

STATE OF OHIO,)
) SS: Terrence O'Donnell, J.
COUNTY OF CUYAHOGA.)

IN THE COURT OF COMMON PLEAS

Doc. 296

ANTHONY P. DIMARCO, SR.,)
et al.,)

Plaintiffs,)

vs.)

Case No. 93882

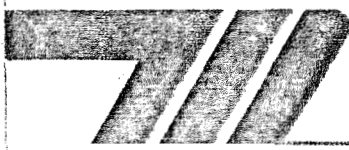
LEONARD H. BERNSTEIN,)
M.D.,)

Defendant.)

- - -

Deposition of PHILLIP IRWIN LERNER, M.D.,
a witness herein, taken by the Plaintiffs as if
upon cross-examination before Marguerite A. Sandoz,
RPR/CM and Notary Public within and for the State
of Ohio, at Mt. Sinai Medical Center of Cleveland,
One Mt. Sinai Drive, Cleveland, Ohio, on Monday,
the 15th day of September, 1986, commencing at 3:30
p.m., pursuant to notice and agreement of counsel.

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1 ~~XXXXXXXXXX~~

2 Joseph E. Coticchia, Esq.,

3 On behalf of the Plaintiffs.

4 Jacobson, Maynard, Tuschman & Kalur Co., L.P.A.,
by: William D. Bonezzi, Esq.,

5 and
6 Dale L. Kvardiany, Esq.,

7

8 - - -

9

10 STIPULATIONS

11

12 It is stipulated by and between counsel
13 for the respective parties that this deposition may
14 be taken in stenotypy by Marguerite A. Sandly; that
15 her stenotype notes may be subsequently transcribed
16 in the absence of the witness; and that all
17 requirements of the Ohio Rules of Civil Procedure
18 with regard to notice of time and place of taking
19 this deposition are waived.

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25

1 PHILLIP IRWIN LERNER, M.D.,
2 a witness herein, called by the Plaintiffs for the
3 purpose of cross-examination as provided by the
4 Ohio Rules of Civil Procedure, being by me first
5 duly sworn, as hereinafter certified, deposes and
6 says as follows:

7 CROSS-EXAMINATION

8 BY MR. COTICCHIA:

- 9 Q. Please state your full name.
- 10 A. Phillip Irwin Lerner.
- 11 Q. How do you spell your last name?
- 12 A. L-e-r-n-e-r.
- 13 Q. What is your home address?
- 14 A. 2567 Edgerton, l-d-g-e-r-t-o-n, Road,
15 University Heights.
- 16 Q. What is your occupation or profession?
- 17 A. Physician.
- 18 Q. Are you employed?
- 19 A. Yes.
- 20 Q. Who is your employer?
- 21 A. Mt. Sinai Medical Center.
- 22 Q. Do you specialize in any area of medicine?
- 23 A. **infectious** diseases.
- 24 Q. What is the specialty of **infectious**
25 diseases?
-

1 A. The diagnosis and treatment of infections.

2 Q. Will you relate to us your educational
3 background.

4 A. It's very extensive and it's contained in
5 my curriculum vitae, which should save us a little
6 time.

7 MR. KWARCIAKY: A copy of which
8 I have already furnished you, Mr. Coticchia.

9 MR. COTICCHIA: You did?

10 MR. KWARCIAKY: Yes.

11 MR. COTICCHIA: I have a
12 curriculum vitae of a Philip Hanus. I don't think
13 I got one --

14 Oh, here it is. All right.
15 I'm sorry.

16 Q. (BY MR. COTICCHIA) Essentially, I'll
17 quickly go over this, you received a Bachelor of
18 Science from Western Reserve in 1954, correct?

19 A. Correct.

20 Q. You received your medical degree from
21 Western Reserve in 1958; is that correct?

22 A. Correct.

23 Q. You served your internship and residency
24 at Beth Israel, Boston, Massachusetts?

25 A. And at Tufts New England Medical Center.

1 Q. First, it was in '58, '59?

2 A. The first two years of the four-year
3 program were at Beth Israel, and the last two were
4 at the Tufts New England Medical Center.

5 Q. Are you Board certified?

6 A. No.

7 Q. Do you currently teach in any medical
8 school?

9 A. Yes. At Reserve.

10 Q. What subjects do you teach?

11 A. Infectious diseases.

12 Q. I'm going over a list of papers that have
13 been published and papers in preparation. Is this
14 a current list?

15 A. I have no idea when I supplied it to you.
16 Let me check.

17 There are probably one or two pages that
18 have been published since, but this is essentially
19 up-to-date.

20 Q. Items No. 53, 54 and 55 essentially
21 discuss respiratory infections; is that correct?

22 A. Those particular ones are forms of
23 respiratory infections, yes.

24 Q. How is it that you came about being
25 contacted by Mr. Kwarciany?

1 A. You'd have to ask Mr. Kwarciany.

2 Q. Do you know him?

3 A. I don't believe we have had anything that
4 we have worked on before this case.

5 Q. Do you know anyone from the offices of
6 Jacobson, Maynard, Tuschman & Kalur?

7 MR. BONEZZI: Objection.

8 A. Yes. Yes, I do.

9 Q. Who do you know from those offices?

10 A. I know Bob Maynard, I've met Aaron
11 Jacobson. I knew Cyril McIlhargie when he worked
12 there.

13 Q. Have you ever had occasion to testify as
14 a medical expert in any medical malpractice case on
15 behalf of any of the attorneys that you just
16 mentioned?

17 MR. BONEZZI: At arbitration,
18 trial?

19 MR. COTICCHIA: At any matter,
20 deposition, medical reports, testimony.

21 MR. BONEZZI: Objection.

22 A. Yes.

is Q. Are you insured by way of professional
24 liability insurance?

