23]venous thrombosis, the prognosis for that patient is

[24]even more excellent with the institution of therapy

[25]than a patient who is discovered with a pulmonary

[1]82

[2]embolism, isn't that correct?

[3]A. I don't -- I can't give you numbers. The

[4]answer is that it's **[*69]** better if you find the clot before

[5]it's a pulmonary embolus, but I don't feel qualified to

[6]agree with excellent, more excellent, whatever

[7]percentages those are, because I don't have that

[8]information available to me, sir.

[9]Q. Doctor, in the hospital record I think you

[10]mentioned to Mr. Vardaro that there were no complaints

[11]of thigh pain documented on the 19th of July, is that.

[12]correct?

[13]A. I believe that is correct, yes. There were

[14]some other -- I would have to have the question to

[15]remember exactly what it was, but --

[16]Q. Well, assume that's what was asked of you.

[17]A. Yes, sir.

[18]Q. With respect to we know on the 18th that

[19]Dr. Brown's note talks about the inner thigh, just

[20]touching it causes incredible pain, and we know about

[21]on the 21st the physical therapist mentions about the

[22]groin pain, do you remember that?

[23]A. Yes, sir.

[24]Q. And then we know on the 22nd Dr. Leivy

[25]mentions the inner thigh pain and -- by the way, you

[1]83

[2]were comfortable that in your opinion at least to this

[3]jury that nothing else was going on other than a

[4]herniated disk, is that correct? **[*70]**

[5]A. I was comfortable in stating that the

[6]clinical signs and symptoms he was presenting were all

[7]explainable and consistent with herniated disk, yes.

[8]Q. But that's not what doctors do in treating

[9]the patient, they don't just concern themselves with

[10]whether one condition and all the symptoms fit within

[11]that one condition, doctors also concern themselves

[12]with whether the complaints, the symptoms, the signs

[13]also fit into perhaps something more serious, isn't

[14]that correct?

[15]A. Yes, I could agree with that.

[16]Q. Isn't that what a differential diagnosis is

[17]utilized for in medicine?

[18]A. Yes, sir.

[19]Q. And doctor, in this particular case Dr.

[20]Leivy on the 22nd at least wasn't comfortable with what

[21]was going on with Mr. Isaacson, was he?

[22]A. I don't know if I can answer that question.

[23]Q. Well, we know on the 22nd that Dr. Leivy

[24]ordered a bone scan?

[25]A. Yes, sir.

[1]84

[2]Q. Now the bone scan wasn't ordered for the

[3]diagnosis of the herniated disk, was it?

[4]A. That's correct.

[5]Q. Because if you wanted to just confirm your

[6]diagnosis of [*71] herniated disk you would do an MRI,

[7]correct?

[8]A. In '86 I'm not sure what was available.

[9]Q. All right. So in '86 we certainly know

[10]that CAT scans were available?

[11]A. Yes, sir.

[12]Q. So you would do a CAT scan in '86?

[13]A. Yes.

[14]Q. You wouldn't do a bone scan that requires a

[15]radioactive substance be injected in a person unless

[16]you were concerned that something was going on here

[17]other than what I think it is and that's why you would

[18]order the bone scan?

[19]A. I can agree with that, other than or in

[20]addition to.

[21]Q. So despite the fact that your opinion is

[22]that you were comfortable with all the signs and signs

[23]here of being a herniated nucleus pulposus or a

[24]herniated disk, in fact the defendant himself wasn't

[25]comfortable and ordered a bone scan on July 22?

[1]85

[2]MR. VARDARO: Objection. That's not

[3]the testimony in this case regarding the

[4]bone scan.

[5]THE COURT: Sustained.

[6]Q. Dr. Leivy thought there was some bony

[7]pathology going on, isn't that correct?

[8]A. I don't know if he thought that or not,

[9]sir. I would guess that's what [*72] he was trying to rule

[10]out but it would be a guess only.

[11]Q. Well, you know, doctor, you said you read

[12]his deposition, didn't you?

[13]A. Yes, sir.

[14]Q. And in fact at the deposition Dr. Leivy was

[15]asked, "This bone scan, what was that?" And Dr.

[16]Leivy's answer was, "To exclude any bony abnormalities

[17]which was not apparent on the physical examination."

