

COMMON PLEAS COURT
FRANKLIN COUNTY
STATE OF OHIO

- - -
Yavonna Lyons, Individually :
and as Administratrix for :
the Estate of Jeffrey Lyons, :
Deceased, :
:
Plaintiff, :
:
vs. : Case No. 02CV-07-7550
:
Capitol City Cardiology, :
Incorporated, et al., :
:
Defendants. :
- - -

April 20, 2004

Deposition of

Steven Joseph Yakubov, M.D.

a witness herein, called by the
Plaintiffs for cross-examination under the
applicable Rules of Ohio Civil Court Procedure,
taken before me, Beth A. Higgins, a Registered
Professional Reporter and Notary Public in and for
the State of Ohio, taken by agreement of counsel and
pursuant to Notice, at the offices of the witness,
3545 Olentangy River Road, Columbus, Ohio 43214, on
Tuesday, April 20, 2004, commencing at approximately
4:40 p.m.

- - -

1 APPEARANCES:

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On behalf of Defendants
 Barney Beaver, M.D., and
 Capitol City Cardiology,
 Incorporated.

1 Tuesday Afternoon Session
 2 April 20, 2004
 3 4:40 p.m.

4 ---
 5 STIPULATIONS

6 It is hereby stipulated by and between
 7 counsel for the respective parties herein that this
 8 deposition of Steven Joseph Yakubov, M.D., may
 9 be taken at this time by the Notary; that said
 10 deposition is being taken by agreement of counsel
 11 and pursuant to Notice; that said deposition may be
 12 reduced to writing in stenotypy by the Notary, whose
 13 notes may thereafter be transcribed out of the
 14 presence of the witness; that proof of the official
 15 character and qualifications of the Notary, the time
 16 and place of the taking of said deposition are
 17 hereby waived.

18 ---
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 24

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9 EXHIBITS

10 Deposition Exhibits Marked Referred
 11 (No exhibits marked)
 12
 13 ---
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1 PROCEEDINGS

2 ---

3 STEVEN JOSEPH YAKUBOV, M.D.,
 4 being by me first duly sworn, as hereinafter
 5 certified, deposes and says as follows:
 6 CROSS-EXAMINATION

7 BY MR. KELLEY:

8 Q. Can you state your name, please, for the
 9 record?

10 A. Steven Joseph Yakubov.

11 Q. Dr. Yakubov, my name is Jay Kelley. I am
 12 here today to take your deposition in the matter of
 13 Lyons versus several defendants. I believe you're
 14 here on behalf of Dr. Auerbach, if I understand
 15 correctly.

16 A. Correct.

17 Q. What I'm going to do today is take your
 18 deposition. I know you've been through this process
 19 before, but I want the ground rules on the record.
 20 Okay?

21 It's a verbal question-and-answer session;
 22 and I say verbal, because we have to use words to
 23 describe our answers. Such things as head nods,
 24 pointing, or gesturing don't transcribe well. So

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1 try to use words for all your answers. Okay?

2 A. Fine.

3 Q. I'm not here to rush or trick you, so feel

4 free to utilize the records which are in front of

5 you or any notes that you brought before you answer

6 a question. Okay?

7 A. Yes.

8 Q. If I phrase a question either inartfully

9 or you just simply don't hear it or understand it,

10 be sure to let me know before you answer it and I'll

11 be happy to repeat it or rephrase it. Fair enough?

12 A. Yes.

13 Q. Prior to your deposition today, what

14 materials have you been provided?

15 A. I have -- I have the deposition of

16 Dr. Albert Kolibash, which I just received about

17 five minutes ago, so I have not read it.

18 Q. Okay.

19 A. I have the records from Capitol City

20 Cardiology.

21 Q. Let's go slowly as you go through it.

22 Within the Capitol City Cardiology

23 notes -- records, do you have any notations?

24 A. No.

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1 Q. Okay. Do you ever have a custom of making

2 notations on any of the medical records?

3 A. No.

4 Q. Have you been provided any summaries of

5 those records?

6 A. No.

7 Q. Okay. What's the next thing?

8 A. The next thing is the -- the deposition of

9 Dr. Samir Tulebaev.

10 Q. And do you have any notes within that

11 deposition transcript?

12 A. No.

13 Q. Do you know Dr. Tulebaev?

14 A. No.

15 Q. Okay.

16 A. I have the Fayette County Hospital medical

17 records that I've been provided.

18 Q. I see that they're kind of loose.

19 A. Yes.

20 Q. Has any portion of them been left behind

21 or anything of the sort?

22 A. No.

23 Q. Okay.

24 A. Everything that I've ever been given is

Page 8

1 right here today.

2 MR. DILLON: With one exception.

3 A. We have a little bit of a debate. I

4 can't -- I can't find the --

5 Q. Let me guess. Auerbach's depo?

6 A. No. Plaintiff's --

7 MR. DILLON: Garrett's.

8 A. Garrett's.

9 Q. All right. So the next thing is, within

10 those Fayette records, do you believe those are a

11 complete copy of the records from your review?

12 A. As far as I can tell.

13 Q. Okay. Any notations in them?

14 A. No.

15 Q. Any summaries of those records that were

16 provided to you?

17 A. My own notations or summaries, I have

18 none.

19 Q. Okay. Did they provide you with any

20 summaries of the records?

21 A. Meaning Mr. Dillon?

22 Q. Mr. Dillon, someone from his office?

23 A. The only summary that he's ever given me

24 is just a -- a letter from the office regarding the

Page 9

1 handling of the protected health information, and I

2 think that's it.

3 Q. Okay.

4 A. That's it.

5 Q. We'll get to that, I guess, in due order.

6 The next thing you have is whose depo?

7 A. Barney Beaver.

8 Q. Okay. Do you know -- I noticed you called

9 him Barney Beaver.

10 Do you know Dr. Beaver?

11 A. Well, I called him Barney Beaver because

12 it says Barney Beaver.

13 Q. Okay.

14 A. I do know him. Yes.

15 Q. Well, I know sometimes people call him

16 Doctor --

17 A. Oh, okay.

18 Q. -- or Mister. You seemed like you used a

19 friendly description of his name.

20 A. I -- I -- I know him, but it says

21 "Deposition of Barney Beaver."

22 Q. Okay. How long have you known him?

23 A. Ah, I don't know. Maybe eight or ten

24 years, somewhere in there.