25 A. Yes.

1 Q. Is your insurance carrier PIE?

2 A. Yes.

3 Q. Have you ever sat on any review
4 committees composed of insureds of PIE in regard to
5 medical malpractice claims?
6

7 A. I am not sure I understand that.

8 Q. Independent of this case, have you been
9 asked to review other cases involving medical
10 malpractice?

11 A. By who?

12 Q. By any of these attorneys.

13 MR. BONEZZI: Objection.

14 Q. (BY MR. COTICCHIA) Do you understand the
15 question?

16 A. Yes. I have been involved in cases with
17 them before. This is --

18 Q. All right. Would this be on behalf of
19 the doctor who was being sued?

20 A. I review cases for both sides.

21 Q. For plaintiffs, in other words, patients
22 as well as for doctors?

23 A. Yes.

24 Q. Have you given testimony on behalf of a
25 patient in a lawsuit against a doctor or a hospital?

1 A. Yes.

2 Q. When is the last time you did this, if
3 you recall?

4 A. Deposition?

5 Q. Yes. Or trial.

6 A. It was a couple weeks ago.

7 Q. Was that in Cuyahoga County?

8 A. Yes.

9 Q. Do you remember the name of the case?

10 A. I could look it up. I just don't recall
11 the names at the moment.

12 Q. Do you recall the name of the attorney
13 who represented the patient?

14 A. No, I'd have to look it up.

15 MR. COTICCHIA: Would you mark
16 this Lerner Deposition --

17 A. Wait a minute. I do remember. Edwin
18 Kennedy.

19 Q. Okay. Thank you.

20 MR. COTICCHIA: Would you mark
21 this Plaintiff's Lerner Deposition Exhibit No. 1.

22 (Plaintiff's Lerner Deposition
23 Exhibit No. 1 was marked for
24 identification.)

25 MR. COTICCHIA: Now, Mr. Bonezzi,

1 you wanted to say something?

2 MR. BONEZZI: It need not be
3 said.

4 MR. COTICCHIA: Then I'd request
5 that you keep your comments on the record.

6 MR. BONEZZI: I tried to put
7 it on the record, Mr. Coticchia, but you stopped me.

8 MR. COTICCHIA: That's because
9 the Court reporter was marking an exhibit. Would
10 you care to repeat what you were saying before?

11 MR. BONEZZI: No, I don't care.

12 MR. COTICCHIA: Then I'd renew
13 my request.

14 MR. BONEZZI: Keep on going,
15 would you please, with the deposition.

16 MR. COTICCHIA: I think I know
17 how to handle my own deposition.

18 MR. BONEZZI: I am wondering.

19 MR. COTICCHIA: Do you want to
20 get involved in an argument on the record?

21 MR. BONEZZI: Let's go. You
22 heard my statement.

23 MR. COTICCHIA: Any --

24 MR. BONEZZI: If you want to
25 argue, go ahead and do it with somebody else.

1 MR. COTICCHIA: FOR THE RECORD,
2 counsel for the defendant made a comment while the
3 Court Reporter was marking an exhibit and now he
4 refuses to repeat the comment.

5 MR. BONEZZI: That is correct.

6 Q. (BY MR. COTICCHIA) DR. Lerner, you
7 testified a moment ago that you have testified in
8 medical malpractice cases for both plaintiffs and
9 defendants. Can you give me a percentage of the
10 cases in which you've testified for plaintiffs and
11 a percentage of cases you have testified for
12 defendants?

13 A. I do not keep track of that.

14 Q. How often in the last 12 months have you
15 testified in either type of, or either side of a
16 malpractice case?

17 A. I do not have that in my head. It would
18 be something that would have to be looked up.

19 Q. Would it be more than once a month?

20 MR. BONEZZI: Once a month for
21 what?

22 MR. COTICCHIA: Providing
23 testimony or reviewing medical records in regard to
24 malpractice cases.

25 MR. BONEZZI: On behalf of

1 plaintiffs or defendants?

2 MR. COTICCHIA: Either.

3 A. I would say that I review approximately
4 two dozen cases a year, and the breakdown I just
5 don't keep track of it.

6 Q. Out of the two dozen cases per year, how
7 often would you give testimony?

8 A. Half of them end up getting depositions
9 given, approximately.

10 Q. Okay. I call your attention to what's
11 been marked Plaintiff's Exhibit No. 1. It's dated
12 July 7th. It was sent to Mr. Kwarciany. Is that
13 your signature at the end of the letter?

14 A. Yes.

15 Q. Is this also a copy of it, what's been
16 marked Exhibit 1?

17 A. Yes.

18 Q. Would you please tell me what materials
19 you reviewed prior to this letter in regard to
20 DiMarco versus Bernstein?

21 A. They're listed in the letter that
22 Mr. Kwarciany sent to me on June 10th, 1986. I
23 don't have that letter with me.

24 Q. Well, what materials --

25 A. That lists all the materials he sent me.

1 At the moment, it was the record -- as far as I
2 know, it was the record of the hospitalization in
3 question and I think it was Dr. Bernstein's
4 deposition. Was it more than that?

5 MR. KWARCZYNY: For the record,
6 Mr. Coticchia, I've already provided you with the
7 answer to that question. Namely, I provided
8 Dr. Lerner with the following: one, the patient's
9 complete medical, hospital records; two,
10 Dr. Bernstein's hospital records; three,
11 Dr. Bernstein's deposition; four, the report of
12 Dr. Stephen Schreiber, the ENT specialist; five,
13 the expert report of Peter Froctcr; and six, the
14 package insert and manufacturer's literature
15 concerning Tobramycin.

