

ORIGINAL

1

IN THE COURT OF COMMON PLEAS
STARK COUNTY, OHIO

STEPHAN GERMANOFF,
Etc.,

Plaintiff,

vs.

Case No.

AULTMAN HOSPITAL,
et al.,

2000CVO1475

Defendants.

- - - - -

The Deposition of NORMAN
SCHNEIDERMAN, M.D., Witness herein,
called by the Plaintiff for
cross-examination pursuant to the Rules
of Civil Procedure, taken before me,
Beverly W. Dillman, a Notary Public in
and for the State of Ohio, at Miami
Valley Hospital, One Wyoming Street,
Dayton, Ohio, on Thursday, July 5, 2001,
at 1:58 o'clock p.m.

- - - - -

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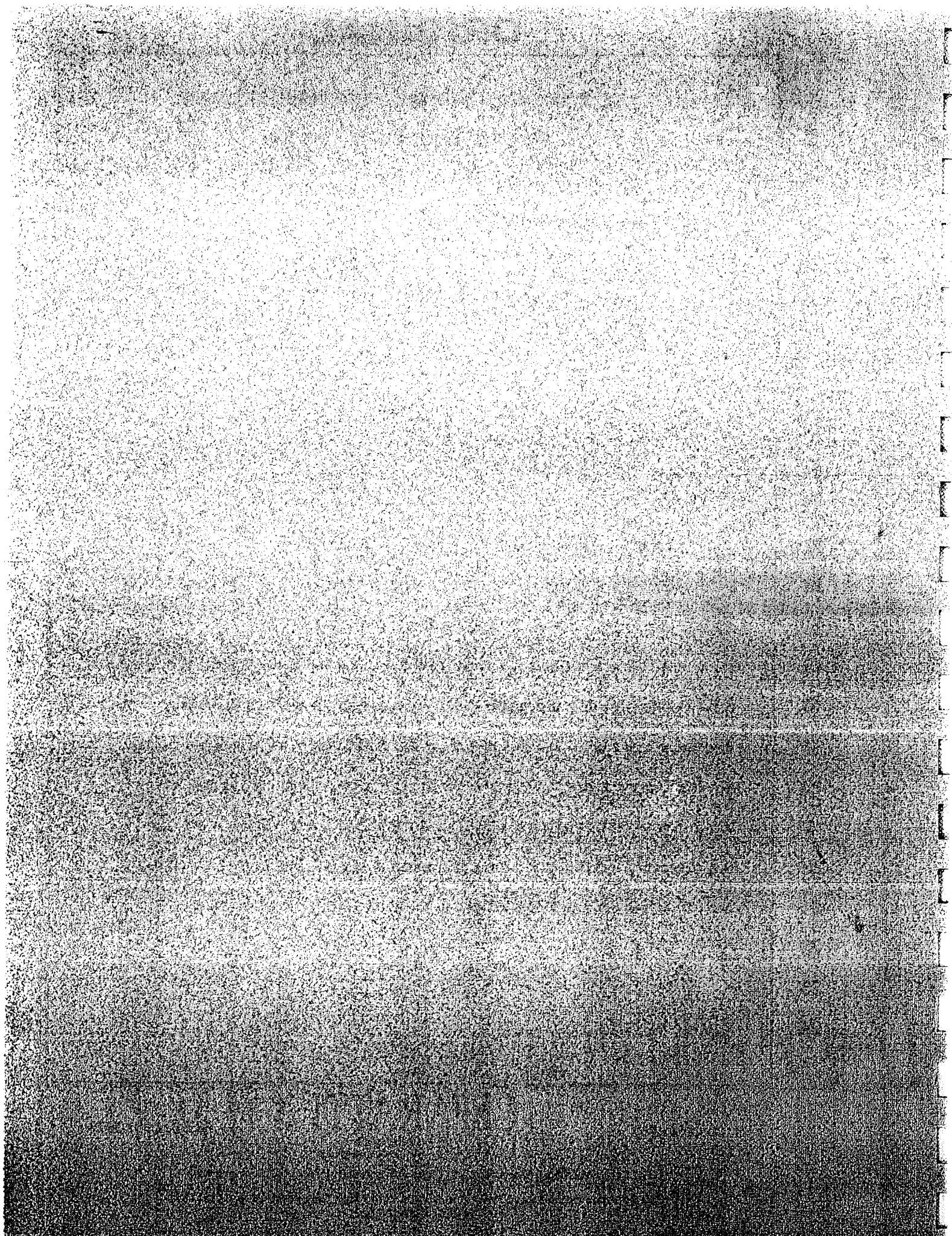
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1 APPEARANCES:

2
3 On behalf of the Plaintiff
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12 On behalf of the Defendant
13 Aultman Hospital:
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15 Kyhos & Erwin, L.L.P. by,
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1 On behalf of the Defendant M. W.
2 Hatcher, M.D., and Canton Aultman
3 Emergency Physicians:
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13 On behalf of the Defendant Stacey
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Page 3

1 On behalf of the Defendant
2 Ginger Hamrick, M.D.:
3 Bonezzi, Switzer, Murphy
4 & Polito Co., L.P.A. by,
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24
25

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1 NORMAN SCHNEIDERMAN,
2 M.D. of lawful age, Witness herein,
3 having been first duly cautioned and
4 sworn, as hereinafter certified, was
5 examined and said as follows:
6 CROSS-EXAMINATION OF
7 NORMAN SCHNEIDERMAN, M.D.
8 BY-MS. MATTHEWS:
9 Q. Hi, Doctor. I am Laurel
10 Matthews. We met once before --
11 A. Hi. We did. Hi.
12 Q. -- It now dawns on me. Nice
13 to see you again.
14 Could you state your full
15 name for the record, please.
16 A. Dr. Norman Schneiderman.
17 Q. Great. Well, as you know, I
18 have a series of questions for you. I
19 would just ask if you don't understand
20 one of my questions that you let me
21 know, okay?
22 A. Certainly.
23 Q. Is it reasonable for me to
24 assume that if you answer one of my
25 questions, you understood it?

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1 A. I think that's reasonable.
2 MS. ATWELL: I just want
3 to butt in, and then I will shut up.
4 Laurel, you're extremely clear. The
5 doctor is a little fainter. If you
6 could angle the phone, anyone?
7 THE WITNESS: Yeah, I was
8 leaning back, so I will sit closer.
9 MS. ATWELL: Okay. Thank
10 you very much.
11 MR. KREMER: And this is
12 Stefan, and I won't butt in again
13 either, Laurel, but since there is a
14 couple of us by phone, can we all agree
15 that if there is an objection by one
16 attorney, it counts as an objection by
17 all defense counsel?
18 MS. MATTHEWS: That's fine
19 with me.
20 MR. STRONG: Well, maybe
21 Laurel will give us a continuing
22 objection to the whole deposition, like
23 Chuck did.
24 MS. MATTHEWS: Yeah, I
25 will, if you want one.

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1 MR. KREMER: The only
2 thing I am concerned about is if an
3 objection doesn't come across on the
4 phone, that's all.
5 MS. MATTHEWS: We will
6 consider you phone people as joining
7 everything; all right? Is that fair?
8 MR. KREMER: Thankyou,
9 Laurel.
10 BY MS. MATTHEWS:
11 Q. Doctor, could you please
12 state your address for the record.
13 A. My address here today is
14 Miami Valley Hospital, One Wyoming
15 Street, Dayton, Ohio 45409.
16 Q. All right. Now, before the
17 deposition started I was informed that
18 you don't have your file with you;
19 correct?
20 A. Yeah. I don't keep my file
21 here when I am reviewing it. It's at
22 my home.
23 Q. All right. Mr. Switzer did
24 give me a chance to look at the
25 materials he sent you and the

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1 correspondence that he sent you, so I am
2 just going to mark two things, if I
3 may. They will be the only exhibits, 1
4 and 2.
5 -----
6 (Thereupon, Deposition
7 Exhibit-1thru2 were
8 marked for purposes
9 of identification.)
10 -----
11 BY MS. MATTHEWS:
12 Q. Oh, I am sorry. Could you
13 just identify these for the record,
14 please.
15 A. Yes. One is a letter from
16 Mr. Switzer, dated April 11th, and it
17 talks about the trial date, etcetera.
18 And the other is a bill that I sent,
19 which is dated April 15th.
20 Q. And that's the date of your
21 first report; correct?
22 A. That was the date -- it
23 probably came around the date of my
24 first report, yeah.
25 (Examining document.)

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1 Yes, it's the date of the
2 first report, correct.
3 Q. Am I correct, included in
4 your bill, the date of the first report,
5 is three hours to review the chart and
6 the deposition of Dr. Hamrick?
7 A. Yeah. Three hours to review
8 chart, deposition of Dr. Hamrick, that
9 is correct, and a conference call.
10 Q. So it's reasonable to assume
11 then that prior to preparing your first
12 letter you read the chart and Dr.
13 Hamrick's deposition?
14 A. That is probably true.
15 Q. At some point you prepared a
16 second letter; correct?
17 A. That is correct.
18 Q. What did you read, prior to
19 the second letter, that you hadn't read
20 before the first?
21 A. Well, I can't tell you
22 exactly, but there may have been some
23 additional depositions and perhaps the
24 path report. I can't tell you if I saw
25 the path report with the first chart.

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1 Q. Were you sent Dr. Waller's
2 expert report?
3 A. No, because I have never
4 seen Dr. Waller's expert report.
5 MS. MATTHEWS: Is there a
6 transmittal letter indicating when you
7 sent the autopsy report?
8 MR. SWITZER:
9 (Indicating.) Look on the first letter.
10 Is it on the first letter?
11 MS. MATTHEWS: Oh, yeah, I
12 am also enclosing the autopsy report.
13 THE WITNESS: Okay, so
14 then I must have had the autopsy report,
15 so that was not additional information.
16 But I do remember there
17 was some additional information that I
18 reviewed because I remember I was out of
19 town when I reviewed it. And I can't
20 tell you what it was, but it may have
21 been some additional depositions, I
22 don't know, maybe Dr. Hatcher's
23 deposition? It wasn't the cardiologists'
24 depositions because I know I read those
25 later. But I can't tell you exactly,

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1 but there was some additional
2 information.
3 BY MS. MATTHEWS:
4 Q. You're sure of that?
5 A. Oh, I'm quite sure.
6 Q. Okay. You say in your
7 second letter that these opinions
8 occurred to you after reviewing Dr.
9 Hamrick's and Mrs. Germanoff's
10 admissions just prior to her death.
11 That's not accurate, is it, because you
12 had already reviewed those?
13 A. I probably reviewed those,
14 but I may have re-reviewed those, having
15 gotten more information, and I
16 formulated some additional opinions.
17 Q. Do you recall if you had a
18 conversation with Mr. Switzer between
19 the two expert letters that may have
20 assisted you in having an additional
21 opinion?
22 A. I don't think that was it.
23 I don't recall that.
24 Q. And you have never seen Dr.
25 Waller's report?

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1 A. No, I have not.
2 Q. Have you seen any other
3 expert reports, other than the
4 plaintiff's experts?
5 A. I have reviewed the two
6 cardiologists' who are involved, and I
7 have reviewed more recently the
8 deposition from the husband of Ms.
9 Germanoff. I believe that's it.
10 Q. Okay. No other expert
11 reports?
12 A. No. I have had -- there are
13 two letters from the plaintiff experts,
14 but not their depositions,
15 Q. Okay. And no expert letters
16 from defense experts?
17 A. No.
18 Q. All right. Well, just -- do
19 you know who Dr. Waller is?
20 A. It seems to me I have heard
21 his name, and he may be a pathologist?
22 Not sure.
23 Q. All right. If Dr. Waller
24 said in his report that the troponin and
25 myoglobin levels done between 12-16 and

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1 12-18 were all abnormal, would you agree
2 with him?
3 A. Between 12-16 and 12-18 were
4 all abnormal? No, I would disagree with
5 him on that.
6 Q. Would you agree or disagree
7 if he said that the presence of
8 continued chest pain and suspicious
9 enzymes from 12-16 to 12-18 mandated a
10 cardiac cath?
11 A. I would -- I would not
12 necessarily agree with that but I would
13 say that I am not a cardiologist.
14 Q. So you don't have an opinion
15 one way or another as to whether, based
16 on the enzyme changes, Connie Germanoff
17 should have had a cardiac cath when she
18 was admitted to the hospital?
19 A. I would not make a
20 statement -- yeah, I am not a
21 cardiologist. I am not in a position
22 to judge that.
23 Q. Would you agree that cardiac
24 cath is the gold standard for the
25 diagnosis of coronary artery disease?