Page 10

1 Q. And have you ever practiced with him?
 2 A. No.
 3 Q. Ever do any training with him?
 4 A. No.
 5 Q. Did he do any of his training under you at
 6 any point?
 7 A. No.
 8 Q. The group that he is at, do you guys ever
 9 have any sort of referrals of patients back and
 10 forth?
 11 A. No. We're at kind of separate
 12 institutions.
 13 Q. Is there a local cardiology professional
 14 association that you're both members of?
 15 A. Uhm, there's -- I don't think there's any
 16 local cardiology professional membership. He may be
 17 part of the Columbus Medical Association or OSMA,
 18 but I'm not very active in either of those, so I
 19 wouldn't -- I don't go to meetings with him on a
 20 regular basis.
 21 Q. Okay. Do you have any notes from his
 22 depositions?
 23 A. No.
 24 Q. Have you ever spoken to him about this

Page 11

1 case?
 2 A. No.
 3 Q. What's the next stuff you have?
 4 A. Well, the next is the handling of
 5 protected information, and then it is the -- the
 6 letter from Mr. Dillon's office stating what he has
 7 included to me.
 8 Q. Okay.
 9 A. And then finally is the deposition of
 10 Dr. Auerbach.
 11 Q. Okay. Any notes within Dr. Auerbach's
 12 deposition?
 13 A. No.
 14 Q. Same kind of questions as with Dr. Beaver.
 15 Do you know Dr. Auerbach?
 16 A. Yes.
 17 Q. Okay. How long have you known him?
 18 A. Uhm, eight or ten years.
 19 Q. Have you ever socialized with him?
 20 A. No.
 21 Q. Obviously the fact that we're here today,
 22 you're serving as an expert witness on his behalf.
 23 Correct?
 24 A. That is correct.

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1 Q. And he's somebody who you know and would
 2 recognize if you saw him in the community?
 3 A. Yes.
 4 Q. Do you ever do plaintiffs' work or do
 5 cases on behalf of patients who are claiming to be
 6 injured?
 7 A. I have never been asked.
 8 Q. Okay.
 9 A. Oh, I -- I take that back.
 10 I was asked once on a -- on a case where I
 11 was the defense -- I'm -- was the defense expert,
 12 and they dropped the -- the defendant and asked me
 13 to serve for the plaintiff.
 14 And I was asked on another case to give an
 15 opinion, and I didn't think there was a case there.
 16 Q. Okay.
 17 A. But I did review the records thoroughly.
 18 And the attorney felt there was a much better case
 19 than I did. And since we didn't quite agree on it,
 20 I thought he would be better off finding an expert
 21 that was more suitable for the case.
 22 Q. Okay. The plaintiffs' cases that you
 23 reviewed, were they ever on behalf of patients here
 24 in Columbus?

Page 13

1 A. No.
 2 Q. Okay. Would you review a case for a
 3 patient in Columbus against a local physician here?
 4 A. Yes.
 5 Q. Okay. Would you review a case against
 6 Dr. Auerbach and Dr. Beaver?
 7 A. Yes.
 8 Q. Even though you know them and have had an
 9 eight- to ten-year acquaintance with them?
 10 A. Yes.
 11 Q. Okay. You don't believe that relationship
 12 in any way biases you or colors you one way or
 13 another in your review of a case?
 14 A. I -- I -- It might. It might. But
 15 it's -- I never interact with them. I don't
 16 interact with them on a regular basis. I could go
 17 clearly years without seeing them.
 18 Q. But the reality is you would eventually
 19 again see them and have to confront someone who you
 20 were critical of.
 21 A. Right. I think that there is value to
 22 reviewing cases. I think that if you have competent
 23 physicians reviewing cases, you can make competent
 24 decisions.

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1 Q. In this -- this case here, have you ever
 2 prepared a report?
 3 A. I was never asked to prepare a report.
 4 Q. Do you have any notes that you generated?
 5 A. No.
 6 Q. Okay. So you just reviewed the stuff and
 7 have kind of kept it in your own mind?
 8 A. Yeah.
 9 Q. Okay. And you don't have a --
 10 And by "notes," I'm including anything on
 11 a word processor or otherwise.
 12 A. I would assume that's what you meant.
 13 Q. Okay.
 14 A. I have no notes.
 15 Q. You reviewed the care and treatment, I
 16 assume, starting on June 18th?
 17 A. Yes.
 18 Q. Okay. And let me ask you first, what is
 19 your definition of standard of care?
 20 A. Standard of care is the care that would be
 21 provided to a patient that is consistent with
 22 guidelines and is consistent with the care that is
 23 characteristic of your community, what a competent
 24 cardiologist in my -- in my field would be expected

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1 to provide to that patient under similar
 2 circumstances.
 3 Q. And you have standard-of-care opinions in
 4 this case, I assume?
 5 A. I do.
 6 Q. Okay. Do you have any standard-of-care
 7 criticisms of any of the physicians involved in this
 8 case?
 9 A. No.
 10 Q. Do you believe that they all met the
 11 standard of care or there are certain people who you
 12 just simply have no opinions on?
 13 A. I was really only asked to make an opinion
 14 about Dr. Auerbach.
 15 Q. How about proximate causation? Do you
 16 have an opinion as to the cause of death for
 17 Jeffrey Lyons?
 18 A. Yes.
 19 Q. And when I ask you an opinion, I'm going
 20 to ask you only to give me opinions if you hold them
 21 to a reasonable degree of medical probability.
 22 Okay?
 23 A. Sure.
 24 Q. And that's obviously based on your

Page 16

1 education, your training, and your review of the
 2 records.
 3 A. Okay.
 4 Q. First, what is your opinion to a
 5 probability as to what the cause of death for
 6 Jeffrey Lyons was?
 7 A. I believe he had sudden cardiac death.
 8 Q. And obviously any cardiac death is going
 9 to be secondary to an arrhythmia.
 10 What caused his arrhythmia?
 11 A. Probably the myocardial infarction.
 12 Q. Okay. And the myocardial infarction, not
 13 to keep going down the road, but was that caused by
 14 ischemia or a supply-and-demand issue?
 15 A. I don't know.
 16 Q. What are the possible causes for his
 17 myocardial infarction?
 18 A. He probably had a blockage of an artery
 19 that caused some myocardial damage.
 20 Q. Okay. And do you have an opinion as to
 21 which of the coronary arteries? And I don't mean
 22 "which" to be only one. There may have been
 23 multiples.
 24 Do you have an opinion as to the

Page 17

1 distribution?
 2 A. Yeah. You know, can I see -- I wanted to
 3 see the stress test result one more time.
 4 Do you mind if I close this door?
 5 Q. Absolutely not.
 6 (Discussion held off the record.)
 7 A. Yes. I'm sorry. Can you repeat the
 8 question?
 9 Q. Okay. Do you have an opinion as to -- and
 10 again, this is to a probability -- as to what the
 11 distribution of his coronary disease was?
 12 A. Yes.
 13 Q. And what is your opinion?
 14 A. My opinion was it involved the inferior
 15 wall of the left ventricle.
 16 Q. Okay. And the coronary artery that would
 17 have been serving that, would that be the LAD or
 18 would that be the circumflex?
 19 A. It would be in most instances the right
 20 coronary artery or one of its branches.
 21 Q. Okay. Do you believe that that is
 22 the same area that caused him chest pain and
 23 what has been referred to in the depositions as
 24 a non-Q-wave MI on June 18th?