16 Q. (BY MR. COTICCHIA) Did you review any
17 other depositions since you wrote this letter, or
18 any other materials?

19 A. I don't believe so.

20 Q. Did you review a letter prepared by
21 Dr. Porter?

22 A. Porter?

23 Q. Yes.

24 A. I don't believe so,

25 Q. Did you review the deposition of

1 R Fortin?

2 A. That name doesn't ring a bell.

3 Q. Did you review the deposition of
4 Dr. Proctor?

5 A. I don't know if I reviewed his deposition
6 or his letter, whatever was sent to me on July 10th,
7 on June 10th.

8 Q. We know you reviewed his letter, there
9 was a subsequent deposition by Mr. Kwarciany.

10 A. I didn't review that.

11 Q. Did you review a letter prepared by

12 Dr. Katz, dated October 2nd, 1985?

13 A. If it was not included in the packet sent
14 to me on June 10th, I did not review it.

15 MR. COTICCHIA: I don't remember
16 when you read off that list, was that --

17 MR. KWARCIAKY: I did not
18 provide him with Dr. Katz' letter.

19 Q. (BY MR. COTICCHIA) I'd like to go to the
20 third page of your report, Dr. Lerner, the
21 beginning of the last sentence. I quote, "Despite
22 no objective evidence of infection and/or sepsis,
23 it was mandatory that Dr. Bernstein cover this
24 patient with an extended course of a broad-spectrum
25 prophylactic antibiotic since the patient's

1 preceding continued and required repeated bladder
2 irrigation to remove clots," et cetera, "representing
3 a major and continuing avenue for sepsis," close
4 quote.

5 Isn't it correct that prior to the
6 administration of kebcin, Dr. Bernstein had
7 administered kefizol and Keflex to Mr. DiMarco?

8 A. That's correct.

9 Q. Are these not broad-spectrum antibiotics?

10 A. Not as broad as aminoglycosides.

11 Q. Not as broad, but are they broad-spectrum
12 antibiotics?

13 A. Some people do consider them broad-spectrum,
14 I do not.

15 Q. You've mentioned that the bladder
16 irrigation represented a major avenue for sepsis.
17 Is there anything in the record to support this
18 statement?

19 A. Support what statement?

20 Q. That the bladder irrigation was a major
21 avenue for sepsis in regard to Mr. DiMarco.

22 MR. BONEZZI: Objection.

23 A. I don't understand your question. The
24 statement is a statement.

25 Q. How do you know that?

1 A How do I know what?

2 Q. That it's a major avenue for sepsis.

3 A. I have been practicing in infectious
4 diseases for 25 years. This man has an appreciably
5 invaded prostatic bed of tissue that was raw and
6 friable and a major risk in light of the fact that
7 his bladder was constantly being irrigated to keep
8 it free from blood clots. That is a major avenue
9 of sepsis.

10 Q. All right. I understand what you're
11 saying.

12 How do you determine whether, in fact, at
13 the time that the bladder irrigations were being
14 performed that sepsis was present?

15 A. I didn't say that it was present.

16 Q. I didn't say that you said it. I am
17 saying, if Dr. Bernstein wanted to determine, in
18 fact, that sepsis was present, how would he have
19 determined this?

20 MR. BONEZZI: Objection. You
21 may answer if you can.

22 A. Dr. Bernstein initiated this therapy at
23 the time the patient developed some alarming new
24 symptoms. He developed a serious bleeding problem
25 several days after the surgical procedure, herald

1 by the patient's complaints of feeling shaky and
2 very cold.

3 Dr. Bernstein obtained a urine culture
4 and did not wait for the results of the culture,
5 but initiated this therapy. Despite the fact that
6 the urine culture didn't grow anything, he
7 continued to administer this antibiotic because of
8 the fact that the bleeding was continuing, the
9 irrigations were continuing and the same risk
10 eventuated. It would have been foolhardy and
11 totally inappropriate not to cover this man with an
12 appropriate broad-spectrum antibiotic during this
13 maneuver.

14 Q. Is it unusual following prostate surgery
15 for a patient like Dr. DiMarco to pass blood in his
16 urine?

17 MR. BONEZZI: Mr. DiMarco.

18 Q. I mean Mr. DiMarco.

19 A. Blood in the urine post transurethral resection
20 is not uncommon. What was a little bit uncommon in
21 this case was the bleeding worsened X number of

24 the part of the patient.

1 A. He was complaining of feeling cold, very
2 cold, and was snaky, suggesting that he was either
3 about to develop a toxic reaction or a high fever
4 or something of that nature.

5 Q. Isn't it a fact, based on the records,
6 that there was no high fever?

7 MR. BONEZZI: Objection.

8 A. I'd have to look at that at this point to
9 see.

10 Q. Is there anything in the record?

11 A. I'd have to see what his temperature was
12 on that particular day. I don't recall that point
13 at the moment.

14 What was the date of the surgery?

15 MR. KWARCIAANY: 9-2.

16 A. 9-2, okay. There are a minimum number
17 of temperatures recorded on, at least on this
18 graphic sheet. On the 5th there's one at 8 p.m., a
19 temperature recorded. On the 6th there's an 8 o'clock
20 in the morning temperature, and then 8 p.m. is the
21 only other one taken, and that is elevated at 99
22 plus. And likewise, a 99 plus temperature recorded
23 on the 7th at 8 p.m., but because there is a
24 minimum number of recordings, the fact that there
25 is no recorded temperature at that point doesn't

1 eliminate the fact that a septic and potentially
2 serious febrile condition was of concern.

3 Q. Isn't a spiked fever a symptom of sepsis?

4 A. It can.

5 Q. Post-surgically?

6 A. It can be one of the signs, unless the
7 temperatures are taken at frequent enough intervals
8 particularly in a situation such as this where a
9 urinary tract infection or sepsis is possible.

10 These temperatures go up and go down very, very
11 quickly. And if you are not taking readings at
12 frequent enough intervals, they can be missed.

13 Q. Was Mr. DiMarco's temperature taken at
14 frequent enough intervals?

15 A. I would have to look at the specific
16 pages. The graph, as recorded by the secretary,
17 doesn't indicate, say, Q four hours, or every four
18 hour temperatures, so I would have to look that up.