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1 A I would -- I don't like to
2 use the word gold standard. I would
3 say that it is the best test we have.
4 But that's not to say it's a gold
5 standard.
6 Q It's a better test than
7 anything else available?
8 A I think it is, yes.
9 Q Would you agree with Dr.
10 Kamen, the cardiologist who -- one of
11 the cardiologists who treated Connie
12 Germanoff, that even in the best series,
13 10 percent of patients with coronary
14 artery disease can be missed by an
15 adenosine stress test?
16 A That's my understanding, that
17 there is about 90 percent accuracy.
18 Q And that's something you
19 would expect an ER doctor, who practices
20 emergency medicine, to be aware of?
21 A I think an ER doctor would
22 know that it's not a hundred percent.
23 Q And I take it an ER doctor
24 should know that you can't rely on a
25 negative adenosine stress test in the

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1 presence of continued symptoms since
2 it's not a hundred percent?
3 A I think as an ER doctor I
4 would say that you can't rely on a
5 cardiac cath a hundred percent.
6 Q Therefore, you have to always
7 consider coronary artery disease in
8 somebody with symptoms suggestive of
9 coronary artery disease?
10 A Always consider it and put
11 it on your differential at some level.
12 Q Would you agree that
13 adenosine stress tests are particularly
14 unreliable in women?
15 A No. That's not my
16 understanding.
17 Q If Dr. Waller said that the
18 failure to perform a cardiac cath on
19 12-18, before discharging Connie
20 Germanoff, was below the standard of
21 care and lead directly to Connie
22 Germanoff's death, would you agree or
23 disagree with that?
24 MR. STRONG: Objection.
25 THE WITNESS: I would not

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1 have an opinion since I am not a
2 cardiologist.
3 BY MS. MATTHEWS:
4 Q Would you agree with me that
5 Connie had multiple cardiac risk
6 factors?
7 A Yes.
8 Q Would you agree they are
9 well set out in the medical record?
10 A Yes.
11 Q Would you agree with me if
12 someone reviewed the medical record they
13 would be aware of all her cardiac risk
14 factors?
15 A I wouldn't say all of them,
16 but they would be aware that she had
17 risk factors.
18 Q Feel free to look at any
19 records you want, Doctor.
20 A I will, surely.
21 Q Would you agree with me,
22 when Connie presented to the emergency
23 room on December 20th, her presentation
24 raised the suspicion that she could have
25 cardiac chest pain?

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1 A On the 20th, this is when
2 Dr. Hatcher saw her?
3 Q Correct.
4 A That she could have cardiac
5 chest pain, yes, I think that that was
6 possible, yes.
7 Q In fact, that's something Dr.
8 Hatcher considered; correct?
9 A I believe he did because he
10 did EKG and enzymes.
11 Q And the symptoms she was
12 having were that she was clenching her
13 chest, she had midsternal chest pain
14 radiating down the arm, and she vomited
15 twice in the emergency room; correct?
16 A I don't remember the
17 vomiting, but that's possible.
18 Q I think you will find it in
19 the nurses' notes, if you would like --
20 A I wouldn't -- it wouldn't
21 surprise me necessarily. I know she, on
22 previous times, had vomited.
23 Q Would you agree those are
24 fairly typical symptoms in someone
25 presenting with cardiac chest pain?

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1 A I think they are -- they can
2 be consistent with chest -- with cardiac
3 chest pain, as well as being consistent
4 with other diagnoses.
5 Q. Right. But would you
6 consider those typical symptoms, as
7 opposed to atypical symptoms?
8 A. I would consider them to be
9 typical for a cardiac chest pain, as
10 they are also typical for GERD, as they
11 are also typical for gallbladder
12 disease.
13 Q. And that's the -- the issue
14 when people come in with symptoms like
15 that is the differential; correct?
16 A. Yes, that is the issue.
17 Q. And I think we already
18 covered this, Dr. Hatcher thought she
19 might be having an MI because he wrote
20 an order for MI panel?
21 A. I think that when he first
22 saw her, which is when he writes these
23 initial orders, I think that that was in
24 his differential.
25 Q. Right. And that's why -- I

Page 20

1 Q. Would you agree that the
2 results of the MI panel done on the
3 20th of December were not normal?
4 A. That what was not normal?
5 Q. The MI panel.
6 A. That the MI panel was not
7 normal? That's probably technically
8 correct, but I believe that by the same
9 token the MI panel was not abnormal,
10 Q. Well --
11 A. At least not meaningfully
12 abnormal. For example --
13 Q. Uh-huh.
14 A. -- the myoglobin level, in
15 my opinion, is a totally worthless test
16 which we don't put on our MI panel.
17 Are you okay?
18 Q. Uh-huh.
19 A. Oh, okay,
20 . And I think most hospitals
21 don't because it's, unfortunately, too
22 nonspecific a test. That's one example
23 of why I responded to you the way I
24 did.
25 Q. Okay. Well, let me just ask

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1 mean, he was suspicious enough to order
2 an MI panel; correct?
3 A. Yes.
4 Q. And what is your
5 understanding of what an MI panel
6 consists of?
7 A. The MI panel is not a
8 universal panel throughout the United
9 States. The MI panel at this hospital
10 includes CPK, and then CPK-MB, if the
11 CPK is elevated, a troponin and a
12 myoglobin. That's the panel I believe
13 at Aultman Hospital.
14 Q. And so she had all of those
15 things; correct?
16 A. I believe she had all those
17 things done, yes,
18 Q. Were you aware there is a
19 chest pain unit at Aultman?
20 A. Yes, I became aware of that
21 as I read through depositions.
22 Q. Would you agree that a
23 patient you suspect is having an acute
24 MI should go to the chest pain unit?
25 A. No.

Page 21

1 you a couple of questions about that.
2 Based on the laboratory normal ranges
3 that are given on the lab sheets at
4 Aultman Hospital, would you agree that
5 the myoglobin result falls outside the
6 normal range?
7 A. Yes.
8 Q. Would you agree that the
9 troponin level falls outside the normal
10 range?
11 A. Based on the way they list
12 it. For example, in our hospital, if
13 the troponin level had been at that
14 level, that would have been listed in
15 the normal range. I think Aultman has
16 an unusual way of categorizing troponins
17 that the clinicians seem to sort of
18 ignore, but the pathologists label as
19 such.
20 Q. But based on the lab values
21 printed on the sheet at Aultman
22 Hospital, would you agree that the .04
23 falls outside the normal listed range
24 for Aultman Hospital?
25 A. It falls into the -- how do

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1 they -- what do they report it as? It
2 falls outside of the drop-dead normal
3 range and falls into the intermediate
4 range, which is short of the abnormal
5 range.

6 Q. You mean it's short of the
7 diagnostic for acute MI range, is that
8 what you mean?

9 A. Yes. Yes.

10 Q. Because by definition, if
11 it's outside the normal range, it's
12 abnormal; correct?

13 A. In this case I would not
14 state it as such, as a clinician. And
15 I think I can speak as the clinicians
16 were thinking, also, who use this lab on
17 a regular basis, and as they have said
18 in their depositions time and time
19 again, they did not consider this
20 troponin to be abnormal.

21 Q. So if Dr. Waller considers a
22 troponin of .04 to be abnormal, the
23 other expert hired by the defense in
24 this case, he is wrong?

25 A. That's his opinion.

Page 24

1 the studies that have talked about the
2 prognostic significance of a troponin in
3 the so-called gray zone?

4 A. I am not familiar with the
5 studies, but I can tell you from years
6 of experience and working with my 40
7 cardiologists here at this hospital,
8 they have been very, very disappointed
9 with troponins. Some of the groups
10 don't even want us to do troponins, and
11 they still consider the CPK-MB as the
12 gold standard for the enzymes.

13 Q. I thought you didn't like
14 that word.

15 A. I don't like that word. I
16 just wanted to use it because you used
17 it.

18 Q. So would you disagree that
19 it's well established that an elevated
20 troponin of .04 nanograms per milliliter
21 or higher correlates with an increased
22 mortality?

23 A. I have never read that. I
24 would love to read articles that state
25 that, but that has not been my

Page 23

1 Q. Is he wrong?

2 A. Is he wrong? No. That's his
3 opinion.

4 Q. Well, it's either -- one of
5 you has to be wrong.

6 A. Oh, no, no, no, no. We know
7 that's not true in law. There is no
8 right or wrong, there are opinions.

9 MR. HOWES: Well, I am
10 going to object because I don't believe
11 that Dr. Waller said that .04 was
12 abnormal.

13 MR. STRONG: He sure
14 didn't.

15 MS. MATTHEWS: He said all
16 of the troponins done on Connie
17 Germanoff were abnormal on the admission
18 between 12-16 and 12-18. Wasn't one of
19 them --

20 MR. HOWES: I stand by
21 my objection.

22 MS. MATTHEWS: Fine. All
23 right. Let's move on.

24 BY MS. MATTHEWS:

25 Q. Are you familiar with any of

Page 25

1 experience.

2 Q. Do you agree with Dr.
3 Hatcher that you cannot rule out MI on
4 the basis of one set of enzymes?

5 A. I agree with that.

6 Q. So these enzymes, whether
7 they were normal or abnormal, didn't
8 rule out MI; correct?

9 A. The enzymes in and of
10 themselves would not rule out MI.

11 Q. Would you agree with me --
12 with the principle that a doctor's
13 responsible for checking any labs he or
14 she orders?

15 A. I think if you order a lab,
16 at some point you need to find out the
17 results.

18 Q. At a meaningful point, I
19 would imagine?

20 A. At a meaningful point, and
21 that's where it becomes debatable, but
22 yes.

23 Q. You would expect, for
24 instance, an ER doctor to know the
25 results of their lab tests before they

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1 discharged the patient?
2 A With the exception that there
3 are sometimes some routine labs that we
4 are ordering because a family doctor
5 asks us to, like for example we might
6 order thyroid studies, which don't come
7 back right away. And with that
8 exception, routine labs that maybe don't
9 get done right away, I think that if we
10 order labs, unless the patient is
11 directly admitted and there is an
12 understanding that the private attending
13 will check them, that we should be
14 checking the labs we order.
15 Q. Would you agree that up to
16 50 percent of EKGs may be normal in the
17 early stages of a myocardial infarction?
18 A. Yes, I do.
19 Q. So the EKG that was done on
20 the 20th didn't rule out an acute MI
21 either?
22 A. No.
23 Q. Did the combination of the
24 EKG and one set of enzymes rule out an
25 acute MI?

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1 hours after the actual infarct starts.
2 Q. All right. Would you agree
3 with this sentence from the book, Page
4 416: If the emergency physician orders
5 one CPK, the patient should be admitted
6 or observed carefully, and a second CPK
7 ordered at the proper time interval?
8 A. No, I wouldn't agree with
9 that. I think in 1990-'91 that was the
10 thinking. But I think that has changed.
11 Q. Isn't that the principle
12 behind chest pain units?
13 A. No. The principle behind
14 chest pain units or observation units is
15 to create a situation where some
16 intermediary patients that you really
17 feel that you can't exclude, based on
18 the history, and you want to observe for
19 a period of time, I think that's what
20 actually created the concept.
21 Q. Are you familiar with the
22 protocols of the chest pain unit at
23 Aultman Hospital?
24 A. No, I am not.
25 Q. Okay. Can we agree that

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1 A. No.
2 Q. You wrote -- you were one of
3 the authors of a book, correct,
4 Emergency Medicine Risk Management, a
5 Comprehensive Review?
6 A. I wrote one article for
7 that.
8 Q. Is this a good book?
9 A. I think it's a decent book,
10 yes.
11 Q. And it was published in 1991
12 by the American College of ER
13 Physicians; correct?
14 A. That long ago? Oh, boy. It
15 seems like only yesterday.
16 Q. Do you agree with this
17 sentence from the book, Page 416: All
18 enzyme testing is extremely unreliable
19 in the early stages of a myocardial
20 infarct and would not be positive in
21 cases of unstable angina?
22 A. Yes. Unstable angina, the
23 enzymes will not be positive, and the
24 enzymes don't become positive in acute
25 MIs at the earliest until about three

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1 Connie Germanoff, on the 20th, had
2 symptoms for more than a half an hour?
3 A. I am not sure, but it's
4 quite possible she did.
5 Q. If you would like to look at
6 Dr. Hatcher's dictation, I think it
7 might have --
8 A. I don't really need to. It
9 doesn't -- it doesn't matter to me
10 whether she had it more than a half
11 hour or less than a half hour.
12 Q. Okay. We talked about --
13 the EKG, you would agree, is not
14 diagnostic?
15 A. The EKG is not diagnostic
16 unless it's absolutely positive.
17 Q. In this case.
18 A. A negative EKG is not
19 diagnostic in and of itself.
20 Q. And this particular EKG is
21 nondiagnostic?
22 A. This EKG I would read as
23 normal.
24 Q. And, therefore, it's
25 nondiagnostic?

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1 A No, it's diagnostic of being
2 normal. It's just it doesn't tell you
3 a hundred percent the patient is not
4 having coronary ischemic disease.
5 Q. Okay. If the Aultman
6 Hospital Heart Attack Triage Guidelines
7 provide that in patients who have
8 symptoms more than 30 minutes, where the
9 symptoms are typical symptoms --
10 A Right.
11 Q. -- and you have a
12 nondiagnostic EKG, the mandated
13 guidelines are serial EKGs, serial CPKs,
14 myoglobins and troponins, and
15 disposition to the CCU, would you
16 disagree with that management for Connie
17 Germanoff on 12-20?
18 A Would I disagree with the
19 management that Dr. Hatcher provided on
20 the 20th, you're saying in light of
21 these criteria?
22 Q. Correct.
23 A Could I look at those
24 criteria?
25 Q. Sure.