Page 18

1 A. Uhm, most likely.
 2 Q. Okay. Do you agree to a probability that
 3 on June 8 -- on or about June 18th, the first day
 4 when he presented to the hospital, that he had had a
 5 non-Q-wave myocardial infarction?
 6 A. He had a non-ST-segment elevation
 7 myocardial infarction.
 8 Q. Okay. That's not something that you need
 9 the benefit of retrospect to know. That was
 10 something that you could tell from his clinical
 11 presentation combined with his laboratory values
 12 that day. Correct?
 13 A. I'm not as clear on that comment. I would
 14 make my assessment based upon a retrospective
 15 analysis of this case.
 16 Q. Okay. And what is it in retrospect that
 17 makes you conclude that he had a non-ST-segment
 18 myocardial infarction on June 18th, to a
 19 probability?
 20 A. I believe the Cardiolite scan is very
 21 helpful in helping me make that diagnosis clearly.
 22 Q. Did you actually look at the images from
 23 the Cardiolite scan?
 24 A. No.

Page 19

1 Q. Okay. You're simply relying on the report
 2 that describes a fixed defect and also an area of
 3 reversibility of the ischemia?
 4 A. Yes.
 5 Q. And the area where you believe the non-ST
 6 infarct was that was on the 18th, would that be
 7 represented by the area of reversible ischemia or
 8 the area where the fixed defect was?
 9 A. The -- I thought the Cardiolite was done
 10 on a different date.
 11 Q. I know the Cardiolite was done on a
 12 different day.
 13 I'm ask -- You said that that nuclear
 14 image --
 15 A. Yes.
 16 Q. -- allowed you to conclude that there was
 17 to a probability a heart attack on June 18th, an MI.
 18 A. Yes.
 19 Q. I am asking, what about that image allowed
 20 you to conclude it? Was it the fixed defect or was
 21 it the area of reversible ischemia?
 22 A. The fixed defect.
 23 Q. Okay. So you interpret that the fixed
 24 defect on that Cardiolite scan is representative of

Page 20

1 the damage that was done from that heart attack.
 2 A. Yes.
 3 Q. The area of reversible ischemia, is that
 4 representative of areas where there's a
 5 supply-and-demand issue between rest and stress?
 6 A. I don't know what you mean.
 7 Q. Okay. When we talk about reversible
 8 ischemia, let's make sure that I understand it
 9 correctly. I understand that reversible ischemia
 10 in a nuclear stress test, you're actually looking
 11 at sections cut of the heart, and you're looking at,
 12 for lack of a better term, the doughnut at rest
 13 versus the doughnut at stress to see if, in fact,
 14 there is a difference between rest and stress for
 15 reperfusion.
 16 A. Okay.
 17 Q. Is that accurate?
 18 A. Simplistically, yes.
 19 Q. I keep it as simple as possible so that I
 20 can understand it.
 21 A. Okay.
 22 Q. That is reversible ischemia, where there
 23 is a difference between the resting and the stress
 24 images.

Page 21

1 A. Most instances.
 2 Q. I am asking, the area where there was
 3 reversible ischemia seen in this case on
 4 Jeff Lyons's scan, are you able to conclude that
 5 that was representative of ongoing coronary artery
 6 disease?
 7 A. No.
 8 Q. Okay. Do you have any opinion as to why
 9 he had reversible ischemia on the Cardiolite stress
 10 test?
 11 A. Well, do you mind if I just read the
 12 cardiac stress test?
 13 Q. No, absolutely not.
 14 A. The cardiac stress test interpretation is
 15 that there is a small amount of margin reversibility
 16 of the distal aspect.
 17 Now, the distal aspect is in reference to
 18 the distal aspect of the inferior wall, if I'm
 19 reading this interpretation correctly.
 20 Q. Okay. So you believe that there --
 21 A. He has a very small amount of margin
 22 reversibility, which is characteristic of
 23 infarctions.
 24 Q. So that's just further evidence that an

Page 22

1 infarction has happened?
 2 A. Yes.
 3 Now, the fixed defect implies that there
 4 had been a myocardial infarction.
 5 Q. When we say that a marginal amount of
 6 reversibility, does that mean, though, that there's
 7 still heart tissue which is not getting blood during
 8 stress but at rest is able to reperfuse and is still
 9 not infarcted?
 10 A. Perhaps.
 11 Q. Okay.
 12 A. Not always.
 13 Q. What else could that reversibility account
 14 for?
 15 A. It's not uncommon to have a small amount
 16 of margin effect even in a completed infarction.
 17 He's very early from the time of the infarction, so
 18 that area, it can take on many different meanings.
 19 Q. Could it still be the progression of death
 20 from that infarction?
 21 A. Yes.
 22 Q. Looking at -- While we're on the
 23 Cardiolite image, we might as well finish off there.
 24 It does appear that he has good left ventricular

Page 23

1 function within an ejection fraction of 55 percent.
 2 Correct?
 3 A. Yes.
 4 Q. Do you believe, as of June 26th of 2000,
 5 which is when the Cardiolite stress test was done,
 6 knowing that an exercise stress test had been done
 7 before that, that there was any significant heart
 8 muscle damage that had occurred that would have
 9 impacted upon his quality of life?
 10 A. The amount of heart muscle damage,
 11 according to the stress test, was very small. His
 12 prognosis typically in this type of report is quite
 13 good.
 14 Q. One of the things, though, for his
 15 prognosis to be good is to stabilize the heart, make
 16 sure there's adequate perfusion so there's not
 17 another infarction.
 18 A. Maybe.
 19 Q. We'll come back to that.
 20 A. Okay.
 21 Q. What is angina?
 22 A. Uhm, angina typically refers to -- what I
 23 talk about is angina pectoris, chest pain.
 24 Q. And what is that symbolic of; or to you as

Page 24

1 a clinician, what does that raise your index of
 2 suspicion for?
 3 A. As a cardiologist, my main job is to make
 4 sure that chest pain is or is not related to the
 5 heart.
 6 Q. And chest pain or angina which is
 7 consistent with, you know, the heart as an
 8 underlying cause, does it have a typical type of
 9 presentation?
 10 A. Yes.
 11 Q. And can you describe that for me?
 12 A. It's chest pain that usually is
 13 substernal. It's often not so much of a pain but a
 14 discomfort, a discomfort that's difficult to put
 15 into words often. It can be a pressure-like
 16 sensation. It often has modifying factors.
 17 Physical activity tends to bring it on, rest tends
 18 to relieve it, sublingual nitroglycerin can relieve
 19 it; and it can be radiating to the jaws, to the
 20 arms, to the back. It can be in various places.
 21 Q. As far as assessing whether or not
 22 somebody has had a myocardial infarction or the
 23 heart as a cause, I guess, for their chest pain, is
 24 an EKG in and of itself diagnostic one way or

Page 25

1 another?
 2 A. It can be.
 3 Q. Can an EKG be normal, though, and a
 4 patient still be having a myocardial infarction?
 5 A. Yes.
 6 Q. The EKG which was performed on June 18th,
 7 do you know how many leads that was?
 8 A. This is not a trick question, right?
 9 Q. No.
 10 A. Twelve lead.
 11 Q. Okay.
 12 A. Okay. I --
 13 Q. Why did you think it was a trick?
 14 A. They're all 12 leads unless something --
 15 I've never seen anything but a 12-lead in a long
 16 time.
 17 Q. And are there specific types of myocardial
 18 infarctions that a 12-lead EKG is not going to be
 19 sensitive for?
 20 A. The -- the least sensitivity that it
 21 displays is in posterior myocardial infarctions.
 22 Q. Another way to test for a myocardial
 23 infarction is through laboratory testing, enzymes
 24 particularly, and markers.