19 If you would care to take the time, I can
20 look it up.

21 Q. I would like to move on. We can go back
22 to it. What I'm getting at is if, as you stated,
23 irrigating the bladder was an avenue for sepsis,
24 wouldn't a blood culture or blood serum culture be
25 necessary prior to the administration of Nebcin?

1 MR. BONEZZI: Objection.

2 A. Drawing a blood culture is only one way
3 to make that estimation. If the doctor wanted to
4 know what organism he had to deal with, then a
5 urine culture would be the most appropriate test to
6 obtain. The presence or absence of a positive
7 blood culture by itself does not rule in or rule
8 out sepsis. There are many instances where
9 patients are septic and have negative blood
10 cultures, particularly when they have been on
11 antibiotics, such as Mr. DiMarco.

12 Q. Is it your testimony that it wasn't
13 necessary for a blood culture under these
14 circumstances?

15 MR. BONEZZI: Objection.

16 A. What I am saying is that it was not
17 critical that a blood culture be obtained. The
18 most important culture to obtain in this setting
19 would be a urine culture. The blood culture is
20 over and above the urine culture.

21 Q. You're saying it wasn't critical. My
22 question is, are you saying it was not necessary?

23 MR. BONEZZI: Objection.

24 A. I'm saying in the context of the most
25 important culture to obtain, it was less important

1 then the urine culture.

2 Q. That still doesn't answer my question,
3 Dr. Lerner.

4 Was it necessary or not to do a blood
5 culture along with a urine culture prior to the
6 administration of Nebcin?

7 A. Was it absolutely necessary, no. It
8 wasn't absolutely necessary.

9 Q. And that's in light of the type of
10 patient and symptoms that Mr. DiMarco was
11 manifesting?

12 A. Correct.

13 Q. Was there anything significant in his
14 history that would have influenced the use or the
15 elimination of Nebcin as a broad-spectrum
16 antibiotic?

17 A. I am not sure I understand that. Is
18 there any contraindications to using it in this
19 patient?

20 Q. Yes.

21 A. No.

22 Q. Are you familiar with his history?

23 A. I know he had a stapedectomy in the past.

24 Q. Does this have any influence on whether
25 or not a doctor determines with a patient like,

1 with a patient like Mr. DiMarco the use of Nebcin?

2 A. No. It has no bearing on it.

3 Q. So the fact that we have a patient with
4 impaired hearing through a stapedectomy, and I
5 believe there was a wire in his ear, this does not
6 increase the risk of ototoxicity?

7 A. All I know from the charts that I
8 reviewed is that he had a stapedectomy. Now, a
9 simple stapedectomy, this interferes with bony
10 conduction in the hearing cycle and not with nerve
11 conduction. These drugs are, when they are toxic,
12 are toxic to the nervous structure of the auditory
13 apparatus and not to the bony structure.

14 Q. Do you know if he had a simple
15 stapedectomy?

16 A. I have no way of knowing. I didn't
17 review any details of that particular event.

18 Q. Do you think that Dr. Bernstein should
19 know this before he administers Nebcin?

20 MR. BONEZZI: Objection.

21 A. Should know that he had a stapedectomy?

22 Q. Yes, and whether it was complicated or
23 uncomplicated?

24 MR. BONEZZI: Objection.

25 A. Not necessarily.

1 Q. That is not necessary information for him
2 to have --

3 A. No.

4 Q. -- prior to the administration of Nebcin?

5 A. No. The critical thing was to get this
6 patient under cover of an effective broad-spectrum
7 antibiotic because of the potential risk for sepsis,
8 which is more, which is potentially life
9 threatening and a much greater concern than any
10 problems with ototoxicity at the point in time that
11 he initiated the therapy.

12 Q. Well, I want you to assume, at least for
13 this question, that the stapedectomy was
14 complicated. wouldn't there have been a safer
15 choice with less risk that Dr. Bernstein could have
16 used to avoid the ototoxicity rather than Nebcin?

17 MR. BONEZZI: Objection.

18 A. I would be willing to hear your
19 suggestions. I don't know of any safer choice
20 antibiotic that would guarantee that you were
21 covering the resistant bacteria that might have
22 been involved in this situation. The man had been
23 in the hospital for several days with a catheter in
24 his bladder, on antibiotics, and the risk of a
25 resistant organism getting into his system is the

✓
use
of

1 single most important consideration. It takes
2 precedence over everything else.

3 You have to save the patient's life
4 before you worry about the subtleties or possible
5 side effects of drugs.

6 Q. On page three, your last sentence, do you
7 not state, "Despite no objective evidence of
8 infection and/or sepsis," unquote.

9 Did I quote that correctly?

10 A. Yes.

11 Q. Now, I assume then when you make a
12 statement that there is a life-threatening
13 condition, there's nothing in the record to support
14 that?

15 MR. BONEZZI: Objection.

16 A. To repeat, I would repeat what I said
17 before. At the time that the antibiotic was
18 initiated, it was appropriate to do so and to
19 select this antibiotic. The fact that the cultures
20 subsequent did not establish or direct Dr.
21 Bernstein to a specific infection do not negate the
22 fact that the condition that led him to initiate
23 the therapy continued on. Namely, the persistant
24 bleeding, the presence of clots and the requirement
25 for repeated irrigation of the bladder.

1 it would have been stupid to stop the
2 antibiotic that he had started to cover this man
3 for the possibility of an infection, but he may
4 well have aborted the serious septic complication
5 by his very early administration of an antibiotic
6 to stop it and wait and see if he got into trouble
7 again. At that point in time it was more than
8 prudent. It was absolutely commendable to continue
9 the antibiotic while the condition that exposed
10 this man, the sepsis, continued on.