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1 A Thankyou.
2 MR SWITZER: These are
3 the hospital policies?
4 MS. MATTHEWS: Correct.
5 THE WITNESS: Okay, it
6 says Aultman Hospital Heart Attack
7 Triage Guidelines, and do we know
8 whether this was created by the
9 emergency department or the
10 cardiologist? Do we have any idea?
11 MS. MATTHEWS: I was told
12 that these are the ER chest pain center
13 triage guidelines.
14 MR. SWITZER: Are these
15 the hospital nursing policies?
16 MS. MATTHEWS: No. The
17 hospital is here, do you --
18 MR HOWES: I am not
19 prepared to comment one way or the
20 other.
21 MS. MATTHEWS: They were
22 provided to me in response for requests
23 for production for any and all protocols
24 from the chest pain center at Aultman
25 emergency room. That's all I can tell

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1 you.
2 MR SWITZER: Again, my
3 question was -- and you may not know
4 the answer -- are these hospital nursing
5 policies for the ER?
6 MS. MATTHEWS: I don't
7 know.
8 MR. SWITZER: You don't
9 know. Okay.
10 MR STRONG: Can I see
11 this?
12 MS. MATTHEWS: Sure.
13 THE WITNESS: Okay. Well,
14 let me say this, it says here, Track
15 3-A, symptoms greater than 30 minutes.
16 If the symptoms are typical, if the EKG
17 is nondiagnostic, then they are saying
18 serial EKG, serial CPK, myoglobin,
19 troponin, positive or negative rest
20 cardiolute with pain, and then it says
21 disposition CCU. I am not sure what
22 they mean by positive or negative rest
23 cardiolute with pain. I am not
24 saying -- I don't know whether they mean
25 that that test must be done as part of

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1 the evaluation, and that if it's
2 positive or negative it doesn't make any
3 difference, so I am at a little bit of
4 a loss,
5 I will say this: I would
6 be surprised that they would be
7 admitting a patient to CCU with the
8 paucity of these evaluations. Usually
9 if you admit a patient like this they
10 go to like a telemetry bed, because they
11 are considered low risk, as opposed to
12 definite EKG findings.
13 So I don't know how old
14 this is. It says it was revised
15 6-5-98, so that's fairly recent. The
16 only thing I would say is this:
17 This says nondiagnostic EKG, and then
18 they have another cardio -- another
19 category which says normal EKG, under
20 Track 4-A.
21 BY MS. MATTHEWS:
22 Q. But that's for symptoms less
23 than 30 minutes; correct?
24 A. Right. But they also say
25 under symptoms less than 30 minutes,

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1 nondiagnostic EKG, on Track 4-B.
2 Q. Well, that's with atypical
3 symptoms?
4 A. I understand that. I
5 understand that. But my point is is
6 that this patient, while they had
7 typical symptoms, didn't have the
8 nondiagnostic EKG, had a normal EKG.
9 And I only brought the others up that
10 they are creating a category of normal
11 EKG. Nondiagnostic EKG, according to
12 them, I assume, is not a perfectly
13 normal EKG.
14 Q. Well, Connie Germanoff had a
15 sinus arrhythmia; didn't she?
16 A. That's a normal finding.
17 Sinus arrhythmia -- I have a sinus
18 arrhythmia; you probably have a sinus
19 arrhythmia.
20 Q. I hope not.
21 A. She had a normal EKG, and a
22 sinus arrhythmia is part of a normal
23 EKG. So a lot of this depends on what
24 they meant by nondiagnostic. And as
25 these other gentlemen have mentioned, we

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1 need to find out were these nursing
2 triage guidelines? But that's about all
3 I can say, based on this.
4 Q. Okay. So my question is,
5 again --
6 A. Yes?
7 Q. -- Is based on these
8 guidelines that you have before you,
9 would you agree that the best track to
10 place Connie Germanoff, given everything
11 that's here, would be 3-A?
12 MS. ATWELL: Objection.
13 THE WITNESS: I would say
14 that she doesn't fall into either Track
15 3-A or Track 3-B because -- she is not
16 3-B because her symptoms were not
17 typically atypical. And she didn't have
18 a nondiagnostic EKG, so she is not Track
19 3-A.
20 BY MS. MATTHEWS:
21 Q. So even though the normal
22 EKG is nondiagnostic, you would not feel
23 that she requires the serial EKGs and
24 enzymes?
25 A. I would say that based on a

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1 normal EKG she didn't fall into this
2 cookbook.
3 Q. Uh-huh.
4 A. And, therefore, I wouldn't
5 use this cookbook to make a decision on
6 this patient.
7 Q. Well, if a normal EKG
8 doesn't rule out acute MI, and a normal
9 set of enzymes doesn't rule out acute
10 MI, and acute MI was in the differential
11 diagnosis for the patient on 12-20, what
12 is it exactly that transpired that
13 allowed Dr. Hatcher to determine this
14 wasn't an acute MI -- was not an acute
15 MI?
16 A. Well, we as clinicians are
17 never able to totally rule out
18 anything --
19 Q. Uh-huh.
20 A. -- by tests. Medicine is
21 not a science, it's an art. And there
22 is no question in this case that the
23 patient's previous extensive cardiac
24 workup, albeit not including a cardiac
25 cath, did give the physician, Dr.

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1 Hatcher, for example, a lot of
2 information that he relied upon,
3 including not just what had been done,
4 but the fact that he knew two
5 cardiologists who had gone over this
6 patient quite carefully. And that
7 influenced his decision, as it should.
8 If this patient had come
9 in off the street as a total stranger
10 and had never been -- previously had any
11 cardiac evaluation, he might have done
12 things differently. You would have to
13 ask him. But there is no question the
14 previous workup did give him a lot of
15 information that a stranger wouldn't
16 have.
17 Q. Well, he had all that
18 information, everything you just talked
19 about, he had all that information
20 before he ordered the acute MI panel;
21 didn't he?
22 A. Yes.
23 Q. So what information did he
24 have after he got back the labs that he
25 didn't have before?

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<p style="text-align: right;">Page 38</p> <p>1 A. Well, he had a chance to 2 observe the patient for a period of 3 time. He had a patient -- an 4 opportunity to examine the patient on a 5 number of occasions, and he was 6 reassured somewhat by what were 7 considered normal studies, nondiagnostic 8 studies, albeit, but not abnormal 9 studies -- nonabnormal studies. 10 Q. You lost me on that. I 11 mean, the myoglobin was abnormal; 12 correct? 13 A. Myoglobin is a worthless 14 test. 15 Q. He ordered it. 16 A. As part of the panel. He 17 didn't specifically say myoglobin, he 18 ordered the panel. The hospital 19 pathology department creates that as 20 part of the panel. It is a test that 21 we don't even do, that we have never 22 done. It is meaningless. I will go on 23 the record by stating if I blow my nose 24 now my myoglobin probably will go up, 25 Q. Well, in fact there are lots</p>	<p style="text-align: right;">Page 40</p> <p>1 other noted cardiologists -- 2 A. I know Dr. Antman. I went 3 to college with him. 4 Q. So you would disagree with 5 him too? 6 A. I would disagree completely, 7 I think it's a confusing test that 8 should be eliminated. 9 Q. Would you disagree that every 10 time a patient comes in with a 11 presentation suggestive of acute 12 myocardial infarction, you have to look 13 at them as a new patient? 14 A. Well, you can look at them 15 as a new patient, but you can't ignore 16 extensive past evaluations. I mean, 17 things can change, but you take it all 18 into consideration and you look at the 19 patient. 20 Q. Well, what was so extensive 21 about her evaluation? 22 A. She had been having symptoms 23 for at least three months, maybe longer. 24 She saw at least two cardiologists. 25 Q. Uh-huh.</p>
<p style="text-align: right;">Page 39</p> <p>1 of authors of great stature that believe 2 that the myoglobin, together with other 3 cardiac markers, is a valuable test; 4 correct? 5 A. I couldn't tell you that. I 6 can't tell you any off the top of my 7 head. It is a worthless test. We have 8 never, ever done it here. 9 Q. And so if the American 10 College of ER Physicians put out the -- 11 a series of papers talking about the 12 value, you would disagree? 13 A. I would disagree. 14 Q. And if the National Heart 15 Attack Alert Program Working Group, 16 published in the Annals of Surgery, felt 17 the myoglobin was a useful test -- 18 A. Surgery? 19 Q. Annals of Emergency Medicine, 20 I am sorry -- you would disagree? 21 A. Oh, okay. I disagree. I 22 think it's a confusing, worthless test 23 that should be eliminated. 24 Q. And you disagree with Dr. 25 Braunwald and Dr. Antman and all the</p>	<p style="text-align: right;">Page 41</p> <p>1 A. She was admitted once for 2 this. 3 Q. Uh-huh. 4 A. She had two stress tests. 5 The first was inconclusive because it 6 was not a maximal stress. It only went 7 to about 72 percent, as I recall, of 8 her maximal. She then had another 9 stress test done three months later, 10 which was normal. 11 She had, during this time 12 period, many EKGs. She had a quite 13 extensive evaluation. Now, we know that 14 nothing is a hundred percent. But she 15 had quite an extensive evaluation. 16 Q. Well, didn't she in fact -- 17 didn't she in fact only have one 18 meaningful stress test? 19 MR. STRONG: Objection. 20 THE WITNESS: She had one 21 stress test that was absolutely 22 100-percent effective. She had one that 23 was only 72-percent effective. That's 24 not to say you ignore that first stress 25 test, it just was not a hundred percent</p>

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1 stresstest.
2 BY MS. MATTHEWS:
3 Q. So essentially her extensive
4 workup consisted of the same test twice?
5 A. Same test twice, both times
6 normal, and seeing two highly respected,
7 well-trained cardiologists.
8 Q. Both of whom have testified,
9 have they not, that had they known she
10 was back, they would have cathed her?
11 A. That's what they said.
12 Q. So, obviously, someone didn't
13 communicate to Dr. Hatcher that the
14 cardiologists weren't sure that this
15 wasn't cardiac, did they?
16 A. Well, I am not sure why the
17 cardiologists weren't sure it wasn't
18 cardiac. If they weren't sure it wasn't
19 cardiac, after having her in the
20 hospital, why didn't they finish their
21 evaluation? But I think it was
22 reasonable for Dr. Hatcher to assume
23 that they felt quite confident that this
24 was not cardiac, when they released her.
25 As an emergency physician

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1 A. Well, I think patients do
2 that, but I think patients also know
3 that nothing is a hundred percent, and
4 that we can't root out and diagnose
5 accurately every known disease to
6 mankind, and that there is approximately
7 a 2- to 4-percent failure rate to
8 diagnose acute MI, and these patients
9 die of sudden death. And that is an
10 accepted, established percentage of
11 failure.
12 Q. Right. But Connie Germanoff
13 kept coming back with chest pain;
14 correct?
15 MR. SWITZER Objection.
16 THE WITNESS: Well, she
17 kept coming back with chest pain every
18 time except the last time, the time
19 before she died. That time she came in
20 with epigastric pain.
21 BY MS. MATTHEWS:
22 Q. Well, she complained to the
23 paramedics of severe chest pain on the
24 way, didn't she?
25 A. The paramedics wrote down

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1 I am here to attest to the fact that it
2 is the standard of care, that the
3 doctors met the standard of care in
4 emergency medicine to rely on the fact
5 that the cardiologists had had a chance
6 to work her up, and let her go, that
7 she was evaluated for cardiac disease.
8 Q. So, therefore, it's your
9 opinion, I take it, that if the
10 cardiologists weren't sure this was
11 cardiac, they should have done whatever
12 was necessary to make sure it wasn't
13 cardiac?
14 MR STRONG: Objection.
15 THE WITNESS: I can't
16 attest to the standard of care for
17 cardiology. All I can say is it is the
18 standard of care in emergency medicine
19 for emergency physicians to rely on
20 their cardiologists and their past
21 workups.
22 BY MS. MATTHEWS:
23 Q. Well, then, I think it's
24 reasonable for Connie Germanoff to rely
25 on all her doctors, don't you?

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1 chest pain, but the ED nurse and the
2 emergency physician both said she
3 complained to them about epigastric
4 pain.
5 Q. But in fact the paramedic
6 documented that she was complaining of
7 chest pain, and it was the same chest
8 pain she had been having all along;
9 isn't that what the run sheet says?
10 A. I will look at the run
11 sheet. She did -- the paramedics did
12 write down chest pain; patient having --
13 indicates severe chest pain, was taken
14 to Aultman twice this week for same type
15 of pain -- same type of pain that she
16 had been having previously. Patient has
17 a history of reflux and esophageal
18 spasm. Yes.
19 So the nurse and the
20 doctor who take care of this patient and
21 have a lot more time to spend with the
22 patient, have a much higher level of
23 training than the paramedics, basically
24 document, both, that she said epigastric
25 pain. So if I have to make a choice

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1 and decide, there is several
2 possibilities: She either told the
3 paramedics she had chest pain, and she
4 told the nurse and doctor she had
5 epigastric pain, so she was inconsistent
6 in her history; or she indicated to the
7 paramedics she had epigastric pain, but
8 they wrote down chest pain; or she told
9 the nurse and the doctor it was chest
10 pain, but they both wrote down
11 epigastric pain.