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1 A. Correct.
 2 Q. What is troponin?
 3 A. It is a cardiac enzyme.
 4 Q. Is troponin considered the gold standard
 5 as far as the utilization of enzymes to detect
 6 whether or not there's been loss of heart muscle?
 7 A. I -- I think troponin and CPK-MBs are --
 8 are the measures that we do, that we look at to
 9 determine myocardial damage.
 10 Q. The troponins in this case went from 1 to
 11 1.8 to 1.9.
 12 Do you believe that those represented an
 13 increase in the troponin?
 14 A. Yes.
 15 Q. Okay. Do you believe that that was
 16 related to loss of heart muscle on June 18th and
 17 June 19th?
 18 A. Yes.
 19 Q. What else can account for that elevation
 20 in troponin other than a myocardial infarction?
 21 A. There are other -- there are other causes
 22 of them.
 23 You can have congestive heart failure, you
 24 can have left ventricular wall stress that are

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1 brought on by a variety of factors, and then you can
 2 have renal insufficiency. And those are just a few
 3 of the things that can cause spurious elevations in
 4 troponins without a true myocardial infarction being
 5 present.
 6 Q. When it's brought on by a renal cause,
 7 renal insufficiency, is it usually accompanied by a
 8 chest pain which radiates to the shoulder?
 9 A. It's not unusual for patients with renal
 10 disease to have chest pain.
 11 Q. Does the chest pain, though, radiate to
 12 the shoulder typically?
 13 A. It can radiate anywhere.
 14 Q. Well, the other two causes that you gave
 15 me were both potentially cardiac in nature. One was
 16 left ventricular --
 17 A. Dysfunction.
 18 Q. -- dysfunction, --
 19 A. Yes.
 20 Q. -- and the other was congestive heart
 21 failure.
 22 A. Well, that's -- that's congestive heart
 23 failure. The other is -- Another cause is left
 24 ventricular wall strain.

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1 Q. The great majority -- When we discuss
 2 things legally, you're aware we discuss to a
 3 probability.
 4 A. Yes.
 5 Q. The most likely cause for an elevation,
 6 the significant -- the clear -- the clearly most
 7 likely cause of elevated troponin is myocardial
 8 necrosis; correct?
 9 A. Correct.
 10 Q. And when a troponin comes back that's
 11 abnormal, particularly when more than one comes back
 12 abnormal, is there an attitude that it's cardiac
 13 until proven otherwise?
 14 A. When more than one comes back as abnormal?
 15 Q. As abnormal.
 16 A. We typically try to rule out coronary
 17 artery disease first.
 18 Q. And when you're trying to rule out
 19 coronary artery disease where a patient is
 20 symptomatic with intermittent left-sided chest pain
 21 which radiates to the left arm or shoulder, time is
 22 of the essence; correct?
 23 A. Sometimes.
 24 Q. Well, it's not something that you are

Page 29

1 going to put on the back burner. It's potentially
 2 life-threatening.
 3 A. Some myocardial infarctions need to be
 4 taken care of right away.
 5 Q. Do you agree --
 6 The ER impression from June 18th was that
 7 Jeffrey Lyons had angina. Did you see that in the
 8 records?
 9 A. Yes.
 10 Q. Do you agree with that?
 11 A. Yes.
 12 Q. Do you agree that it was unstable angina?
 13 A. It's easy for me to say that he's had a
 14 myocardial infarction. Not being there to take his
 15 history, it would be much more difficult for me to
 16 say that this was unstable angina.
 17 Q. What is stable angina?
 18 A. It's angina that's occurred over and over
 19 again and is relieved with rest and is more of a
 20 chronic condition. Patients know what can make it
 21 come on. They know what can stop it. It has not
 22 changed in character, frequency over time.
 23 Q. Does he give a history of this being
 24 consistent with a chronic problem?

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1 A. No.
 2 Q. He gives actually that it's been
 3 intermittent chest discomfort for two days, --
 4 A. Correct.
 5 Q. -- which wouldn't fall into the category
 6 of stable angina or chronic angina; correct?
 7 A. That's correct.
 8 Q. He describes this discomfort is heavier
 9 and harder than he's had in the past and radiates to
 10 his left shoulder.
 11 That change in symptoms is also
 12 inconsistent with calling it stable angina; correct?
 13 A. Correct.
 14 Q. He has variations in the degree of pain,
 15 he says, between two of ten to six of ten. That's
 16 not consistent with stable angina, either; is it?
 17 A. No.
 18 Q. What more historical information do you
 19 need to know?
 20 Other than the history and physical that
 21 was taken there, that it's intermittent for two
 22 days, it's different than any chest pain he's had in
 23 the past, that it's heavier and harder, it's now
 24 radiating, and it has fluctuations in degree, what

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1 more information do you need to know clinically to
 2 know that this is not stable angina, if any?
 3 A. The cardiac enzymes.
 4 Q. We know that the troponin came back at
 5 1, 1.8, and 1.9; the CPK-MB, I believe, came back
 6 within -- I think he came back within normal limits.
 7 A. Yes.
 8 Q. Does the CPK-MB being within normal limits
 9 somehow factor into whether it's stable or unstable
 10 angina?
 11 A. They can.
 12 Q. How?
 13 A. Well, you like to see consistency in the
 14 enzyme elevations. That helps firm up your
 15 diagnosis.
 16 Q. Can the body in essence, I guess for a
 17 lack of a better term, metabolize the CPK-MB enzyme
 18 easier than the troponin?
 19 A. I don't believe so. You do get rid of
 20 CPK-MB quicker; but, you know, this guy had -- this
 21 gentleman had symptoms within the last two days.
 22 You would expect to see the CPK-MB elevation; you
 23 would still expect to see it elevated in the blood
 24 if there was enough of it released.

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1 Q. Stable angina is a more reassuring finding
 2 than unstable angina; correct?
 3 A. Yes.
 4 Q. When you're dealing with the heart as a
 5 problem where you're not certain if it's stable or
 6 unstable angina, because of the potential
 7 life-threatening nature of coronary artery disease,
 8 do you treat the worst-case scenario until you've
 9 ruled it out?
 10 A. Typically. You look for the worst-case
 11 scenario, and you may need to treat it.
 12 Q. Looking at this as the worst-case
 13 scenario, that he believed there was angina and the
 14 troponin suggests an acute MI, he actually lists, do
 15 you believe the standard of care required a cardiac
 16 consult be ordered?
 17 MR. DILLON: At what time? Are you still
 18 on the 18th?
 19 MR. KELLEY: I'm on the 18th still.
 20 A. No.
 21 Q. At any point in time was it okay to say,
 22 you're fine; Go home; You never need to see a
 23 cardiologist, or did a consult need to be ordered at
 24 any point?