[18]So that's in fact what Dr. Leivy testified to?

[19]A. Yes, sir.

[20]Q. And Dr. Leivy -- a bony abnormality is not

[21]a herniated disk?

[22]A. That's correct.

[23]MR. HESS: Judge, just two minutes and

[24]I think I'll be through.

[25]Q. On the 19th of July, 1986, in the nurses'

[1]86

[2]notes, if you want to look at it.

[3]A. Page, sir?

[4]Q. It's page 15.

[5]A. Thank you.

[6]Q. You told this jury there was no reference

[7]to thigh pain on the 19th. But in fact in the nurses'

[8]notes it says medicated for leg pain, is that correct?

[9]A. I'm sure it's there. I didn't pick it out

[10]but I'm sure it's there.

[11]Q. I think it looks like a 3 A.M. note or a 3

[12]P.M. note, do you see that?

[13]A. I'm sure it's there, [*73] sir, yes.

[14]Q. Patient complains of pain, earlier

[15]medication for leg pain?

[16]A. I can see it.

[17]Q. What part of his leg was hurting?

[18]A. I don't know, sir.

[19]Q. Well, when you tell the jury that there was

[20]no indication that he had thigh pain, the leg pain very

[21]well may have included his thigh pain?

[22]MR. VARDARO: Objection, your honor.

[23]THE COURT: Yes, sustained.

[24]Speculation.

[25]Q. Do you know what part of his leg was

[1]87

[2]hurting him?

[3]MR. VARDARO: Your honor, it's

[4]obvious. I object to the question.

[5]MR. HESS: What's obvious?

[6]THE COURT: Speculation. Sustained,

[7]counsel.

[8]Q. On July 19, 1986, do you know what part of

[9]his leg was hurting him?

[10]MR. VARDARO: By this record?

[11]MR. HESS: By this nurse's note.

[12]MR. VARDARO: I have no objection.

[13]A. No, sir.

[14]Q. As a matter of fact, throughout the

[15]hospital record there are some references to leg pain

[16]and you don't know what part of his leg was hurting

[17]him?

[18]A. That's correct, sir.

[19]Q. With respect to Dr. Leivy's note, what's

[20]the purpose of [*74] a doctor putting a medical note in a

[21]chart?

[22]A. To document his findings and to communicate

[23]with other people who are assisting in the care of the

[24]patient.

[25]Q. The doctor puts down his findings?

[1]88

[2]A. If they're pertinent, if he considers them

[3]pertinent, yes.

[4]Q. And is there a difference between a

[5]doctor's note and a nurse's note?

[6]A. The doctor is writing one and the nurse is

[7]writing the other.

[8]Q. Are you aware on July 18 Dr. Leivy wrote,

[9]and the entirety of his note for July 18 is bad night,

[10]now a little better? Does that give you any medical

[11]information?

[12]A. It tells me that he's not in as much pain

[13]but nothing more than that, sir.

[14]Q. Does it tell you where his pain was?

[15]A. No, sir.

[16]Q. How about a note on the 19th, lots of pain

[17]when changed beds and when sits up, does that tell you

[18]where his pain is?

[19]A. No, sir.

[20]Q. How about on the 21st, pain may be

[21]subsiding, will add PT, does that tell you anything

[22]about where his pain was?

[23]A. No, sir.

[24]MR. HESS: That's it, judge. I have

[25]nothing else. Thank [*75] you.

[1]89

[2]MR. VARDARO: Just a few, your honor,

[3]if I may.

[4]REDIRECT EXAMINATION

[5]BY MR. VARDARO:

[6]Q. Doctor, with respect to the bone scan, in

[7]1986, doctor, was that a diagnostic test, a bone scan?

[8]A. Yes.

[9]Q. Okay. And doctor, what if anything does a

[10]bone scan reveal?

[11]A. It will hopefully reveal any abnormal

[12]pathology in the bone itself.

[13]Q. And some of that pathology might be a

[14]tumor?

[15]A. Yes, sir.

[16]Q. Osteomyelitis?

[17]A. Yes, sir.

[18]Q. Osteomyelitis is an infection, true?

[19]A. Yes, sir.

[20]Q. And also if the patient has any arthritis?

[21]A. Yes, sir.