12 Given those three
13 scenarios I tend to believe that she
14 either told the paramedics that she had
15 epigastric pain, and they just wrote
16 down chest pain, or she told the two
17 parties two different stories.

18 Q. Well, in fact, what the
19 paramedics wrote down is chief
20 complaint, chest pain. History of chief
21 complaint, two episodes in past week.
22 Patient indicates severe chest pain.
23 Patient was taken to Aultman ER twice
24 this week for the same type of pain.
25 That's what the paramedic documented;

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1 review of systems that Connie Germanoff
2 denies chest pain?

3 A. No, I don't believe it does.

4 Q. Did Dr. Hamrick document
5 anywhere that **she** even asked Connie
6 about these complaints documented by the
7 paramedics?

8 A. No, I don't think she did.
9 And I don't think it would be necessary
10 because to be perfectly honest, while we
11 appreciate the work that these
12 paramedics do because they are, you
13 know, out in the field, and we can't
14 be, their level of training is so much
15 less that you can't even compare, for
16 example, a paramedic training and a
17 nurse's training.

18 Q. So a paramedic doesn't know
19 what chest pain is?

20 A. I have seen many times where
21 they will come into the patient's home
22 and say:
23 What's wrong, ma'am? And the patient
24 will have their hand like this
25 (indicating), and they will just say:

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1 correct?

2 A. Correct.

3 Q. And I take it whatever
4 Connie Germanoff told the doctor and the
5 nurse, they should have been aware that
6 this is what the paramedic wrote down,
7 if the paramedic provided this sheet to
8 them?

9 A. Right, if the paramedic
10 provided the sheet. However, if the
11 patient told them: I am having
12 epigastric pain, they would pretty much
13 ignore what the paramedic said because
14 they would assume that they
15 misinterpreted what she was saying.

16 Q. How can you ignore a
17 complaint of chest pain? Ignore?

18 A. You are getting a history
19 directly from the patient. **You** can't do
20 better than that. You ignore a --
21 secondhand information if the person
22 experiencing the symptoms **looks** at you,
23 is sober, competent, and says: I am
24 having epigastric pain.

25 Q. Does it say anywhere in the

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1 John, she says she **is** having chest pain.

2 I don't know what
3 transpired. I just know that given a
4 doctor and a nurse saying she had
5 epigastric pain versus a paramedic who
6 said she had chest pain, I am going to
7 believe the nurse and the doctor.

8 Q. Why do **you** have to believe
9 the nurse and the doctor, as opposed to
10 the paramedic? Why can't you believe
11 everyone?

12 A. Well, if I believe everyone,
13 then I am going to weigh the history
14 that the doctor and the nurse got much,
15 much more.

16 Q. Because isn't that the jury's
17 job, to decide the credibility of these
18 various people? Isn't it your job, as an
19 independent, nonbiased expert, to look
20 at everything that's in the medical
21 record and come up with an independent,
22 nonbiased review?

23 A. Right. Right. And that's
24 what I have done.

25 Q. Right. And so we have to

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1 deal with all the information we have?
2 A. Sure.
3 Q. And one of the things we
4 have documented is that Connie Germanoff
5 complained to the paramedics of chest
6 pain. That's documented; correct?
7 A. The paramedics wrote down
8 that they perceived that she was having
9 chest pain.
10 Q. All right. And you would
11 agree with me that a doctor, a prudent,
12 practicing emergency room doctor, who
13 sees that a patient -- that a paramedic
14 has written down chest pain as the chief
15 complaint, needs to be aware of that?
16 MR. SWITZER: Objection.
17 Before you answer, that -- my
18 understanding is that ambulance sheet is
19 not a part of the hospital records in
20 this case. So I think the
21 representation, if that's your
22 representation that it is, is not
23 accurate.
24 MS. MATMEWS: Oh, I don't
25 even understand that.

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1 that information in making this
2 decision.
3 Q. Well, let me ask you a
4 hypothetical question. If the paramedic
5 either provided the run sheet to the
6 doctor or the nurse, or personally
7 reported to the doctor or nurse that the
8 patient complained en route to the
9 hospital of chest pain -- assume that
10 happened --
11 A. I will do that.
12 Q. -- would you agree that the
13 doctor needs to deal with that
14 complaint?
15 A. Right. The doctor -- the
16 doctor would then, it would be incumbent
17 upon the doctor to then use that
18 information as he or she best felt
19 appropriate.
20 Q. And you can't ignore it?
21 A. I don't think we would
22 totally ignore it, no. We would keep
23 that in the back of our mind, with all
24 the other things going on.
25 Q. All right. Would you agree

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1 ME WITNESS: Well, my
2 understanding is this: First of all, I
3 can tell you firsthand that probably
4 only 20 percent of the time do we get
5 to see the run sheet --
6 BY MS. MATTHEWS:
7 Q. Uh-huh.
8 A. -- when we are taking care
9 of the patient because these run sheets
10 are completed generally later. That's
11 number one.
12 Number two, I believe Dr.
13 Hamrick has testified that she never saw
14 the run sheet.
15 Q. (Nodding head up and down.)
16 A. So she did not have that
17 information, apparently. And to my
18 knowledge we have not deposed the nurse,
19 you have not deposed the nurse to find
20 out whether or not she ever saw the run
21 sheet.
22 So the fact of the matter
23 is that the doctor claims that they did
24 not have this information, so it would
25 have been very difficult for them to use

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1 it's not documented anywhere in the
2 medical record that Connie had any tests
3 performed that showed she had reflux
4 disease?
5 A. In looking at the chart I do
6 not see anywhere where she had any
7 definitive procedures or tests that
8 proved that she had GERD.
9 Q. Would you agree, based on
10 the testimony that you have read from
11 Dr. Kamen and Dr. Lee, that if Dr.
12 Hatcher had called them and told them
13 Connie was back on the 20th, they would
14 have cathed her?
15 A. I am sorry, I heard the end
16 of that, but what was -- I remember
17 them saying that. What is your question
18 to me about that?
19 Q. My question to you is: Would
20 you agree, based on the testimony that
21 you read, you have read, that if Dr.
22 Hatcher would have called either Dr.
23 Kamen or Dr. Lee, they would have cathed
24 her?
25 MR. SWITZER: Objection.

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1 MS. ATWELL: Did you mean
2 Hatcher or Hamrick?
3 MS. MATTHEWS: Hatcher.
4 MS. ATWELL: Okay.
5 THE WITNESS: Do I agree,
6 if Dr. Hatcher had called? Based on the
7 testimony that the cardiologists had
8 provided, if Dr. Hatcher had called
9 them, do I agree that they would have
10 cathed her? Well, based on their
11 testimony I would agree because they
12 said that.

13 But in my opinion, based
14 on what I know about working with my
15 cardiologists, I am quite sure that what
16 would have happened, if Dr. Hatcher had
17 called the cardiologist, would be that
18 if they spoke to the same cardiologist
19 -- I assume there are other people in
20 the group, so they might have talked to
21 someone who didn't know the patient.
22 And if Dr. Hatcher had said the patient
23 has had two stress tests, and presented
24 it, that they would have probably said
25 it sounds as though she has been worked

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1 someone who has never had a cardiac cath
2 it's reasonable to admit them more than
3 once?

4 A. Oh, I think it's reasonable
5 to do it. I think it's also reasonable
6 not to do it, depending on the
7 circumstances, depending on how she is
8 presenting that night.

9 Q. Well, isn't that what the
10 chest pain unit is for, to do serial
11 EKGs and enzymes and get a cardiology
12 consult, if necessary, and make these
13 kinds of decisions?

14 A. Well, the chest pain center
15 can be used for a variety of patients,
16 but this type of scenario does not
17 necessarily have to be one of them.
18 You admit a patient to the chest pain
19 unit generally on people who have not
20 had previous cardiac workups, who come
21 in off the street, you have no data on,
22 and they are like total strangers to
23 you, and you have no idea what's going
24 on with them. And it's an individual
25 decision that the physician makes when

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1 up rather extensively. She needs to
2 make an appointment in our office, and
3 we will take a look at her.

4 I think if she had called
5 one of the two cardiologists who were
6 more intimate with her, I think they
7 would have given her the same response.
8 So I don't think -- I am not saying
9 they wouldn't have cathed her, but I
10 don't think they would have admitted her
11 that night. And I think they probably
12 would have said she needs to follow up
13 with us so we can reevaluate her.

14 BY MS. MATTHEWS:

15 Q. So you don't believe their
16 testimony?

17 A. I don't remember exactly what
18 they said, but I am basing this on my
19 experience:

20 Patient worked up to this level, who has
21 once again the same symptoms she has
22 been having for three months, minimum, I
23 am skeptical that they would have
24 admitted her that night.

25 Q. And you don't think that in

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1 they evaluate them.

2 Different kinds of
3 patients get admitted to this unit. But
4 to say that Connie Germanoff would have
5 been a great case for that, I would say
6 no, that's not the typical patient that
7 you admit to the cardiac chest pain
8 unit.

9 Q. Well, aren't there all kinds
10 of patients admitted to that chest pain
11 unit; people who have had prior surgery?

12 A. Yeah.

13 Q. People who have unclear
14 symptoms?

15 A. Sometimes.

16 Q. People who haven't had
17 cardiac cath; even people who have had
18 normal caths, right?

19 A. Yeah, they can be. It just
20 depends on the circumstances and the way
21 they present.

22 Q. Well, was there some symptom
23 that Connie Germanoff could have given
24 to Dr. Hatcher that would have made her
25 a better candidate for the chest pain

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1 unit?
2 A. No. It's just that I assume
3 that Dr. Hatcher didn't feel she was a
4 candidate, based on his evaluation. He
5 did not have a high or even reasonable
6 sense of thinking that this was cardiac
7 etiology. He let her go because he was
8 quite certain this was not cardiac
9 etiology.
10 Q. And the entire basis of that
11 was his reliance on the adenosine stress
12 test; correct?
13 A. It was his evaluation of her
14 that night. It was his reliance on not
15 just the stress test but the two
16 cardiologists with whom he was familiar
17 and respected, having had her recently
18 as an admitted patient three days
19 before, and having gone over her in
20 great detail. It's not just the stress
21 test. The stress test is a small part
22 of it.
23 Q. Uh-huh. Well, Dr. Hatcher
24 -- if Dr. Hatcher testified that he is
25 aware that somebody with a

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1 your feeling for what the patient looks
2 like and feels like at that time.
3 Q. And you can't rule that out
4 on the basis of one EKG and one set of
5 enzymes?
6 A. You can't rule that out even
7 if you bring the patient in, do a
8 cardiac cath, do multiple cardiac cath,
9 you can never be a hundred percent sure,
10 Q. But as an ER doctor your job
11 isn't to do the cardiac cath or to
12 interpret it, it's just to put the
13 patient in a position where they can be
14 evaluated by the cardiologist again;
15 correct?
16 A. That can be done without
17 admitting the patient too. They can be
18 evaluated by the cardiologist without
19 admitting them.
20 Q. Well, did Dr. Hatcher arrange
21 that?
22 A. I don't think he had to
23 arrange that. I think he can tell the
24 patient: You need to follow up
25 with your doctor.