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1 A. I think that cardiac consult is not an
 2 unreasonable thing to do, but I do feel that his
 3 condition at that time could be adequately handled
 4 by an internist.
 5 Q. This patient had a lot of risk factors for
 6 coronary artery disease; correct?
 7 A. Correct.
 8 Q. Family history has a -- is a very
 9 prognostic risk factor; correct?
 10 A. Correct.
 11 Q. What was his family history?
 12 A. I have to refer to the records.
 13 Q. If I told you that his father had died
 14 from a cardiac disease at 62, would that qualify as
 15 a family history of coronary artery disease?
 16 A. It -- You know, it depends on what the
 17 condition was. But in my own mind, in review of
 18 these records, I remember that he had a positive
 19 family history for coronary disease. I don't
 20 remember the specifics of it.
 21 Q. The family history is something that
 22 has -- and risk factors are something that have to
 23 be weighed by the clinician when making decisions as
 24 to how to treat someone. Correct?

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1 A. Yes.
 2 Q. In addition to family history, did you see
 3 that the physicians found any other risk factors?
 4 A. Yes.
 5 Q. First, the fact that he's a male, is that
 6 in and of itself a risk factor?
 7 A. It is.
 8 Q. He was 42 years old age. Is that in any
 9 way a risk factor?
 10 A. No.
 11 Q. He smoked, I believe, two and a half packs
 12 of cigarettes -- or was a two-pack-per-day smoker.
 13 Is that a risk factor?
 14 A. Of course.
 15 Q. He had central obesity. I believe he was
 16 five-eleven and weighed about 220 or 215. Is
 17 obesity a risk factor?
 18 A. Yes.
 19 Q. He had hypertension. Is that a risk
 20 factor?
 21 A. Yes.
 22 Q. He had hyperlipidemia. Is that a risk
 23 factor?
 24 A. Yes.

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1 Q. Can you give me some cardiac risk factors
 2 that you're aware of that are common that he didn't
 3 have?
 4 A. I don't think he was diabetic.
 5 Q. If he had a fasting glucose of 132 that
 6 had been taken, would that qualify as a diabetic?
 7 A. It all depends if he was truly fasting.
 8 You know, if you were certain that it was accurate,
 9 then I would be worried that he does have glucose
 10 intolerance and should be adequately tested.
 11 Q. If, in fact, beyond possibly having or not
 12 having diabetes, is there any other relevant
 13 coronary artery disease risk factors that you can
 14 think of that our client, Jeff Lyons, didn't have?
 15 A. Didn't have a previous MI that we're aware
 16 of.
 17 Q. Okay.
 18 A. That's it.
 19 Q. Okay. Obviously, after June 18th, with
 20 the troponin level and the suggestion or the
 21 impression by ER, he now believes he has had an MI.
 22 Do you see that within the emergency room
 23 notes?
 24 A. Yes.

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1 Q. So at this point, now we know that he's
 2 had an MI.
 3 With all of the other risk factors that
 4 we can think of absent diabetes, is this still a
 5 patient who is okay to be managed, in your opinion,
 6 by a family practitioner or an internist or does he
 7 need a full cardiac consult?
 8 A. I still think at this point in time, you
 9 could handle him with an internal medicine
 10 evaluation.
 11 Q. What would have to change with Jeff Lyons
 12 for you to say that he needed a cardiac consult?
 13 A. He would need to go to the cath lab.
 14 Q. Okay. How does he get to the cath lab
 15 without a cardiac consult?
 16 A. An internist can call you and say, I
 17 believe -- or the emergency room physician can call
 18 a cardiologist such as myself and say, I have this
 19 patient with these symptoms; I believe he needs to
 20 go to the cath lab. That often gets them there.
 21 Q. Okay. So an internist or a family
 22 practitioner in and of themselves has the ability to
 23 order or request from you to just take him straight
 24 to the cath lab?

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1 A. Yes.
 2 Q. Is that the way it typically happens?
 3 A. It's not atypical.
 4 Q. Okay. And is another way that they
 5 actually defer to you, the cardiologist, for a full
 6 workup before the cath, stress test, nuclear
 7 imaging, things of that sort?
 8 A. Yes. But all those tests can be done,
 9 short of a catheterization, by an internist,
 10 intensivist and often family practitioners.
 11 Q. If a catheterization was performed that
 12 day, June 18 -- we'll say those days, June 18th or
 13 June 19th, do you have an opinion to a probability
 14 what it would have shown?
 15 A. Yes.
 16 Q. And what would it have shown?
 17 A. Coronary artery disease with good left
 18 ventricular function.
 19 Q. And do you have an idea as to -- Do you
 20 believe the distribution would have been single
 21 vessel?
 22 A. It's hard to tell, but judging from the
 23 nuclear scan which occurred subsequently, it looks
 24 like it would have been single-vessel disease.

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1 Q. And with single-vessel disease, would he
2 then be a candidate for stents, angioplasty as one
3 of the methods of revascularization?
4 A. Perhaps.
5 Q. And do you have an opinion as to what the
6 degree of occlusion would have been in his right
7 coronary?
8 A. Uhm, judging from the nuclear scan, it's a
9 greater likelihood than not that the vessel would
10 have been 100 percent occluded.
11 Q. Okay. Do you believe it would have been
12 occluded in the proximal or distal portion? Are you
13 able to tell that from the scan?
14 A. There -- there is some evidence that this
15 would have been a proximal right coronary artery
16 stenosis blockage.
17 Q. If it wasn't amenable to revascularization
18 by way of stents or angioplasty, would this have
19 been the type of lesion that would have been
20 recommended for bypass surgery?
21 A. Again, it all depends on what the
22 catheterization showed, if there was multivessel
23 disease, et cetera.
24 Q. And that's what --

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1 I'm trying to kind of sift through.
2 A. Uh-huh.
3 Q. To a probability, do you believe that it
4 would have been multivessel disease or
5 single-vessel disease?
6 A. The only way that you can decide that is
7 on --
8 Q. Internal?
9 A. -- on the data that you are given, short
10 of doing the heart catheterization.
11 Q. Okay.
12 A. If I had to predict based upon his
13 presentation, his enzyme elevation, and his stress
14 test results, I would predict he had single-vessel
15 disease.
16 Q. And you believe it would be proximal
17 single-vessel disease in the right coronary artery?
18 A. Right. But you don't absolutely know
19 unless you do the heart catheterization.
20 Q. And I'm simply asking to a probability the
21 most likely scenario, --
22 A. Okay.
23 Q. -- and that's what you believe most
24 likely?