[22]Q. Doctor, when Dr. Leivy received the

[23]complaint on the 22nd, ordered a bone scan, was he

[24]entertaining a possible differential diagnosis?

[25]MR. HESS: Objection.

[1]90

[2]THE COURT: Overruled. If you could

[3]answer it.

[4]A. I presume he was because he wouldn't be

[5]trying to diagnose a herniated disk by the bone scan.

[6]Q. Okay. Doctor, one of the things that I

[7]think you were also asked about, an elevated

[8]temperature with respect to the [*76] white counts. On the

[9]18th was there a urinalysis also taken?

[10]A. Yes, sir.

[11]Q. Okay. And doctor, did that show white

[12]blood cells, two to three white blood cells?

[13]A. Yes, sir.

[14]Q. Did it also show red blood cells in the

[15]urine, 14 to 17?

[16]A. Yes, sir.

[17]Q. Is that normal, doctor?

[18]A. No, sir.

[19]Q. Doctor, is that suggestive of some urinary

[20]tract infection?

[21]A. Possibly.

[22]Q. Could it also be suggestive of a resolving

[23]prostatitis?

[24]A. Possibly.

[25]Q. Doctor, one of the other things that I

[1]91

[2]think you were asked by Mr. Hess is that long sitting

[3]in cramped spaces, can that cause a thrombus, do you

[4]remember that question?

[5]A. Yes, I do, sir.

[6]Q. Doctor, was this patient from the time of

[7]admission, the early morning hours of July 18 of 1986,

[8]till July 22 of 1986, was he in a cramped bed to your

[9]knowledge?

[10]A. Not to my knowledge, no.

[11]Q. Is a bed a cramped position or location?

[12]A. No, sir.

[13]Q. Can you have free movement of the legs in

[14]all direction?

[15]A. Yes, sir.

[16]Q. Doctor, [*77] a patient on bedrest such as

[17]Mr. Isaacson, and I think you were asked by Mr. Hess,

[18]is he at high risk for a thrombus?

[19]A. No, sir.

[20]Q. Doctor, a thrombus, is that determined or

[21]diagnosed by clinical signs and symptoms?

[22]A. It is very often impossible to diagnose it

[23]at all by clinical signs and symptoms, if there are

[24]signs and symptoms which we have reviewed which would

[25]be indicative of the same.

[1]92

[2]Q. And doctor, anywhere in the hospital chart

[3]were there any signs and symptoms of a thrombus in this

[4]patient?

[5]A. No, sir.

[6]THE COURT: Any questions?

[7]MR. HESS: Just one.

[8]RECORD-EXAMINATION

[9]BY MR. HESS:

[10]Q. Did Dr. Leivy call for a urologist to

[11]diagnose this possible urinary tract infection?

[12]A. Sir, I don't recall if he did.

[13]Q. Okay: Thank you.

[14]REREDIRECT EXAMINATION

[15]BY MR. VARDARO:

[16]Q. On the following day, doctor, was there a

[17]urinalysis taken after the first one on the 18th?

[18]A. Yes, there was, sir.

[19]Q. And did it show just occasional white

[20]cells?

[21]A. That's my recollection, yes.

[22]Q. And the [*78] second urinalysis showed ho red

[23]blood cells, correct?

[24]A. That's my recollection.

[25]Q. Doctor, is that an indication of a

[1]93

[2]resolving urinary tract infection or possible

[3]prostatitis?

[4]A. It could be.

[5]Q. Doctor, was there any need based on that

[6]second urinalysis to call in an urological consult?

[7]A. No, I don't think so.

[8]Q. Thank you, doctor.

[9]MR. HESS: I have nothing.

[10]THE COURT: Thank you, doctor.

[11]THE WITNESS: Thank you.

[12]THE COURT: You may step down.

[13]Mr. Vardaro, do you have a witness for

[14]after lunch?

[15]MR. VARDARO: Your honor, I have a

[16]witness for tomorrow. We will take a

[17]witness out of turn. But this afternoon I

[18]would like to read a small EBT of

[19]approximately 47 pages.

[20]THE COURT: All right. Retire the

[21]jury for lunch until 2 P.M.

[22]Retire the jury.

[23](Jury retired.)

[24](Luncheon recess taken.)

[25]

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