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1 nonsignificant stenosis of a coronary
2 artery could undergo a plaque rupture
3 and develop an acute occlusion suddenly,
4 do you agree with that?
5 A. That can happen to anybody.
6 Q. Right. So even if Connie
7 Germanoff had had a normal adenosine
8 stress test, and she came in with these
9 symptoms, she could have ruptured a
10 plaque; correct?
11 A. It can happen to anyone.
12 Q. And the only way you're ever
13 going to make that determination as an
14 ER doctor is if you do the appropriate
15 tests; correct?
16 A. You might uncover that if
17 you do the appropriate tests. The
18 appropriate tests, the only way to do
19 that is you admit the patient. Putting
20 them in the chest pain unit just
21 overnight is not going to give you that
22 result a hundred percent. It's a
23 decision that is made based on the
24 information you have at hand and the
25 previous testing that has occurred and

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1 Q. Well, did he tell Connie
2 Germanoff that she needed to follow up
3 with the cardiologist?
4 A. No, he just said: You need
5 to follow up with your doctor.
6 Q. And so when Connie Germanoff
7 called her doctor two days later and
8 said, I am still having chest pain,
9 Connie did what she was told to do,
10 didn't she?
11 A. Yes.
12 Q. All right. So was it the
13 doctor's responsibility now to send her
14 to the cardiologist, or was it okay for
15 that doctor to just prescribe Darvocet?
16 A. Well, I'm not going to
17 attest to the standard of care for the
18 family doctor as to what they told the
19 patient. I am not here to attest to
20 what the family doctor should have done.
21 It may have been very appropriate.
22 Q. Well, these things -- you
23 can answer everything that way. But
24 what's Connie Germanoff supposed to do
25 to get diagnosed? She is doing

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1 everything she is asked, and yet she
2 doesn't get sent back to the
3 cardiologist.
4 A No one is saying that this
5 is Connie's fault. It's not Connie's
6 fault. I mean, obviously her lifestyle
7 practices were not that healthy. But
8 the point is that there are some
9 patients that are not diagnosable.
10 Q. Well, this --
11 A They have various disease
12 entities that come together and work
13 together that, unfortunately, in this
14 case, confounded and fooled at least a
15 half dozen very good doctors. Now, I
16 don't believe that six doctors committed
17 malpractice. I think that there are
18 patients whose disease entities, maybe
19 because of a combination of diseases
20 coming together, which is I think what
21 happened here, fooled the doctors and
22 fooled the tests. And that's what I
23 think happened here.
24 That doesn't mean it's
25 Connie's fault. It's an unfortunate

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1 what they say. And that's what the
2 emergency physicians did here, and I
3 think that that was reasonable, and I
4 think they met the standard of care in
5 doing that.
6 BY MS. MATTHEWS:
7 Q. Where did Dr. Kamen and Dr.
8 Lee write in this medical record that
9 Connie Germanoff had coronary artery
10 disease ruled out?
11 A They released her from the
12 hospital after doing a variety of tests.
13 That insinuates to anyone reading the
14 chart that they obviously were not
15 impressed that she had coronary artery
16 disease.
17 Q. Would you agree, if a
18 cardiac cath had been done, it would
19 have identified her lesions and led to
20 treatment?
21 A No, I wouldn't agree with
22 that. Again, I'm not an expert, but --
23 but I can just tell you, based on my
24 limited experience in looking at
25 pathology reports and looking at cardiac

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1 case. But that happens in the practice
2 and art of medicine. It is not a
3 science.
4 Q. Well, it sounds to me like
5 you believe that it's reasonable for the
6 ER doctor to rely on the fact that the
7 cardiologist discharged this patient as
8 saying that the patient didn't have
9 coronary artery disease; that's what you
10 believe?
11 A Oh, absolutely.
12 Q. Therefore, it sounds like the
13 people you think committed malpractice
14 are the cardiologists, if they didn't
15 feel that way and they discharged her,
16 knowing that people were going to rely
17 on them?
18 MR. STRONG: Objection.
19 He already answered that.
20 MR. SWITZER: Objection.
21 THE WITNESS: I can't
22 attest to what the standard of care is
23 for cardiology, but I can attest to the
24 fact that we, as emergency physicians,
25 rely heavily on our cardiologists and

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1 caths on patients, that 70-percent
2 lesions on a pathology report might very
3 well have looked like 50-percent lesions
4 or even less on a cardiac cath. I
5 think it's entirely possible that a
6 cardiac cath would have disclosed very
7 limited lesions that they would not have
8 done anything about. But you would have
9 to talk to the cardiology experts about
10 that.
11 Q. Would you disagree with Dr.
12 Waller's opinion that failure to perform
13 the diagnostic catheterization by Dr.
14 Lee fell below the standard of care for
15 a cardiologist, and led directly to
16 Connie Germanoff's fatal, acute
17 myocardial infarction?
18 MR. STRONG: Objection.
19 MR. SWITZER: Objection.
20 You've already asked that.
21 THE WITNESS: I have
22 already said I am not a cardiologist, I
23 can't say that.
24 BY MS. MATTHEWS:
25 Q. Did Connie Germanoff ever get

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1 an echocardiogram?
 2 A. I don't think she did.
 3 Q. That's a noninvasive test,
 4 right?
 5 A. Yes. It does not give very
 6 much information. It's great for
 7 valves; it's great to look at valves.
 8 If you think a patient is acutely having
 9 an infarct in front of you, you may see
 10 an abnormality of the wall motion. But
 11 again, it would have been normal, in my
 12 opinion.
 13 Q. If Connie Germanoff were
 14 having an acute myocardial infarction
 15 during an ER visit, it's likely, if an
 16 echocardiogram had been done, it would
 17 have demonstrated a wall motion
 18 abnormality, isn't it?
 19 A. If she were having an acute
 20 MI it might have shown wall motion.
 21 But in my opinion there was no ER visit
 22 where she was having an acute MI.
 23 Q. But in a patient who is
 24 having an acute MI, isn't it a fact
 25 that 90 percent of them will have wall

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1 motion abnormalities on echocardiograms?
 2 A. That's probably true. I
 3 don't know about the 90 percent, but
 4 it's probably close to being true --
 5 about the same kind of a percentage rate
 6 as an adenosine stress test.
 7 Q. During an acute MI?
 8 A. Not during an acute MI, in
 9 uncovering coronary artery disease, 90
 10 percent.
 11 Q. Let's not mix apples and
 12 oranges because I'm sorry, I'm getting
 13 confused.
 14 A. I just wanted to say 90
 15 percent is nice, but you have already
 16 alluded to the fact that 90 percent is
 17 not a hundred percent.
 18 Q. I see.
 19 A. That was my point.
 20 Q. But it's reasonable, is it
 21 not, that if you do an echocardiogram in
 22 the presence of an acute MI, you will
 23 detect a wall motion abnormality
 24 percentage in somewhere around 90
 25 percent?

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1 A. I think that's probably
 2 close.
 3 Q. As an ER doctor do you think
 4 it's appropriate to prescribe Darvocet
 5 for chest pain that you don't know the
 6 etiology of?
 7 A. Yes.
 8 Q. What's the sensitivity of the
 9 combination of EKG and enzymes in the
 10 detection of an acute MI in a patient
 11 who is actually having an MI?
 12 A. I couldn't tell you the
 13 exact percentage. It's not a hundred
 14 percent, though.
 15 Q. How high do you think it is?
 16 A. I couldn't tell you.
 17 Q. Would you agree that you
 18 probably will detect it --
 19 A. Yes.
 20 Q. -- being --
 21 A. (Witness nodding head up and
 22 down.)
 23 Q. Would you agree that the
 24 sensitivity of CK and CK-MB is not
 25 sufficient to rely on this test alone to

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1 rule out MI?
 2 A. I think that that is such a
 3 good test that I would scrap the others
 4 and just use that. I believe that that
 5 is the test that should be used, and
 6 that is the only test that should be
 7 used.
 8 Q. But it doesn't go up for six
 9 hours; correct?
 10 A. Three hours.
 11 Q. Three hours. So if
 12 someone --
 13 A. Neither does the troponin.
 14 The troponin only has the advantage
 15 really on the back end, that it stays
 16 up longer. So when I order a troponin,
 17 it's commonly when I think the MI may
 18 be older than 24 hours and the troponin
 19 may still be up, where the CPK has gone
 20 back to normal.
 21 The troponin also has the
 22 disadvantage, unlike the CPK, that it
 23 doesn't give the cardiologist a good
 24 idea of infarct size. While they
 25 thought it was much more specific to

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1 cardiac muscle, and it probably is, the
2 troponin has just been a big
3 disappointment.

4 Q. Okay. You said a lot of
5 things there, so let me just break this
6 down a little bit. You said that the
7 CPK doesn't go up for three hours?

8 A. After an acute MI the CPK
9 generally starts going up, and the
10 troponin starts going up around that
11 same time too, three or four hours.

12 Q. So if you -- doing those
13 tests after say an hour of symptoms,
14 they are going to be negative?

15 A. That's right.

16 Q. So you have to at least keep
17 the patient there, in the presence of
18 symptoms, long enough to give those
19 tests a chance to go up?

20 A. Well, that's -- you know,
21 that's assuming that the patient comes
22 in immediately. And most patients who
23 come in, they have been having pain for
24 a while. So by the time the test is
25 drawn, very commonly it's already

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1 you seriously think it's cardiac.

2 Q. And how long a period of
3 observation?

4 A. Well, you would want to,
5 when you put a patient into chest pain
6 unit, if you seriously think it's
7 cardiac, and you are not able to exclude
8 it to your satisfaction based on all the
9 other parameters, you decide to observe
10 the patient, you can either admit them
11 to telemetry or the CICU or the chest
12 pain unit, and you at least do two
13 enzymes at least six to eight hours
14 apart, and serial EKGs.

15 Q. All right. So what's the
16 period of observation that you're
17 talking about, twelve hours?

18 A. Well, usually it's around
19 twelve hours if you have a chest pain
20 unit. We don't have a chest pain unit.
21 We don't use that. We don't feel that
22 -- considering all the things that are
23 important to us -- that that's the way
24 we are going at this current time. But
25 some places have done that, and that's

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1 three-four hours. But be that as it
2 may, you again use these tests based on
3 your suspicion of what's going on. And
4 the results, as such, you consider
5 whether or not they are significant.

6 Q. Right. So if the patient
7 comes in and says, I am having severe
8 chest pain, I have had it for an hour,
9 and you draw their blood when they get
10 there, all right --

11 A. Uh-huh.

12 Q. -- and their history is
13 accurate, you can expect that their CPK
14 is not going to be up yet; correct?

15 A. You cannot -- you cannot
16 decide that this is not an acute MI
17 just based on the fact that the enzyme
18 is normal. You have to consider all
19 the other factors; the EKG, your
20 history, et cetera. I would say that
21 the enzyme level is one of the least
22 important tests that you're doing in
23 that regard. And if you seriously think
24 that this is cardiac, then you need to
25 decide on a period of observation, if

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1 generally how they do it, twelve hours.

2 Q. So if you have a serious
3 concern that someone might be having an
4 acute MI, you're committed to a
5 twelve-hour observation period?

6 A. In these scenarios, yes,
7 where you have a chest pain unit. If
8 you have a high degree of suspicion --
9 and let me put it this way, most of the
10 time you just admit the patient, if you
11 really have a high degree. If it's not
12 as high, that is an option you have.

13 So you can send the
14 patient home, if you don't have a high
15 index of suspicion; you can put them in
16 the chest pain unit and send them home
17 after twelve hours; and then a lot of
18 people feel, well, how do you know it
19 wasn't just unstable angina? The enzyme
20 is normal. You haven't ruled out
21 coronary artery disease. So what do you
22 do? You do a stress test and then you
23 send them home. And that's usually what
24 happens in chest pain units.

25 Q. But if the patient has

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1 already had a stress test, they might
2 have a different test?
3 A. They might have no test.
4 Q. Right. It depends on what
5 the --
6 A. Depends on what the
7 cardiologist would decide to do, if you
8 were to get a cardiology consult.
9 Q. And that would be something
10 that would be available, cardiology
11 consult?
12 A. Sure.
13 Q. Now you -- we were talking
14 about when the troponin goes up. The
15 same would apply in the first three
16 hours, you wouldn't expect to see a
17 positive troponin?
18 A. Three to four hours, right.
19 Q. Okay.
20 A. So that the troponin is
21 positive, if you think it's positive,
22 but the CPK is normal, and they are
23 both done at the same time, it sort of
24 creates a dilemma for you: Gee, if you
25 think the troponin -- that's why I am

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1 saying the troponin was not positive.
2 They were both negative.
3 Q. Well, troponin is not present
4 in the blood of healthy people; correct?
5 A. I disagree with that. I
6 think that unfortunately you have
7 different people with different sized
8 hearts, and that I think now what the
9 thinking is is that troponin is normally
10 broken down, and when you do get these
11 slightly elevated levels, that it's
12 probably not positive, but they have a
13 bigger heart, they have more muscle.
14 That's why it's been a big
15 disappointment.
16 Q. So you would disagree with
17 the idea that troponin levels are
18 elevated in unstable angina because of
19 microinfarction?
20 A. Right, I disagree with that.
21 Q. And you disagree with
22 Braunwald and Antman and all those
23 experts?
24 A. I didn't like them in
25 college either, actually, but I do

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1 disagree with them.
2 Q. Would you agree with me that
3 Connie's troponin levels during her
4 admission of 12-16 are consistent with
5 unstable angina?
6 MR. STRONG: Objection.
7 THE WITNESS: No.
8 BY MS. MATTHEWS:
9 Q. Do they rule it out?
10 A. No,
11 Q. Well, isn't it a fact that
12 those are exactly what you would expect
13 to find if you measured troponin levels
14 in somebody with unstable angina?
15 A. I told you I don't believe
16 the troponins go up in unstable angina.
17 Unfortunately, nothing goes up in
18 unstable angina because there is no
19 damage in unstable angina,
20 Q. Would you agree that there
21 has been shown to be an elevated
22 mortality in people who come in with
23 elevated troponins of .4 nanograms per
24 milliliter who have unstable angina?
25 A. I have never seen that. I

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1 can tell you people who come in with
2 unstable angina will have mortality;
3 some of them will go in infarct and
4 die.
5 Q. Particularly if nobody
6 intervenes?
7 A. Probably more so if no one
8 intervenes, but some die anyway.
9 Q. Do you have any explanation
10 for the elevated myoglobin in this case?
11 A. So many people have elevated
12 myoglobins --
13 Q. Uh-huh.
14 A. -- that I wouldn't even want
15 to venture a guess as to what caused
16 her elevated myoglobin. But I can tell
17 you I don't believe it was due to any
18 myocardial damage. I do not believe
19 this woman had any myocardial damage
20 until she had her first heart attack.
21 Q. And so -- oh, until she --
22 all right, fine. So you don't agree at
23 all with the concepts of myo -- minor
24 myocardial damage and microinfarction,
25 et cetera?