11 Q. You are basing that on the presence of
12 sepsis, despite your statement that there was no
13 objective evidence of sepsis; is that correct?

14 MR. BONEZZI: Objection.

15 A. I am saying that as clearly as I can,
16 that Dr. Bernstein initiated therapy with the
17 aminoglycoside because he was appropriately
18 concerned that his patient might become septic.
19 The fact that you are disappointed that he did not
20 become septic is your problem. The patient should
21 be grateful because Dr. Bernstein treated him in
22 exactly the ideal fashion and did not let him
23 become septic.

24 Q. What was the purpose of the use of Kefzol
25 and Keflex?

1 A. That is the appropriate initial
2 prophylactic antibiotic used in transurethral
3 resections in this community. Also to minimize the
4 risk of infection. However, the organisms covered
5 by Kefzol and Keflex are primarily the more
6 sensitive bacteria that initially take advantage of
7 a situation like this.

8 Once you've gone through what Mr. DiMarco
9 went through, which is several days of antibiotics,
10 irrigation and bleeding, at that point in time the
11 sensitive organisms, which are covered by the
12 cephalosporins, Kefzol and Keflex, are no longer
13 the only organisms you have to worry about. You
14 have to worry about organisms such as Pseudomonas,
15 P-s-e-u-d-o-m-o-n-a-s, Serratia, S-e-r-r-a-t-i-a,
16 Enterobacter, E-n-t-e-r-o-b-a-c-t-e-r, Acetobacter,
17 A-c-e-t-o-b-a-c-t-e-r, Citrobacter,
18 C-i-t-r-o-b-a-c-t-e-r, and I can go on and on.

19 These are resistant organisms found in a
20 hospital setting that are extremely serious. And
21 the only antibiotic that is uniformly affective
22 against the vast majority of these organisms are
23 aminoglycosides, of which Nebcin is a representative.

24 Q. Ana I think your report to Mr. Kwarciany
25 says that this particular aminoglycoside, Nebcin,

1 Does have a risk of ototoxicity?

2 A. All aminoglycosides do.

3 Q. In regard to the various bacteria that
4 you've discussed, could not these be detected
5 through a blood culture?

6 A. If they were present in the blood, they
7 might grow.

8 Q. Were they present in the urine culture?

9 A. The urine culture submitted at the time
10 the aminoglycosides were initiated did not grow any
11 organism.

12 Q. How about prior to the initiation of the
13 aminoglycosides?

14 A. I would have to check those urine
15 cultures. I don't recall. As far as I know, he
16 did not have any positive cultures.

17 Q. What I am getting at, wouldn't taking a
18 blood culture prior to the use of Nebcin have aided
19 Dr. Bernstein in determining the antibiotic without
20 necessarily using Nebcin?

21 A. Not necessarily. It might have given him
22 an opportunity to recognize an organism in a
23 patient who was about to become septic. But as I
24 stated before, a person can be septic with a
25 negative blood culture,

1 Q. Well, I think you used the term, it was
2 used as a prophylactic or to cover the danger or
3 the possibility of sepsis; is that correct?

4 A. It was initiated at a time when the
5 patient was complaining of symptoms and signs that
6 were suggestive of the possibility of an early
7 sepsis.

8 The fact that the urine culture obtained
9 at that time did not grow an organism does not rule
10 out or negate that original impression. There
11 could have been enough antibiotic on board from the
12 Keflex to suppress or delay the growth of the
13 organism in the urine culture. It could have been
14 one of these bacteria that I mentioned to you and
15 it could have been suppressed, but not eradicated,
16 depending on how the specimen was handled and held
17 by the laboratory at Marymount, how many hours it
18 remained in the lab, whether it was discarded after
19 12 hours or 36 hours, none of which is known to me.

20 These are possible reasons for the urine
21 culture to have been reported at no growth. It
22 doesn't mean there wasn't an organism in there.
23 They reported no growth. I don't know what their
24 cut-off point is for organisms. They may have had
25 10 to 30,000 per LM and in their lab they may call

1 that a negative culture. Other labs report 10 to
2 30,000 and will identify the organism, depending on
3 the procedure in a given lab.

4 So the fact that they reported a negative
5 culture has to be taken into account on how they
6 handle their cultures, how they handled this
7 particular culture.

8 Q. What I am interested in, you mentioned
9 the signs and symptoms of possible early sepsis,
10 what are they or what were they here in this case
11 with Mr. DiMarco? ✓

12 A. He had absolutely nothing objective. He ✓
13 had a very important subjective complaint.

14 Q. What was that?

15 A. He felt cold and shaky. And that can be
16 the very earliest sign of endotoxin shock. The
17 gram-negative bacteria that are involved in these
18 types of infections, and there are many, they are
19 almost all in the gram-negative category, have in
20 their cell walls a substance called endotoxin.
21 This is a poison which causes many things to happen
22 when it is released into the blood stream. The
23 major circumstance is shock and kidney shut down
24 and then a whole variety of other tissue events.
25 The optimal time and the only time to alter the

1 course of urinary induced endotoxin shock is before
2 the patient goes into shock.

3 All studies in the past 30 or 40 years of
4 endotoxin shock point to the fact that the only
5 time we influence the mortality of this disease is
6 before the patient has gone into shock and renal
7 shut down. And the earliest sign when it is
8 present is hypotension, but even that may not be
9 necessarily present at the time the patient first
10 begins to complain. Something that should not be
11 occurring at that point in time, a small amount of
12 endotoxin could well have accounted for the
13 complaints that the patient gave at that point in
14 time.

15 And at that point in time it was
16 mandatory that aggressive treatment be undertaken,
17 aggressive and appropriate treatment be undertaken.
18 You can't afford to be wrong, because if you give
19 the wrong antibiotic, the patient can be dead
20 before the results come back from the lab the next
21 day.