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1 A. Yes.
2 Q. And I'm kind -- trying to understand the
3 treatment options.
4 Do you have an opinion to a probability
5 which treatment option he would have required,
6 whether it be angioplasty, stenting, or a bypass of
7 that proximal lesion?
8 A. Assuming that it was single-vessel
9 disease, there is a high likelihood he would not
10 have needed bypass surgery. That's probably the
11 easiest thing for me to say.
12 Then would he have been better off with
13 medical therapy or angioplasty would only be
14 determined by the angiographic appearance. But we
15 know that with single-vessel disease, you -- the
16 outcomes are similar with medical therapy versus
17 balloons and stents or at least balloon angioplasty
18 of single-vessel disease.
19 Q. And by "medical therapy," are we talking
20 about things like beta blockers and calcium channel
21 blockers?
22 A. Mostly beta blockers, aspirin, perhaps
23 cholesterol-lowering agents.
24 Q. And obviously he would have required

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1 medications for his hypertension and cholesterol
2 going forward.
3 A. More than likely.
4 Q. Had he received either --
5 Let's assume that it was single-vessel
6 disease, had he been cathed, it showed what you
7 believe it would have shown to a probability. Do
8 you have an opinion as to what his life expectancy
9 would have been with medical therapy?
10 A. The likelihood, based upon single-vessel
11 disease, is excellent.
12 Q. Okay. And can we quantify what
13 "excellent" means in terms of years? He's 42 years
14 old.
15 A. Yeah. Uhm, the only thing that I could
16 give you is, I know there was one study looking at
17 medical therapy for single-vessel disease, and I
18 think the event rates, the cardiac death rate with
19 medical therapy was, I think, less than one percent
20 within six months, clearly less than three percent.
21 Q. Do you have an opinion as to what his life
22 expectancy would have been had he been diagnosed
23 with single-vessel disease and either received
24 medical therapy or, I guess, angioplasty or

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1 stenting, since you said they're kind of
 2 interchangeable as far as outcome?
 3 A. Well, his -- his prognosis, based upon the
 4 stress test and the fact that he would have
 5 single-vessel disease with good left ventricular
 6 function, is excellent, so I think his 20 years --
 7 he has at least a 50 percent 20 year survival.
 8 Q. Okay. And if, in fact, we'll assume the
 9 worst-case scenario, that he had multivessel
 10 disease, based on the fact that we know he has
 11 preserved left ventricular function, would you have
 12 an opinion of his life expectancy in that scenario?
 13 A. Then it would be less.
 14 Q. Okay.
 15 A. And much of that is determined upon how
 16 well his risk factors are modified and how well he
 17 takes care of himself.
 18 Q. Okay. The plan at discharge by
 19 Dr. Tulebaev was a stress Cardiolute in eight days,
 20 if I understand correctly.
 21 You believe that he didn't even have to
 22 order that test. He could have simply sent the
 23 patient back to the internist, but to request this
 24 was also reasonable.

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1 A. Did I say that?
 2 Q. I thought you said earlier that this is
 3 something that could have been handled by -- he
 4 could have referred the patient back to the
 5 internist.
 6 A. Oh, yeah. I do think an internist could
 7 have handled his situation in the hospital.
 8 Q. Okay. Do you think as an outpatient he
 9 needed to be seen by a cardiologist?
 10 A. I think that's desirable, but it -- you
 11 know, his internist, a competent internist can
 12 easily take care of this problem, also.
 13 Q. A patient who has an MI or suspected
 14 myocardial infarction, a family history, who has
 15 elevated troponins, who has intermittent chest pain
 16 which radiates to the arm, and the other risk
 17 factors that we've discussed such as Mr. Lyons', if
 18 you are going to request a -- request a cardiac
 19 workup, is there a time frame that it should be
 20 accomplished?
 21 A. Sooner is more desirable. In the --
 22 The speed of the consult is dictated by the
 23 patient's stability and the nature of their
 24 complaints.

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1 Q. And by "stability," we're talking about
 2 the stability of their angina?
 3 A. Stability of their presentation. Is their
 4 blood pressure okay? Is their heart rate okay?
 5 Are they -- are they having ongoing chest pain, or
 6 was it resolved with therapy at the time of
 7 presentation?
 8 Q. Was his chest pain resolved with therapy?
 9 A. Well, at the time of discharge, I believe
 10 he said he was not having any angina.
 11 Q. But he had described intermittent angina
 12 up to that point in time for days?
 13 A. On presentation.
 14 Q. So do you believe at discharge he was a
 15 stable patient?
 16 A. Perhaps.
 17 Q. Okay. "Perhaps" --
 18 A. Yeah.
 19 Q. -- makes it at least a question mark,
 20 though.
 21 A. Well, 'cause I wasn't there. So if I am
 22 just going by the assessment of Dr. Tulebaev, then I
 23 would say that he's assessed the patient and he does
 24 not believe he's unstable or having active angina.

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1 Q. Do you know how long it was before
 2 discharge that he last complained of chest pain?
 3 A. No, I don't.
 4 Q. Is that relevant?
 5 A. Sure.
 6 Q. Do you know whether or not --
 7 If he -- if the chest pain came back, is
 8 that relevant, after he was discharged?
 9 A. Depends upon at what time it came back and
 10 how long it was from the presentation of chest pain
 11 to the time he was discharged.
 12 Q. Did you see the nurses' notes?
 13 A. I -- I probably have seen them quite some
 14 time ago. I don't -- I did not review them in the
 15 last few days.
 16 Q. His blood pressure, the nurse's note on
 17 June 18th, is 154 over 92. Is that hypertensive?
 18 A. Yes.
 19 Q. Is that concerning?
 20 A. Yes.
 21 Q. They list the admitting diagnosis as
 22 angina, rule out MI, rule out coronary artery
 23 disease.
 24 Do you see that?

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1 A. I'm unclear of what page you are on.
 2 Q. It's the first page of the nurses' notes.
 3 And to be honest, I went to it just because it's
 4 kind of a decent summary page.
 5 A. Is that before she has her -- these notes?
 6 After the labs?
 7 Q. I don't know in yours. We have tabs.
 8 I'll show you mine.
 9 (Discussion held off the record.)
 10 Q. Do you agree that those were the admitting
 11 diagnoses?
 12 A. Yes.
 13 Q. Going on, when he was discharged, what is
 14 your understanding factually of what the follow-up
 15 plan for him was?
 16 A. The follow-up plan was per Dr. Tulebaev's
 17 note. That's the only plan that I -- I had.
 18 Q. Okay. And let's go through.
 19 A. Okay.
 20 Q. What do Dr. Tulebaev's notes say is going
 21 to occur?
 22 A. I prefer to read that to you so I don't
 23 misquote him or take him out of context.
 24 Q. Absolutely.

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1 A. Let me just get to that. Here it is.
 2 His assessment is, The patient is admitted
 3 with chest pain which I think is unlikely to be
 4 related to coronary artery disease since the patient
 5 is involved in heavy physical exertion on a daily
 6 basis and never experiences chest pain.
 7 The plan is, I am going to discharge the
 8 patient home today and have him follow up with
 9 Dr. Gebhart in one week for a full physical
 10 examination. I think it would be useful also to
 11 follow up with Dr. Auerbach next Tuesday for a
 12 stress Cardiolute test.
 13 Q. Okay. When he sees Dr. Gebhart, are you
 14 familiar with the history that he gave Dr. Gebhart?
 15 A. I did review that.
 16 Q. And what does he describe to Dr. Gebhart?
 17 A. You know, I hate to take these things out
 18 of context.
 19 Q. I don't want you to take any -- That's why
 20 I said earlier take as much time as you need --
 21 A. Okay.
 22 Q. -- to look at notes.
 23 I can give you mine from June 27th.
 24 A. Okay. That would be great.