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1 A. Microinfarctions should have
2 an elevation of the CPK-MB.
3 Q. Would you agree that
4 troponin-I can remain elevated for seven
5 to ten days after an episode of
6 myocardial necrosis?
7 A. I have never heard that. ■
8 have heard a maximum of 36 to 48 hours.
9 Q. That would be -- do you have
10 an opinion to a degree of certainty as
11 to how long a troponin **stays** elevated?
12 A. That's what ■ am saying.
13 The troponin -- the CPK stays up for
14 about 24 hours, maybe 36 hours, and that
15 the troponin may stay up another 24
16 hours past the CPK, approximately. I
17 don't believe it stays up five to seven
18 days.
19 Q. So if you're wrong about
20 those ranges, that would affect the
21 opinions you have given as to when
22 Connie Germanoff had an acute MI;
23 correct?
24 A. No. No. ■ would -- I don't
25 think that the CPK has -- ■ don't think

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1 the troponin or the myoglobin have any
2 relevance whatsoever to her having a
3 heart attack.
4 Q. No, I am talking about --
5 A. Because none of her troponins
6 were elevated to a level that is
7 considered pathological.
8 Q. I didn't mean that opinion.
9 I was referring -- I am sorry. I am
10 sure I blurred that all together. I am
11 talking about the opinion in your expert
12 report that you gave --
13 A. Oh, yes.
14 Q. -- in your second report
15 that --
16 A. That it was my opinion that
17 her MI was about five days old?
18 Q. Well, that I don't
19 understand. Is that your opinion?
20 A. Yes. My opinion is based on
21 the tamponade --
22 Q. Uh-huh.
23 A. -- my training and my
24 information on the amount of time it
25 takes to get a blow-out through the

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1 muscle --
2 Q. Uh-huh.
3 A. -- was not two to three
4 days, but approximately five days, four
5 to five days. It takes that long from
6 the time you first have a heart attack,
7 you get the necrosis, then you get the
8 weakening of the muscle.
9 Heart muscle **is** about this
10 thick (indicating); that it takes about
11 four to five days for a tamponade to
12 occur. So based just on the tamponade,
13 ■ was saying that ■ disagreed with the
14 pathologist who said two to three days;
15 that I thought it was more four to five
16 days. It had nothing to do with
17 troponin levels.
18 Q. All right. Well, let's talk
19 about that for a minute.
20 A. Sure.
21 Q. If it takes five days to
22 get --
23 A. Four to five days.
24 Q. Four to five days to get a
25 wall rupture, and she in fact had that

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1 at autopsy, and a tamponade?
2 A. No question about that
3 Q. Then you believe Connie
4 Germanoff had an MI four to five days
5 before her death?
6 A. I believe that she had some
7 sort of event, it could have been
8 ischemic, but some damage occurred at
9 that point to some extent that would
10 have been sometime after she left Dr.
11 Hatcher, and a couple days before she
12 came to see Dr. Hamrick.
13 Q. So that --
14 A. And then she had another
15 infarct. Now, that other infarct maybe
16 somehow was more peripheral to that and
17 allowed it to blow through. But the
18 infarct that she had -- and she did
19 definitely have a big infarct the day
20 she died, when she came back on the
21 26th, December 26th, 1999 -- that would
22 not have caused her to blow out her
23 heart. It was too -- that would have
24 been too fresh.
25 Q. So based on what you have

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1 just told me, had, for whatever reason,
2 Dr. Hamrick done enzymes when Connie
3 Germanoff --

4 A. They would have been back to
5 normal.

6 Q. Not based on what you just
7 told me about the troponin staying up
8 for four days.

9 A. I never said four days.

10 Q. Forty-eight hours?

11 A. Two days, 48 hours. They
12 would have been back to normal by that
13 time. If she had the infarct after she
14 saw Dr. Hamrick, which is around the
15 time I think she did, all right, and
16 that infarct could have -- that could
17 even have been silent, or she was maybe
18 having pain on and off, by the time she
19 came back to see Dr. Hamrick, had the
20 enzymes been done, I think they would
21 have been back to normal and they would
22 have again been negative.

23 Q. But if in fact the CPK stays
24 elevated -- CPK-MB stays elevated for 36
25 to 72 hours, it would have been elevated

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1 A. I think it's not totally
2 accurate, right.

3 Q. And I take it then --

4 A. You have to understand, they
5 create a very long range because some
6 people are having little infarcts that
7 continue, continue. If someone has an
8 infarct, and the infarct is over, they
9 go up and they go down fairly quickly,

10 Q. And you would, I take it,
11 disagree that the increase of troponins
12 persists for four to seven days?

13 A. Right. That's not what I
14 have been taught. What I have seen
15 numerous times is up to about 48 hours.

16 Q. So I take it then you
17 disagree with this article from the
18 National Heart Attack Alert Program, by
19 Dr. Antman, published in the Annals of
20 Internal Medicine?

21 A. Dr. Antman again. I
22 disagree.

23 Q. You don't like him much?

24 A. No. He was sort of a nerd
25 in -- don't put that on. Erase that.

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1 if Dr. Hamrick had measured it, correct?

2 A. If it had been 72 hours,
3 maybe, but I don't think so.

4 Q. And if in fact the troponin
5 stays elevated for four to seven days,
6 it certainly would have been elevated if
7 she had measured it?

8 A. It might have been. It
9 might have also been at that same .4,
10 .6. I can't say. But I don't believe
11 they would have been,

12 Q. And we don't know because
13 nobody measured them?

14 A. They weren't measured because
15 they weren't clinically indicated.

16 Q. Well, they weren't measured.

17 Do you agree with this --
18 I take it you don't -- peak values of
19 CPK are seen at 17 to 24 hours, and
20 levels return to the normal range in
21 approximately 36 to 72 hours?

22 A. Well, I believe to about 36,
23 maybe 48 hours.

24 Q. So you think what I just
25 read is wrong?

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1 He skipped a year at Columbia. That's
2 why we didn't like him.

3 Q. Would you agree that when a
4 49-year-old woman with multiple cardiac
5 risk factors, hyperlipidemia, smoker,
6 family history, presents to the
7 emergency room with severe chest pain,
8 that the standard of care mandates an
9 EKG?

10 A. Yes. I would say if a
11 patient comes in with risk factors and
12 has severe chest pain, and it is
13 definitely chest pain, that you should
14 do an EKG unless there is an obvious
15 other reason for the chest pain, like
16 pulled a muscle, reproducible pain, you
17 know, things of that sort.

18 Q. I take it then you would
19 also agree that if, on the day that
20 Connie Germanoff came in and saw Dr.
21 Hamrick, she had the exact same
22 presentation she had when she saw Dr.
23 Hatcher, that the standard of care
24 required an EKG?

25 A. Well, she didn't have the

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1 exact same presentation. She had a very
2 different presentation.

3 Q. No, if she had, though.

4 A. If she had? Yes, if she had
5 the exact same presentation I would have
6 said that the standard of care, she
7 should have done an EKG.

8 Q. Knowing that a plaque can
9 rupture at any time, and I take it
10 that's something ER doctors are aware
11 of?

12 A. In anybody.

13 Q. Don't -- every time somebody
14 presents with severe chest pain, when
15 they have risk factors, don't you need
16 to consider and rule out MI?

17 A. We consider it, we rule it
18 out. But it doesn't mean you have to
19 do an EKG. We have some people that
20 come in literally every week, who have
21 for years; they have got a mental
22 disorder, they have other causes of
23 chest pain, they have psychiatric
24 disorders. Chest pain is one of the
25 most common complaints we see. We

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1 A. She only saw them during
2 that one admission. She saw two
3 cardiologists during that one admission.
4 She had been followed by her family
5 doctor for about three months.

6 Q. Uh-huh.

7 A. And family doctors, I think,
8 have the same level of expertise in
9 diagnosing coronary ischemia as
10 emergency physicians do. And so they
11 will periodically get a cardiology
12 consultation on patients that are
13 somewhat puzzling.

14 When they get that
15 cardiology consultation, they rely very
16 heavily on it.

17 Q. Sounds like everybody relies
18 pretty heavily on the cardiologist

19 A. Well, of course. They are
20 the experts. That's all they do. They
21 don't take care of lacerations and dog
22 bites. All they do is take care of
23 heart problems. They have extensive
24 training, and we rely heavily on them.
25 And I think in most occasions that

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1 probably order EKGs in about 50 percent
2 of them.

3 We do get people that get
4 worked up; I have some patients that I
5 know by their first name who have
6 extensive workups -- some have had a
7 cath, some haven't -- that their
8 cardiologists have gone over time and
9 time again and are convinced they don't
10 have myocardial ischemia, and we see
11 them, and we don't order an EKG every
12 time.

13 Now, once in a while we
14 do, based on maybe some changes that
15 they tell us, what was the pain, what
16 wasn't the pain. But it doesn't mandate
17 an EKG every time you see them. It
18 depends what they are presenting with.

19 Q. Well, Connie Germanoff, she
20 didn't have any psychiatric problems
21 that you're aware of, did she?

22 A. Not that I am aware of, no.

23 Q. And she had actually only
24 seen a cardiologist one time, right, in
25 the hospital, this hospital once?

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1 reliance, particularly if you know the
2 cardiologist, is well put --
3 well-placed.

4 Q. Would you agree that
5 epigastric pain can be an anginal
6 equivalent?

7 A. It can be.

8 Q. Would you agree that minute
9 epigastric pain may be referred pain
10 associated with myocardial ischemia?

11 A. It can be.

12 Q. Would you agree, in a
13 patient with risk factors, this is
14 something an ER doctor needs to
15 consider?

16 A. Yes.

17 Q. Would you agree, if the pain
18 is epigastric and the patient is in a
19 group where coronary artery disease is
20 prevalent, a further cardiac history and
21 EKG should be obtained?

22 A. I wouldn't agree in all

23 cases. In certain cases it would be.

24 Q. If -- would you agree that
25 upper abdominal discomfort, even that is

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1 relieved by antacids, may still be
2 cardiac?
3 A It could be. It's pretty
4 rare.
5 Q. So --
6 A By the way, you know, it
7 depends. If it's truly relieved by
8 antacids, that's one thing. If it's
9 just angina that subsided on its own,
10 that's another. And that's an important
11 distinction that the physician needs to
12 make. Generally if antacids make it go
13 away, you can rely pretty well that this
14 was not cardiac.
15 Q. So you would disagree that
16 there is a standard in emergency
17 medicine that you can't rely on the
18 relief of symptoms with antacids to make
19 a determination that something is not
20 cardiac?
21 A Not the sole determination,
22 but I think it's a factor you can
23 heavily consider. And I do disagree
24 with some people, who are purists and
25 say you can never rely on that. I

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1 physician has a responsibility to obtain
2 old medical records to evaluate a
3 patient's complaint?
4 A When they are indicated and
5 when they are available, yes.
6 Q And you would agree in this
7 particular patient, given all her
8 cardiac risk factors, a prudent ER
9 doctor should look to see what kind of
10 workup there has been?
11 A Yes.
12 Q Are you aware that Dr.
13 Hamrick has testified that if she were
14 aware of the abnormal myoglobin and
15 troponins in the past, she would have
16 gotten another troponin?
17 A I recall that she had made
18 some mention that had she known the
19 troponin was -- the last troponin was
20 elevated, that she might have done
21 another troponin. I remember reading
22 that. That's her opinion.
23 Q Well, she is -- she said
24 that; correct?
25 A Yeah, I believe she did say

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1 think that those are academics that
2 don't work in the real world, like
3 Elliott Antman. No.
4 Q. Was Connie Germanoff's pain
5 on the visit when she saw Dr. Hamrick,
6 was that relieved by antacids?
7 A. It was partially relieved by
8 antacids, not completely relieved.
9 Q. Therefore, there was no
10 definitive evidence, was there, that her
11 pain was gastrointestinal?
12 A. That is correct.
13 Q. Would you agree that women
14 are more likely to have atypical
15 features associated with ischemia than
16 male patients?
17 A. They seem to.
18 Q. Would you agree that upper
19 abdominal discomfort, not completely
20 relieved with antacids, needs to be
21 considered as a symptom of myocardial
22 ischemia, particularly in women?
23 A. I would agree that it needs
24 to be considered.
25 Q. Would you agree that an ER

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1 that.
2 Q. So if in fact, again, Connie
3 Germanoff was having an acute MI when
4 she was in the emergency room --
5 A. If she were having an acute
6 MI, yes.
7 Q -- you would agree with me
8 that the troponin would probably be
9 elevated?
10 A. I don't know whether it
11 would have been elevated. It might have
12 been elevated if she was having an acute
13 MI and it was the right timing.
14 Remember, if it was less than three or
15 four hours, it wouldn't be elevated. We
16 know that -- we have established that
17 already.
18 Q. Right.
19 A. And if it was not much
20 later. But if you say an acute MI,
21 more than likely, if it had been past
22 that three-hour or four-hour window, it
23 would have been elevated to some degree.
24 Q. And if she would have kept
25 her for observation for twelve hours, it