22 Q. All right. in light of the use and in
23 light of the risk of Nebcin, and particularly your
24 comment about aggressive treatment, don't you think
25 that the peak and trough blood serum levels were

1 necessary?

2 A. Absolutely not. ✓

3 Q. What is the basis for your opinion?

4 A. The monitoring of aminoglycoside therapy
5 is directed at minimizing toxicity. You cannot
6 prevent toxicity from occurring because these drugs
7 are toxic to certain cells in the body. The serum
8 levels reflect only serum levels. The kidney and
9 the ear are targets of excess concentration by

1 these drugs. The most rigorously controlled
2 studies demonstrate that the peak and trough levels
3 are related primarily to efficacy and avoidance of
4 toxicity in a short course such as Mr. DiMarco
5 received.

6 In a patient who is under the age of 60,
7 who has no renal disease as evidenced, no kidney
8 excretory problem as evidenced by his serum
9 creatinine, it has been shown conclusively that the
10 excretion of the aminoglycoside is reflected by the
11 level of the serum creatinine in the body and that
12 monitoring the serum creatinine in a patient who is
13 receiving a short course, that is less than ten
14 days of antibiotic therapy, is appropriate. And
15 that is the standard in this community.

16 If you are giving the drug to someone who

1 is over 65 years of age, has changing renal
2 function or an abnormal creatinine level to begin
3 with, then it is mandatory to monitor serum levels
4 for toxicity purposes only. And in that instance
5 the primary level that should be monitored is a
6 trough level, not the peak.

7 Q. You keep mentioning renal or kidney
8 toxicity. In fact, what we're concerned with in
9 Mr. DiMarco's case is the ototoxicity risk, aren't
10 we?

11 A. That is the manifestation of toxicity
12 here. But the fact of the matter is that the
13 patient must be able to excrete the aminoglycoside
14 that has accumulated in his kidney and in the
15 specific target cells in the auditory apparatus
16 once you stop giving him the drug, because that is
17 the circumstance that will determine toxicity or
18 not.

19 If the patient's renal function has been
20 impaired by the drug at the time you stop the
21 medication, then even though you've stopped the
22 medication there will be continuing damage to these
23 susceptible target cells, because the drug cannot
24 be excreted from the body. So that the primary and
25 most important aspect of monitoring this therapy is

1 to monitor the kidney's ability to excrete the drug

2 Q. I want to back up a little bit. In
3 regard to the history for the stapedectomy that

4 Mr. DiCarco underwent, don't you recall that a
5 small ~~w~~ a tiny wire was left in the middle ear?

6 A. I did not review any records relative to
7 the stapedectomy. All I have is the statement in
8 this chart that he had had a prior stapedectomy.

9 Q. Did you review the nurse clinician's
10 notes that were prepared for Dr. Bernstein which is
11 part of the record?

12 A. If it's in the hospital record, I may or
13 may not have looked at it. I don't recall.

14 Q. Would you be concerned if the
15 stapedectomy was complicated because this tiny wire
16 that was left in his ear had moved or shifted a
17 fraction to the point where the hearing aid was no
18 longer effective?

19 MR. BONEZZI: Objection.

20 A. I don't know how I'm qualified to comment
21 on something that I haven't reviewed.

22 Q. If you were Dr. Bernstein, wouldn't you
23 want to know that before you administered Nebcin?

24 MR. BONEZZI: Objection.

25 A. I would want to know what the status of

1 the patient's hearing was at the time I
2 administered the drug, and I would want to know
3 what the status of his kidney function was at the
4 time I administered the drug. And unless the
5 patient said something to suggest that there was a
6 hearing problem over and above problems related to
7 the necessity to perform a stapedectomy, I would
8 not be concerned.

9 A hearing aid improves hearing only in
10 patients who have a bony conduction problem. It
11 does not alter or influence the hearing of a
12 patient who has a nerve associated problem as far
13 as the hearing is concerned. So whether the shift
14 of the wire had taken place or not, it would not be
15 relevant to the administration of this drug.

16 If the patient mentioned things that
17 suggested he might have a nerve problem in
18 relationship to hearing, that's a different story.

19 Q. In regard to the nerve problem or the
20 vestibular damage, I understand that this comes
21 about through some damage to the eighth nerve; is
22 that correct?

23 A. A portion of the eighth nerve.

24 Q. There is a -- I am now referring to
25 Dr. Hanus' letter. Did you review the appendix

1 attached to a letter by Dr. Manus, h-a-n-u-s, in
2 regard to clinical consideration of ototoxicity?

3 A. I don't believe I did.

4 Q. I'm going to quote from this reference.

5 "The following recommendations should prove useful
6 in preventing or eliminating ototoxicity due to
7 aminoglycosides: Reduce or discontinue
8 aminoglycosides if the patient develops evidence of
9 renal or eighth nerve dysfunction." Do you agree
10 with that statement?

11 A. No, I don't agree with that statement,
12 because that statement is self-contradictory.

13 Q. Did you read Mr. DiMarco's deposition?

14 A. I don't recall. I don't think so.

15 Q. Are there tests that can be administered
16 to a patient like Mr. DiMarco to determine whether
17 there is eighth nerve dysfunction while undergoing
18 the administration of Nebcin?

19 MR. BONEZZI: Objection.

20 A. There are tests.

21 Q. (BY MR. COTICCHIA) Were there any done
22 in his case?

23 MR. BONEZZI: Objection.

24 A. No, there were not.

25 Q. In light of the risk of ototoxicity,

1 don't you think they should have been done?

2 MR. BONEZZI: Objection.

3 A. Absolutely not. It's not the standard in
4 the community.

5 Q. Do you agree with the statement that it
6 is necessary to assess auditory and vestibular
7 function, clinical or laboratory, before, during
8 and following therapy especially in high-risk
9 patients?