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1 Q. (Handed documents to witness.)
 2 A. I remember this.
 3 He was seen in the emergency room the
 4 other day because of an episode of chest pain. He
 5 has a pretty good story for angina, but his stress
 6 test was negative. We don't have the Cardiolute
 7 part yet. If it is normal, and it will be back
 8 tomorrow, then we'll have to decide that he does not
 9 have coronary artery disease. He abbreviated it
 10 C-A-D.
 11 He does have a lot of epigastric distress,
 12 and this may be giving him esophagitis or reflux
 13 causing some chest pain.
 14 Q. So according to a couple things that
 15 Dr. Gebhart --
 16 We know Dr. Gebhart was aware he was in
 17 the hospital. Correct?
 18 A. Yes.
 19 Q. We know Dr. Gebhart was aware of the
 20 stress test results.
 21 A. Part of them.
 22 Q. And it appears that he relayed to
 23 Dr. Gebhart that he was still having some chest
 24 pain?

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1 A. Yeah, epigastric pain.
 2 Q. Well, 'cause we don't want to take
 3 anything out of context, --
 4 A. Uh-huh.
 5 Q. -- he says, He does have some epigastric
 6 distress, and this may be giving him esophagitis or
 7 reflux causing some chest pain.
 8 A. Okay.
 9 Q. You read that, correct?
 10 A. He -- You know, his note says that he has
 11 epigastric distress. I don't know if he was
 12 referring to the chest pain as being remote or if
 13 that's another complaint of chest pain to him.
 14 Q. Cardiac and epigastric pain can sometimes
 15 be difficult to distinguish; correct?
 16 A. Absolutely.
 17 Q. And in light of the troponins and things
 18 like that, his history in the emergency room, this
 19 would be relevant information that would make you
 20 question the stability of this patient. Correct?
 21 A. Yes.
 22 Q. It would call into question whether or not
 23 he's having an ongoing problem with coronary artery
 24 disease; correct?

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1 A. Yes. But at the time that Dr. Gebhart saw
 2 him, he had a normal stress EKG, so he's starting to
 3 be led down the path that this isn't his heart.
 4 Q. He had the report of a normal stress EKG.
 5 A. Yes.
 6 Q. Have you been provided Dr. Garrett's
 7 deposition?
 8 A. Uhm, I think so, but I -- I can't seem to
 9 locate it.
 10 Q. Have you read it?
 11 A. No, I have not read it.
 12 Q. So you were either provided it and
 13 misplaced it, a filing issue, --
 14 A. Exactly.
 15 Q. -- or it hasn't gotten here for some
 16 reason or another?
 17 A. Yes.
 18 Q. But you have not read it as you sit here?
 19 A. Right.
 20 Q. Have you reviewed the stress test?
 21 A. No.
 22 Q. You have never reviewed the stress test to
 23 see whether or not if you agree if it was normal?
 24 A. The EKGs?

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1 Q. The stress test that was performed by
 2 Dr. Beaver.
 3 A. No. I read his interpretation of the
 4 stress test.
 5 Q. Did you read the actual stress test
 6 itself?
 7 A. Did I see all of the EKGs associated with
 8 it?
 9 Q. Yes.
 10 A. I don't believe I have.
 11 Q. Can I see in your chart what portions of
 12 it you have?
 13 A. Okay.
 14 Q. You read stress tests here in your job;
 15 correct?
 16 A. I know how to read them. I don't do them
 17 on a daily basis.
 18 Q. Describe for me briefly, then, your
 19 practice. Is it mainly interventional cardiology?
 20 A. Yes.
 21 Q. What percentage would you say is
 22 noninterventional, if any?
 23 A. Probably about 30 percent.
 24 Q. And how often, if ever, do you oversee

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1 stress tests?
 2 A. Rarely.
 3 Q. Do you ever read them as part of your
 4 assessment of a patient before making the
 5 determination as to what interventional procedure to
 6 perform?
 7 A. Yes.
 8 Q. So you are qualified to read them.
 9 A. Yes.
 10 Q. Okay.
 11 A. I'll be happy to go over the stress test
 12 if you have it for me.
 13 Q. Do you -- Were you not provided it?
 14 A. You know, I don't see it in here. No. It
 15 could be in another place, but I don't see it.
 16 Q. Did you receive the medical records of
 17 Dr. Auerbach?
 18 A. I received his letter that he wrote to
 19 Dr. Tulebaev.
 20 Q. You mean to Dr. --
 21 How about the one to Dr. Gebhart?
 22 A. To Dr. Gebhart. I apologize. Yes.
 23 Q. Does he describe it as a normal stress
 24 test or an abnormal stress test in that letter?

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1 A. He described the Cardiolite as being
 2 abnormal.
 3 Q. The exact phrase is, Mr. Lyons has
 4 unstable angina postinfarction. He had an abnormal
 5 stress test which I think underestimates the
 6 severity of the problem.
 7 A. Right.
 8 Q. Do you believe that's only referring to
 9 the Cardiolite portion?
 10 A. Yes.
 11 Q. Is that --
 12 A. Dr. Beaver's interpretation is his resting
 13 and exercise electrocardiograms remain normal during
 14 the stress test.
 15 Q. I understand that's what Dr. Beaver
 16 reported.
 17 A. Okay. Would you like me to review the
 18 EKGs of the stress test? I would be happy to do
 19 that.
 20 Q. I'm going to pull them out for you.
 21 A. Okay.
 22 Q. I don't know if I have them with me, so we
 23 are not going to do it. If you don't have it and I
 24 don't have it, I don't think we're going to have a

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1 way to do it.
 2 A. I've never seen them.
 3 Q. You have never seen them?
 4 A. Now, either I have not received them or I
 5 have misplaced them, 'cause apparently I have done
 6 that, but I don't -- I have never seen them.
 7 Q. You don't intend to walk in and render any
 8 opinions as to how they were read since you haven't
 9 read them or been provided them to date?
 10 A. Unless you -- somebody asks me to
 11 interpret this, the actual EKG portion, but I have
 12 no reason to doubt Dr. Beaver's interpretation.
 13 Q. The stress test was --
 14 When a stress test is performed, are you
 15 looking to see whether or not the patient's able to
 16 obtain certain levels of cardiac exertion?
 17 A. Yes.
 18 Q. Was Mr. Lyons able to exert, reach
 19 85 percent of his maximum heart rate?
 20 A. I have to go back and look at Dr. Beaver's
 21 notes. I know that his exercise duration was not
 22 very long, but I don't recall what his heart rate
 23 was and his blood pressure at peak exertion.
 24 Q. He achieved -- His target was --

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1 I will tell you from my review.
 2 His max was 178 that they wanted. His
 3 target was 151. He achieved 136. He exercised for
 4 5 minutes and 16 seconds before he had to stop.
 5 If he is unable to reach the target, is
 6 that a normal -- and if he's only able to exercise
 7 for 5 minutes and 16 seconds and then has to stop,
 8 is that a normal stress test --
 9 A. Uhm --
 10 Q. -- or is it at least indeterminate -- or
 11 an undeterminable stress test?
 12 MR. SEWARDS: Objection.
 13 A. Yeah. I object to the form of the
 14 question.
 15 Q. You're going to start objecting to me,
 16 too?
 17 A. Well, I -- You know, "normal" is an
 18 interpretation as to what the electrocardiogram
 19 shows and what the Cardiolite shows the -- so I
 20 don't think "normal" is correct terminology there.
 21 I think that it's --
 22 Did he achieve his target heart rate, did
 23 he achieve an ideal heart rate? He did not. And
 24 there are many factors for that, but he did not stop