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1 certainly would have been elevated, if
2 she were having an acute MI?
3 A If she were having an acute
4 MI.
5 Q Okay. Now, according to Dr.
6 Hamrick's dictation on 12-24 Connie had
7 had several workups for epigastric
8 burning. What were those workups?
9 A This I believe she did not
10 glean from the medical record, but she
11 got from the patient, who told -- had
12 told her and other people and the
13 paramedics that she had had -- that she
14 had GERD.
15 Q The fact that someone has
16 gastrointestinal reflux disease doesn't
17 mean they also don't have myocardial
18 ischemia?
19 A Right, gastroesophageal
20 reflux disease. You can have both.
21 And in fact it's my opinion she did
22 have both, and in fact that was the
23 problem. That's what fooled a lot of
24 people.
25 Q You would expect ER doctors,

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1 correct and the MI is two to three days
2 old, just assume that.
3 A Okay.
4 Q Then Connie Germanoff was
5 having an acute MI when she was in the
6 emergency room; correct?
7 A She could have. If it's two
8 days, depending on the time -- I don't
9 know whether it's a full two days from
10 the time she leaves until she has her
11 MI -- when she dies. It could be. Was
12 it actually a full 48 hours?
13 Q All right, let's figure it
14 out.
15 A Could we take a break while
16 I use the restroom and you can look at
17 that?
18 (Recess taken.)
19 BY MS. MATTHEWS:
20 Q Let's see if we can figure
21 this out.
22 MR. SWITZER: You asked
23 him about the autopsy, right?
24 MS. MATTHEWS: Actually, I
25 was right at this time trying to figure

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1 though, practicing ER doctors to know
2 patients can have both?
3 A Sure
4 Q Now, the fact that someone
5 is in sinus rhythm, that fact alone,
6 that doesn't rule out an MI, does it?
7 A No.
8 Q Is there any documentation at
9 all in the medical record for the 24th
10 of December, 1999, that would suggest to
11 you that Dr. Hamrick even considered the
12 diagnosis of myocardial infarction?
13 A I don't think there is
14 anything actually documented that she
15 did. She says in her deposition that
16 she did.
17 Q But she didn't document
18 anything?
19 A She didn't document anything
20 specifically. For example, she didn't
21 specifically say: I considered
22 cardiac etiology here, but I have ruled
23 it out in my mind. She does not say
24 that, no.
25 Q Now, if the autopsy is

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1 out what time she was in the emergency
2 room seeing Dr. Hamrick. I think it's
3 3:08 a.m. on the 24th.
4 THE WITNESS: Okay, and
5 she came back on the 26th at what time?
6 BY MS. MATTHEWS:
7 Q She Came back on the 26th at
8 8:57 a.m.
9 A On the 26th?
10 Q Correct. So that's --
11 A More than 48 hours.
12 Q Okay.
13 A Okay. So you have this --
14 if it was just two days, then that
15 would be different. If it was two days
16 plus, he said two to three days.
17 Q Right.
18 A So that would be a
19 difference. I can't say -- I can't say
20 a hundred percent. I think that
21 question maybe would be better posed to
22 the pathologist who did the autopsy
23 because it was more than -- it was --
24 wait a minute, I am sorry. It was
25 more than two days; it was two to three

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1 days. So if he is saying two days,
2 then -- no, it would be okay. It's
3 between two to three days.
4 He is saying two to three
5 days, and it was more than two days.
6 So I guess -- yeah, I guess that would
7 be okay.
8 Q. All right. So let me ask
9 the question again.
10 A. Okay. I'm sorry. I was
11 thinking incorrectly.
12 Q. Would you agree that if the
13 autopsy is correct and the infarct was
14 two to three days old, that Connie
15 Germanoff would have been having an
16 acute myocardial infarction at the time
17 she was in the emergency room seeing Dr.
18 Hamrick?
19 A. It -- according to him, yes.
20 Q. Would you agree there is no
21 evidence of gastrointestinal disease on
22 the autopsy?
23 A. Yes. There is usually not,
24 unless there is a perforated ulcer.
25 Q. What does an EKG cost?

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1 A. I don't know, probably about
2 \$60.
3 Q. What do cardiac enzymes cost,
4 a CPK?
5 A. A hundred dollars.
6 Q. Do you think that ER doctors
7 ought to be aware of the ACEP clinical
8 policy for the initial approach to
9 adults presenting with a chief complaint
10 of chest pain?
11 A. Well, having been the
12 chairman of the ACEP professional
13 liability committee twelve years ago, 15
14 years ago, and having been the ones that
15 sort of created the impetus to create
16 the chest pain guidelines, having been
17 intimately involved in those, thinking
18 it was probably a pretty good idea, we
19 subsequently think that the guidelines
20 were not terribly helpful and that they
21 are, we know, not followed, probably
22 because they were not terribly helpful.
23 So, unfortunately, my
24 answer to that is no, they are probably
25 not very helpful, and they just can't

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1 address the very, very different kind of
2 scenarios that occur to make them
3 worthwhile.
4 Q. So you don't think they
5 identify approaches to diagnosis and
6 therapy for which there is the best
7 scientific evidence?
8 A. I don't think there is the
9 best scientific evidence. That's the
10 problem.
11 Q. Isn't it a fact that even if
12 Connie Germanoff was only complaining of
13 epigastric pain, given the fact that
14 that can be an anginal equivalent, she
15 should have had an EKG?
16 A. Not necessarily.
17 Q. Well, you can answer every
18 question not necessarily.
19 A. Oh, I haven't. I think if
20 we counted them up, I have only answered
21 10 percent, maybe 5 percent, not
22 necessarily.
23 Q. Well, what does that mean,
24 not necessarily?
25 A. That means we see a

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1 tremendous number of patients with
2 epigastric pain, and the vast majority
3 of them are due to gastroesophageal
4 disease or gastrointestinal disease,
5 which, by the way is a far more common
6 disease entity, which is why half the
7 American population, or thereabouts,
8 takes Rolaids. That is a much more
9 common scenario. And in a woman who
10 has extensively been evaluated for
11 cardiac disease, it was logical and it
12 met the standard of care to not do an
13 EKG and to assume that it was
14 gastroesophageal in origin, not cardiac.
15 Q. How did Dr. Hamrick determine
16 that the epigastric pain, if Connie
17 Germanoff complained of epigastric pain,
18 how did Dr. Hamrick determine it was not
19 an anginal equivalent?
20 A. She did that based on the
21 signs and symptoms. Let me give you an
22 example. The patient came in, I
23 believe, moaning in agony. Cardiac
24 patients don't come in moaning in agony.
25 The chest pain of a cardiac event is

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1 generally, the vast majority of times, a
2 moderate pain, which is why it is most
3 commonly sloughed off to indigestion; a
4 very mild pain.

5 In general, when you see
6 patients in agony, that is not cardiac.
7 That is more typical of GERD or other
8 things. It's like the difference
9 between patients who come in with
10 appendicitis. The pain is not that of
11 agony. If the patient is writhing
12 around and grabbing their right lower
13 quadrant and flank, more typically it's
14 going to be a kidney stone, which is an
15 agony kind of a pain.

16 The patient gave a history
17 to the doctor of GERD. The patient had
18 been extensively been worked up for
19 cardiac disease. All those things came
20 together: The way the patient
21 looked, the way the patient felt, and
22 the doctor's clinical impression was:
23 This is GERD, this is not cardiac. And
24 in that scenario an EKG was not
25 indicated. And had it been done, in my

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1 and do not register as positive on EKGs.
2 Q. Well, you said all of her
3 EKGs were normal. The one done on the
4 26th wasn't normal.

5 A. No. That was the exception,
6 because then she was definitely having
7 an acute MI.

8 Q. So if she were having an
9 acute MI on the 24th, then there is
10 evidence, isn't there, that it would
11 have been positive, based on the fact
12 that --

13 A. Not necessarily. The infarct
14 she was having on the 24th would not
15 have been the same infarct she is having
16 on the 26th. All we know is the one on
17 the 26th was a massive heart attack and
18 she died.

19 Q. Uh-huh.

20 A. That did show changes.

21 Q. Have you looked at the
22 autopsy?

23 A. Yes.

24 Q. How many infarcts are there?

25 A. Well, I think that there

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1 opinion, it would have been normal
2 anyway, as all of her other EKGs had
3 been.

4 Q. Not if she were having an
5 acute MI, which the coroner says she
6 was.

7 A. She wasn't.

8 Q. Well, if the coroner is
9 correct, had she done the EKG, it would
10 have been abnormal just like it was when
11 she came back in.

12 A. If the coroner, a
13 nonclinician who doesn't treat
14 patients --

15 Q. Uh-huh.

16 A. -- said so, that's right.
17 But I disagree.

18 Q. Okay. But if the coroner is
19 right in the dating of the acute MI,
20 then the EKG, had it been done, would
21 have been positive; correct?

22 A. No, the EKG might have been
23 positive.

24 Q. Well, wasn't it --

25 A. People have acute infarcts

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1 probably were two, because we know she
2 had one the time she died because she
3 had ST elevation. That would not have
4 been a residual from the previous EKG,
5 in my opinion. So I think by
6 definition, if she had blown out her
7 posterior wall, in my opinion, she had
8 an infarct earlier, sometime shortly
9 after she left Dr. Hatcher.

10 Q. But you didn't do an
11 autopsy; correct?

12 A. I did not do an autopsy.

13 Q. And how many infarcts does
14 the person who did the autopsy describe?

15 A. Well, that's very
16 interesting. First of all, the patient
17 only had 70-percent lesions of her
18 coronary arteries, which is not what you
19 generally see with infarcts. But then
20 he basically sees an infarct with some
21 reasonably fresh thrombus, all right?

22 Now, I don't know whether
23 that was the one heart attack that she
24 died from at the very end, or whether
25 that contributed to the blowout of her

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1 posterior wall, which I think the
2 pathologist is saying had to at least be
3 two or three days old. So I don't have
4 an answer for that. You would have to
5 ask the pathologist.
6 Q. Well, in fact what the
7 coroner said is that there was an acute
8 right coronary thrombosis; correct?
9 A. That's probably true. So
10 you're interpreting that he meant there
11 is one?
12 Q. Well, I am just reading,
13 A. That doesn't mean there has
14 to only be one.
15 Q. Well, I am just reading
16 under microscopic examination, and what
17 I see documented is Page 7 of the
18 autopsy --
19 A. Okay, acute -- heart sections
20 show acute coronary thrombosis, right.
21 It doesn't say only one acute coronary
22 thrombosis, right,
23 Q. And then --
24 A. And then it says, C,
25 transmural acute infarct of the

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1 posterior wall, two to three days old.
2 Q. Right, with rupture?
3 A. With rupture. So I think he
4 is saying two. I don't know.
5 Q. Well, would you accept the
6 fact that whatever -- however many
7 infarcts Connie Germanoff had prior to
8 her death, they would be available to
9 view on autopsy?
10 MR. SWITZER: Objection.
11 THE WITNESS: They were --
12 they were documented on autopsy, yes.
13 BY MS. MATTHEWS:
14 Q. And you haven't looked at
15 any autopsy slides?
16 A. No.
17 Q. Are you familiar with the
18 criteria for dating myocardial
19 infarctions based on cardiac pathology?
20 A. No. Only that when there is
21 a blowout of the myocardium, that
22 according to what I have learned and
23 what I have read, it takes four to five
24 days.
25 Q. So you would disagree that

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1 it's most commonly seen at two to three
2 days?
3 A. Yes, based on my knowledge.
4 Q. And I take it then you would
5 disagree with Dr. Waller, who said the
6 occurrence is unpredictable as to when
7 it occurs?
8 A. Well, that was not what I
9 had learned either.
10 Q. Now, all the cardiac enzymes
11 are elevated on December 26th, the ones
12 drawn at 9:28; correct?
13 A. I think that's right, yes.
14 Q. Now, we don't have any other
15 determinations for that date, just one
16 set of values; correct?
17 A. Uh-huh. Yes.
18 Q. So we don't know if those
19 are peaks or troughs or somewhere on the
20 curve, right?
21 A. I don't think troughs are
22 the expression we use. Peaks or
23 valleys. Troughs, I think, is
24 antibiotics.
25 Q. Peaks or valleys.