10 MR. BONEZZI: If you're
11 reading from something, why don't you show to him
12 what you are reading so that he can go along with
13 you.

14 MR. COTICCHIA: There's a copy
15 of it in your records. It's attached --

16 MR. BONEZZI: We were looking
17 for it. We don't have it.

18 MR. COTICCHIA: Well, it's the
19 only one I have right now and I am quoting verbatim.

20 MR. BONEZZI: Could you read
21 that back, please.

22 (Notary read back as requested.)

23 A. I would agree to a certain degree in ★
24 high-risk patients. I do not agree with the first
25 part of the statement. It is impractical and it is

1 simply not the standard of practice.

2 Q. Is there a risk of ototoxicity in the use
3 of Keizol and Keiflex?

4 A. No.

5 Q. Don't most, if not all, broad-spectrum
6 antibiotics cause the white blood cell count to go
7 down?

8 A. You mean go down to abnormally low levels?

9 Q. No. When it would be above normal.

10 A. You mean to return to normal?

11 Q. Yes.

12 A. That's a question that's not really a
13 question. Because an appropriate antibiotic, if I
14 can rephrase it -- any antibiotic that is
15 appropriate to the infection being treated can
16 cause the white blood count to return to normal if
17 the infection subsides.

18 Q. Again, in relation to the white blood
19 count, wouldn't taking a blood culture prior to the
20 use of Nebcin have aided Dr. Bernstein in
21 determining whether or not to use a high-risk
22 ototoxic drug like Nebcin?

23 MR. BONEZZI: Objection.

24 A. if the blood culture had been positive,
25 it would have reenforced his selection, if it were

1 negative -- by itself a negative blood culture
2 would not have changed the basic problem that was
3 present in this situation, which was the continuing
4 risk of the introduction of infection because of
5 the bleeding and irrigation.

6 Q. (BY MR. COTICCHIA) On page three,
7 Dr. Lerner, the first paragraph, let's see, eight
8 lines down, I quote your statement, "Critically ill
9 patients frequently undergo base line auditory
10 testing before" --

11 A. I believe it says "cannot undergo."

12 Q. I'm sorry. I'm sorry. "Critically ill
13 patients frequently cannot undergo base line
14 auditory testing before receiving aminoglycosides."
15 In Mr. DiMarco's case, could he have undergone
16 auditory testing?

17 A. I wouldn't have waited for auditory
18 testing in this patient.

19 Q. Why would a doctor or why would you make
20 a statement like that; why are you interested in
21 auditory testing?

22 MR. BONEZZI: Objection.

23 a. ?'ne statement is made in the context of
24 an explanation to Mr. Kwarciany, which explains --
25 I obviously intended it for you as well -- which is

1 part of a three-page orientation to the
2 pharmacology and toxicity and clinical realities of
3 the use of aminoglycosides. I do not begin to
4 discuss the case itself until the bottom of the
5 third page.

6 The statement which you have just read is
7 a statement that I made in the course of outlining
8 the complex question that we're talking about. And
9 the statement was made in relationship to my
10 describing the incidence of ototoxicity as reported
11 in the literature and the problems in investigating
12 this in patients in the hospital who are ill and in
13 need of immediate therapy. And that's why the
14 statement was made. It was not made in
15 relationship specifically to Mr. DiMarco's case.
16 And I will not answer any questions that are
17 attempts to take things out of the context of which
18 I phrase them.

19 Q. In regard to Mr. DiMarco, we know before
20 his hospital admission that he has an auditory
21 problem?

22 A. You know that. I do not know that. I
23 know that he's had a stapedectomy and he wears a
24 hearing aid.

25 Q. You don't consider that an auditory

1 problem?

2 A. I don't know the extent of the problem.

3 Q. Wouldn't you want to know that if you're
4 Dr. Bernstein?

5 MR. BONEZZI: Objection.

6 A. The only thing I would want to know is
7 whether or not the man had a contraindication to
8 the use of aminoglycosides.

9 Q. ~~Therefore,~~ you would like to know whether
10 or not there is a pre-existing auditory problem?

11 A. I would like to know if there is a
12 pre-existing contraindication to the use of
13 aminoglycosides. There are auditory problems
14 related to the bony conduction apparatus of the ear,
15 which would not in any way be a contraindication to
16 the use of aminoglycosides.

17 Q. Is discussing the risk of ototoxicity
18 damage to the labyrinths a standard of care prior
19 to administering Nebcin to Mr. DiMarco?

20 MR. BONEZZI: Objection.

21 A. Do you mean should one ask a patient if
22 they have any labyrinthine disease before you
23 administer aminoglycosides?

24 Q. No. That's not my question.

25 MR. COTICCHIA: Would you repeat

1 the question, please.

2 (Notary read back as requested.)

3 MR. BONEZZI: Objection.

4 A. It's not a question. You're asking me is
5 something a standard of care and then you are
6 asking me about Mr. DiMarco.

7 Q. You've discussed at length in the first
8 couple of pages the tendency of kidney damage or
9 damage to the labyrinths, or the vestibular damage,
10 as you call them, in the use of aminoglycosides,
11 correct?

12 A. Correct.

13 Q. Don't you think that prior to the use of
14 Nebcin Dr. Bernstein should have discussed this
15 risk with Mr. DiMarco?

16 MR. BONEZZI: Objection.
17 We're talking about a urologist and we're talking
18 about an individual who practices in infectious
19 diseases, and what you are attempting to do is to
20 go ahead and ask this witness to set the standard
21 of care in another discipline. I object to the
22 form of the question.

23 Q. (BY MR. COTICCHIA) Are you qualified to
24 answer that question, Dr. Lerner?

25 A. I am qualified to tell you what the

1 standard of care is for the administration of
2 aminoglycosides in critical situations.