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1 MR. SWITZER: And horses.
2 THE WITNESS: And horses.
3 BY MS. MATTHEWS:
4 Q. Okay. So is it fair to say
5 we don't know whether the numbers --
6 A. We don't know they are going
7 up, we don't know they are coming down.
8 Q. Okay. And we don't know how
9 long they have been up?
10 A. No. But we could sort of
11 predict sort of a range, but we don't
12 know for sure.
13 Q. So really the significance of
14 those numbers depends on how long each
15 of the diagnostic tests stays elevated?
16 A. Well, it really -- it really
17 doesn't matter if the CPK is 2,000
18 versus 3,000, it's really not going to
19 matter. I mean, the cardiologists use
20 those numbers sometimes to predict how
21 big the infarct is. But for an
22 emergency physician it doesn't matter.
23 It's markedly positive and, you know,
24 you're having a heart attack,
25 apparently. So how high they are, once

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1 they go clearly out of the normal range,
2 except for myoglobin, which we are
3 totally throwing out the window, it
4 doesn't really matter to the emergency
5 physician.
6 Q. Okay. But in terms of
7 trying to figure out when somebody's
8 infarct started or whether they are
9 extending another infarct --
10 A. Right. How high the level
11 goes will not determine, necessarily,
12 not to a major extent, how long they
13 stay elevated, with the exception,
14 obviously, if you get this massive
15 infarct and it goes up to 5,000, it
16 probably will take a little longer until
17 it goes back to normal, which may be
18 where they get the 72 hours. They are
19 really considering, you know, the very
20 ends of the bell-shaped curve.
21 And maybe that's where the
22 divergence is in what I learned, where
23 the upper limits of the time, which is
24 about 48 hours, and they are saying
25 troponin up to five days. Maybe they

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1 And I totally disagree with the two- to
2 threeday pathology decision. So that's
3 two reasons I disagree with them. The
4 patient did not have an infarct until
5 after she left Dr. Hamrick. Sometime
6 between the time she left Dr. Hamrick
7 and coming back on the 26th she had an
8 infarct. Now, it could have been five
9 hours before she had -- before she
10 presented on the 26th. And I tend not
11 to think that it was much before that
12 because I don't think she would have
13 stayed for another 48 hours in pain
14 before seeking help.
15 Q. So the coroner who looked at
16 these microscopic sections and used the
17 established criteria for looking at
18 those sections to date this myocardial
19 infarction, before there was a lawsuit
20 in this matter, is wrong?

21 A. I--

22 MR SWITZER: Objection.
23 THE WITNESS: I think he
24 is wrong, based on my knowledge, and I
25 think he is wrong based on what the

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1 are talking about massive elevations. I
2 can't tell you that.
3 But in general the level
4 they go up is not the clear determinate.
5 It's whether they go up or not.
6 Q. Well, can you tell me how
7 long these myoglobin -- I am sorry --
8 the troponin and the CPK have been
9 elevated, the ones that were measured on
10 the 26th?
11 A. The ones measured on the
12 26th, I can't tell you how long they
13 have been elevated. But I would venture
14 to say that they did not start to rise
15 any time before approximately 24 hours,
16 maybe 36 hours before the MI on the
17 26th. It was clearly after the patient
18 left Dr. Hamrick.
19 Q. Well, if in fact the patient
20 was having an infarct that was two to
21 three days old, those numbers could have
22 been up for two to three days?
23 A. Well, as we said before, I
24 don't think CPKs will stay up three
25 days. They stay up about 24 hours.

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1 cardiac enzymes showed when the patient
2 does have an infarct.
3 BY MS. MATTHEWS:

4 Q. Well, I don't understand,
5 based on what the cardiac enzymes show.

6 A. Well, the exception to that
7 would be is if there were two -- the
8 potential there could have been two
9 infarcts. So the cardiac enzymes don't
10 rule it out, that's right. But I

11 disagree with the two- to threeday.
12 Q. But you would agree with me
13 that the elevations in the cardiac
14 enzymes don't allow you to date this
15 infarct?

16 A. If there were two infarcts,
17 then -- well, it depends which infarct
18 you're talking about, I think it does
19 give you some parameters for the date of
20 the infarct for the last heart attack.
21 If there were two heart attacks, which
22 we think may be the case, the enzymes
23 on the second heart attack don't allow
24 you to date the first heart attack
25 because those enzymes have come and gone

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1 already.
2 Q. Based on your understanding
3 of ranges for how long these things --
4 A. Based on my understanding of
5 ranges.
6 Q. But again, if the troponins
7 can stay up for four to seven days,
8 then this number could have been
9 elevated for four days, and we don't
10 know because it wasn't measured; right?
11 A. If you believe that, that is
12 possible.
13 Q. And the same for CPK, if you
14 believe that the CPK can stay up for up
15 to 72 hours?
16 A. If you believe 72 hours,
17 then theoretically the CPK would have
18 been positive when she was seeing Dr.
19 Hamrick.
20 Q. All right. I am correct, am
21 I not, that Connie never had a
22 diagnostic test that ruled out cardiac
23 disease?
24 A. That ruled out cardiac
25 disease? You mean 100 percent ruled out

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1 it; they might have done a cath. Let's
2 say they find a vessel, they
3 angioplasty, they send her home, it
4 collapses. She could have come back the
5 next day.
6 Q. And had she come back with a
7 history of angioplasty and recurrent
8 symptoms --
9 A. That would have been
10 different.
11 Q. All right. And again, what
12 is the basis of your statement that
13 cardiac tamponade and ruptured wall
14 would have required an MI to be five
15 days old?
16 A. That's based on my
17 understanding of the physiology of the
18 heart and the physiology of an infarct.
19 Q. Can you cite me to any
20 reference?
21 A. I would have to look. No.
22 But over the years, reading articles,
23 studying, what I was taught in medical
24 school very specifically from
25 pathologists, it takes five days. And

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1 cardiac disease?
2 Q. (Nodding head up and down.)
3 A. There is no test that 100
4 percent rules out cardiac disease.
5 Q. And she didn't have the best
6 test; correct?
7 A. She did not have the most
8 accurate test.
9 Q. You say in your report that
10 no testing done previously indicated any
11 definite cardiac etiology for her
12 ongoing symptoms. Well, isn't it a fact
13 that the converse is also true:
14 No diagnostic testing had been done that
15 definitively ruled out a cardiac
16 etiology?
17 A. That would be true no matter
18 what test she had.
19 Q. Because if a cardiac etiology
20 had been found, presumably the doctors
21 would have treated it?
22 A. Right.
23 Q. So she wouldn't have been in
24 the emergency room to begin with?
25 A. Well, they might have treated

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1 when you think about it, you would
2 expect it to take a long time because
3 you're talking about a thick muscle, you
4 know; you're talking about a piece of
5 steak that's this thick (indicating).
6 And then you lose the ischemia to it --
7 you lose the blood flow to it, you have
8 got to get the degeneration. And there
9 is a point where you start getting a
10 scar formation, if it doesn't blow out.
11 But it needs to really be
12 weakened significantly till it just
13 blows out, you know. You have a hose,
14 you use it for years and years, it
15 doesn't blow out the second day you use
16 it. My understanding was, everything
17 that I ever studied and learned about
18 this was that it takes about five days;
19 that classically tamponade occurs around
20 the fifth day.
21 Q. Do you hold that opinion to
22 the same degree of medical certainty as
23 all your other opinions?
24 A. Probably not to the same
25 level because I am not a cardiologist

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DEPOSITION OF NORMAN SCHNEIDERMAN, M.D.

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1 and I am not a pathologist. But I feel
2 fairly secure on that.

3 Q. So you're not familiar with
4 the literature that states that the peak
5 incidence of rupture is in two to three
6 days?

7 A. I'm not familiar with that
8 literature.

9 Q. And you disagree with it
10 even if it were out there?

11 A. Well, I would be very happy
12 to reassess that, if it was provided to
13 me. I have not done a literature
14 search on the subject in the recent
15 past.

16 Q. Would you defer on that
17 opinion to a cardiac pathologist?

18 A. Not necessarily. And, you
19 know, you would have to -- we would
20 have to talk to a number of different
21 people. I mean, I know specifically
22 that I have read and I have been taught
23 over the years that five days is the
24 approximate time frame. I have seen
25 patients who came into the emergency

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1 A. Yes. And I thought that had
2 to do with microscopic studies, et
3 cetera, things of that sort. I don't
4 think it's a science. I think there
5 are parameters that are fairly wide,
6 But I think that's different than a
7 tamponade, where -- which has nothing to
8 do with the microscopic evaluation, it
9 has to do with the range of days it
10 generally takes, and maybe it is a
11 little wider. Maybe it's two to five
12 days, and there are those people that
13 believe five days, and some people that
14 believe two days. But I had always
15 heard and read four to five days.

16 Q. If the coroner is right and
17 the MI is two to three days old, then
18 your opinion that Connie Germanoff was
19 not having an MI as the source of her
20 epigastric pain would be incorrect;
21 true?

22 MR. SWITZER: Objection.

23 THE WITNESS: If the
24 pathologist is right, then it is quite
25 possible that she was having an infarct

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1 room, who died, and I remember seeing
2 reports from pathologists that said
3 patient had a tamponade, and placed it
4 at four to five days. So I have gotten
5 that number from multiple sources over
6 multiple years.

7 Q. I take it then you wouldn't
8 defer to an opinion of a cardiologist
9 either on that subject?

10 A. Well, I might. But I think
11 that there might be cardiologists that
12 say five days too. I think we would
13 have to really get a lot of literature
14 and tack that down. I wouldn't just
15 defer to one cardiologist or one
16 pathologist.

17 Q. Wouldn't the best person to
18 determine how old this infarct
19 be -- was -- be a pathologist?

20 A. You would think that is
21 true, if that pathologist is right.

22 Q. Are you aware that there are
23 well-established criteria for dating
24 infarcts that have been around for
25 years?

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1 at the time. That does not mean that
2 her EKG and enzymes would have been
3 positive. That is not to say that
4 there was a deviation from the standard
5 of care in not doing an EKG and
6 enzymes. But your statement would be
7 correct that at the time her epigastric
8 pain was not GERD, as I think it was,
9 but was in fact coronary ischemia, and
10 in fact an infarct.

11 BY MS. MATTHEWS:

12 Q. And just dealing with
13 probabilities, had an EKG and enzymes
14 been done on the 24th -- if the coroner
15 is right and Connie Germanoff was having
16 an acute MI -- they probably, meaning 51
17 percent, would have been abnormal;
18 correct?

19 MR. SWITZER: Objection.

20 MR. STRONG: Objection.

21 THE WITNESS: If she was
22 having an infarct, and if the timing was
23 right in that it was more than three
24 hours old, or four or five hours old,
25 then they would probably have been

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1 positive in some fashion.
2 BY MS. MATTHEWS:
3 Q And if she had been observed
4 for twelve hours, they certainly would
5 have been positive; correct?
6 A If she was having an
7 infarct, then they would certainly at
8 some time during that time span become
9 positive, yes.
10 Q So where you state in your
11 opinion that if Dr. Hamrick had ordered
12 enzymes on the 24th, they would have
13 been normal, as they had been
14 previously, that assumes that the
15 coroner is wrong?
16 A That is correct.
17 MS. MATTHEWS: I don't have
18 any other questions.
19 MR. STRONG: Anybody on
20 the telephone have questions?
21 MR. KREMER This is
22 Stephan Kremer. I do not.
23 MR. ROSE: Mark Rose. I
24 don't.
25 MS. ATWELL: This is

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1 That's all I have.
2 MS. MATTHEWS: Anybody
3 else?
4 Bye.
5 (Thereupon, the deposition was concluded
6 at 3:42 o'clock p.m.)
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1 Cheryl. I don't.
2 MR. HOWES: Mark, do you
3 want to talk with me, or should we
4 just --
5 MR. ROSE: Only if you do.
6 MR. HOWES: No, I have
7 nothing to talk about.
8 MR. ROSE: All right.
9 MR. HOWES: Thank you.
10 MR ROSE: Thanks.
11 CROSS-EXAMINATION OF NORMAN
12 SCHNEIDERMAN, M.D.
13 BY-MR.STRONG:
14 Q Doctor, you're a
15 Board-certified emergency room
16 physician; correct?
17 A Yes, I am.
18 Q And your practice is
19 primarily here at Miami Valley
20 Hospital's Emergency Department?
21 A It is solely here.
22 Q And you're licensed to
23 practice medicine in the State of Ohio?
24 A Yes, I am.
25 MR. STRONG: Thank you.

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1 CEFARATTI GROUP FILE NO. 5440
2 CASE CAPTION: STEPHAN GERMANOFF, ETC.
3 VS. AULTMAN HOSPITAL, ET AL
4 DEPONENT: NORMAN SCHNEIDERMAN, M.D.
5 DEPOSITION DATE: JULY 5, 2001
6
7 (SIGN HERE)
8 The State of Ohio,)
9 County of Cuyahoga) SS:
10 Before me, a Notary Public in and
11 for said County and State, personally
12 appeared NORMAN SCHNEIDERMAN, M.D. who
13 acknowledged that he/she did read
14 his/her transcript in the above-
15 captioned matter, listed any necessary
16 corrections on the accompanying errata
17 sheet, and did sign the foregoing sworn
18 statement and that the same is his/her
19 free act and deed.
20 IN TESTIMONY WHEREOF, I have
21 hereunto affixed my name and official
22 seal at , this
23 day of , A.D. 2001.
24
25 Notary Public Commission Expires

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1		ERRATA SHEET
2	PAGEUNE	CORRECTION
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