3 Q. will you please tell me.

4 A. The single overwhelming major
5 consideration is whether or not the patient is
6 going to be able to excrete the dose of
7 aminoglycoside that you give them. ✓

8 If a patient has the normal creatinine,
9 the normal renal function, you can initiate therapy
10 and monitor the kidney function. As I stated
11 before, the critical nature of sepsis and heading
12 it off before it gets out of control takes
13 precedence over everything else.

14 There are no toxicities associated with
15 the use of short courses of aminoglycosides. So
16 that one can always initiate an aminoglycoside
17 under any situation, the dose being chosen, based
18 on the patient's ability to excrete the drug. Even
19 in 90 year old people whose kidneys are functioning
20 at 10 percent of normal, if sepsis is your concern,
21 you begin treating with an aminoglycoside. You
22 load the patient up with one dose and you give a
23 second dose, and even if that patient is not making
24 any urine, you initiate your therapy and you modify
25 your dose according to what supervenes after that

1 point: how much drug the patient is able to get
2 rid of on his own; what the serum levels show you;
3 since the patient has abnormal renal function, what
4 the kidney output is. You monitor the dose
5 according to the subsequent course of events.

6 And that's exactly what was done in this
7 case. The drug was initiated in a very
8 appropriate dose, the minimally effective dose
9 appropriate for urinary tract infections, and it
10 was monitored by frequent determinations of the
11 serum creatinine to assure that the patient could
12 excrete the drug when it was stopped.

13 Q. Number one, let's talk about two things,
14 the risk and the warning, and then your comment
15 about monitoring the serum levels. Isn't there a
16 warning in the Physicians' Desk Reference about
17 ototoxicity in the use of aminoglycosides?

18 A. There certainly is.

19 Shouldn't this have been discussed with

20 Mr. Dimarco by Dr. Bernstein?

21 MR. BONBZZI: Objection.

22 A. Absolutely not necessary.

23 Q. Secondly, you commented about monitoring
24 through serum levels, but I think we both agree
25 that there were no blood serum monitoring, was

1 there?

2 A. I gave an example in which, an extreme
3 example, in which even an elderly patient who had
4 abnormal or depleted kidney function would be a
5 candidate for the initiation of aminoglycoside
6 therapy in a life-threatening situation. I gave
7 you an example in which it would be not only
8 appropriate, but it would be necessary to monitor
9 the serum levels of the drug.

10 Q. Let's go to page four, the last paragraph.

11 A. I'm sorry. What page?

12 Q. Page four, the last paragraph of your
13 report.

14 A. Okay.

15 Q. You made some comments about
16 Dr. Proctor's report. I'd say in six or eight
17 lines down you start a sentence right on the margin,
18 "Furthermore, he fails to comment on the most
19 unusual occurrence in this particular case of
20 apparently total vestibular destruction." Did I
21 quote that correctly, Dr. Lerner?

22 A. Correct.

23 Q. Would you please, for your own reference,
24 take a copy of Dr. Proctor's letter of February
25 26th, 1985.

1 do you have a copy?

2 A. Yes, I do.

3 Q. Under the heading "Case Discussion,"
4 would you read the first sentence, please.

5 MR. BONEZZI: I'm going to
6 object. It speaks for itself. You have a copy of
7 it and so does Dr. Lerner. What is it that you
8 want to know from that first sentence?

9 Q. (BY MR. COTICCHIA) would you read the
10 first sentence.

11 MR. BONEZZI: No. I am not
12 going to have him read it. He has got it in front
13 of him, you have got it in front of you. There is
14 no necessity to read something that is obvious to
15 the both of you. That document speaks for itself
16 as does yours.

17 Q. (BY MR. COTICCHIA) Doesn't the first
18 sentence state, "This case involves two separate
19 questions. First, was Tobramycin administration
20 responsible for the loss of vestibular function"?

21 A. Now, what are you asking me? is that
22 what the sentence says?

23 Q. Isn't that what the sentence says?

24 A. Yes, that's what it says,

25 MR. BONEZZI: Objection.

1 A. It's a question. It's not a sentence.

2 Q. Well, doesn't he, in fact, comment upon
3 the vestibular destruction?

4 A. No. That's not what my sentence says.

5 Q. Well, will you tell me the difference
6 between vestibular destruction and/or loss of
7 vestibular function?

8 A. He is not commenting on it, he's asking.
9 He makes a statement in the paragraph above that,
10 "Subsequent work-up by an ENT specialist showed
11 complete absence of vestibular function. That's
12 not a comment on his part. He is simply restating,
13 and then he is asking a question. He is not
14 commenting on what I am asking him to comment on,
15 which is why did this man who received such a short
16 course of an appropriate dose of an aminoglycoside
17 develop such a complete vestibular dysfunction. I
18 don't see where he's discussing it.

19 Q. Okay. That answers my question.

20 How much do you charge for your testimony
21 as a medical expert witness?

22 A. Between 150 and \$200 an hour.

23 Q. Well, what do you determine as 150 and
24 what determines \$200?

25 A. It depends on how much I am

1 inconvenienced.

2 Q. I hope we haven't inconvenienced you too
3 much.

4 MR. COTICCHIA: I don't have any
5 more questions. I'm going to order a transcript of
6 this and it doesn't matter or not whether you care
7 to waive signature.

8 MR. BONEZZI: He doesn't.

9 - - -

10 (Deposition concluded at 4:40 p.m.)

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1 SHE STATE OF OHIO,)
2 COUNTY OF CUYAHOGA.)

) SS: CECELIE COYLE

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

18 IN WITNESS WHEREOF, I hereunto set my hand and
19 seal of office at Cleveland, Ohio, this 25th day of
20 September, 1986.

21 *Marguerite A. Sandly*
22 Marguerite A. Sandly, RPR/CM and Notary
23 Public within and for the State of Ohio
 540 Terminal Tower
 Cleveland, Ohio 44113

24 My Commission Expires: October 30, 1989.