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1 the stress test portion because of chest pain. So
 2 he went as long as he could from a physical
 3 standpoint without precipitation of the symptoms
 4 that brought him to the emergency department. He
 5 did not have an ideal stress test by traditional
 6 measures.
 7 Q. Well, the words -- The thing that's
 8 strange is you objected -- you objected to the word
 9 "normal," Mr. Sowards objected to the word
 10 "indeterminate," I think --
 11 MR. SEWARDS: I objected to the whole
 12 question.
 13 Q. -- and they are words that I got from the
 14 stress test report.
 15 A. Okay.
 16 Q. And I'll show it to you.
 17 A. All right.
 18 Q. I don't make these things up.
 19 A. Okay.
 20 Q. I would be a much better lawyer if I could
 21 make things up.
 22 A. Okay.
 23 Q. It says, The clinical impression was
 24 submaximal negative.

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1 A. Correct.
 2 Q. What does that mean?
 3 A. He did not exercise to the target heart
 4 rate; or sometimes we use a double product, so he
 5 did not get to his predicted heart rate. He was
 6 submaximal.
 7 Q. Okay. And the level beneath that would be
 8 indeterminate, at least according to this sheet?
 9 A. Yes. That's a clinical impression, not a
 10 stress test.
 11 Q. And then this is where you objected to me.
 12 A. Uh-huh.
 13 Q. It says, This electrocardiogram is --
 14 And it doesn't say "this Cardiolite," does
 15 it?
 16 A. No. You said the stress test. This is
 17 the EKG. It says normal. The stress EKG is normal.
 18 That's a correct term.
 19 Q. Okay. You believe that that refers, then,
 20 to only the EKG portion, absent and apart from his
 21 inability to exercise --
 22 A. Correct.
 23 Q. -- to his maximal?
 24 A. That interpretation is solely of the

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1 electrocardiogram. It has nothing to do with his
 2 duration of exercise or the interpretation of his
 3 exercise performance or to the Cardiolite
 4 interpretation.
 5 Q. Have you seen his deposition as to what he
 6 described that this meant?
 7 MR. SEWARDS: What -- Who is "his"?
 8 MR. KELLEY: Dr. Beavers.
 9 MR. SEWARDS: Thank you.
 10 A. I did read his deposition.
 11 Q. That's your understanding.
 12 What if we assume hypothetically that --
 13 'cause he says things on that box like, Cardiolite
 14 images pending, things of that sort -- that the
 15 stress electrocardiogram being normal is the
 16 conclusion, for lack of a better term.
 17 A. The stress electrocardiogram is normal.
 18 Q. From the exercise portion and the EKG
 19 portion?
 20 A. Yes.
 21 Q. Does that make sense where I'm at right
 22 now?
 23 A. Yes.
 24 Q. Okay. If we assume that, was it, in fact,

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1 normal, since he was unable to reach his target
 2 heart rate, he only reached 76 percent, and he was
 3 only able to exercise for 5 minutes and 16 seconds?
 4 A. His stress electrocardiogram was normal.
 5 His exercise duration was submaximal.
 6 Q. Why was his exercise portion submaximal?
 7 Was it secondary to his cardiac disease, most
 8 likely?
 9 A. I don't believe that.
 10 Q. Okay. Do you have any opinion as to why
 11 his exercise was submaximal?
 12 A. Well, his exercise duration could be
 13 submaximal due to his coronary disease, but it can
 14 be -- it could be explained that way if the patient
 15 stopped because of cardiac symptoms.
 16 Dr. Beaver stated that he -- he denied
 17 precipitation of clinical symptoms with the stress
 18 test, so my impression or my assumption would be
 19 that the stress test was stopped for other reasons.
 20 And some of those reasons that people stop or don't
 21 go to target heart rates are they are out of shape
 22 or they have orthopedic problems to prevent them
 23 from exercising in a faster rate on the treadmill.
 24 So the answer to your question is, I do

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1 not know what made him stop his -- his stress EKG
 2 early, --
 3 Q. Okay.
 4 A. -- but it's doubtful that it was
 5 cardiac-related symptoms, because he specifically
 6 stated he denied precipitation of clinical symptoms.
 7 Q. First, what's your definition of a
 8 consultation?
 9 A. Uhm, a consultation is when I am asked as
 10 a consultant to be involved in the care with another
 11 physician from a cardiac standpoint and assess their
 12 cardiovascular status and make recommendations in
 13 their care.
 14 Q. Okay. Reading the chart -- And do you
 15 have his -- You have right in front of you the
 16 second page of it.
 17 Does it actually say on there "Report of
 18 consultation"?
 19 A. Yes.
 20 Q. Do you interpret this to be a cardiac
 21 consultation based on your review of the records?
 22 MR. SEWARDS: Object.
 23 A. I don't know.
 24 Q. What -- If it says it's a cardiac

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1 consultation and a report of a consultation, does it
 2 look like a consultation?
 3 MR. SEWARDS: Object. It doesn't say
 4 "cardiac consultation."
 5 Q. I'm sorry. It says "Report of
 6 consultation."
 7 A. He has a physical examination and history
 8 of present illness. He has many features that are
 9 consistent with a consultation.
 10 Q. And it also actually says --
 11 Under "Chief Complaint," it doesn't say we
 12 were asked to perform a single stress test. It says
 13 we were asked to evaluate this patient regarding
 14 chest discomfort. Correct?
 15 A. That's correct.
 16 Q. Which would be consistent with a
 17 consultation; correct?
 18 A. Perhaps that --
 19 Yes, that may be the case.
 20 This isn't the form of -- that my
 21 consultations take.
 22 Q. At the end of his report of consultation,
 23 it actually says, Should his nuclear --
 24 It's the nuclear imagining, the

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1 scintigraphy.
 2 -- be abnormal, we would recommend
 3 diagnostic coronary angiography.
 4 Do you agree with that recommendation?
 5 A. Maybe.
 6 Q. Okay. You say "maybe."
 7 What are the other options or why do you
 8 hesitate?
 9 A. Because medical therapy can be a
 10 reasonable option, also.
 11 Q. Okay. Would you start medical therapy
 12 without visualizing the coronary arteries if there
 13 was an abnormal Cardiolite?
 14 A. You may. Depends on the degree of
 15 abnormality of the nuclear scan and it depends on
 16 the patient's clinical presentation.
 17 Q. This patient's clinical presentation, we
 18 know at this point in time there's no reference in
 19 this history to the prior MI.
 20 When you perform a consultation, do you
 21 get the records from the prior hospitalization?
 22 A. As often as possible.
 23 Q. And you can see this is a report of
 24 consultation on Fayette County Memorial Hospital

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1 letterhead. That's the same institution he was at
 2 before; correct?
 3 A. Yes.
 4 Q. And laboratory values appear to be
 5 computer generated; correct?
 6 A. Yes.
 7 Q. The fact that he was just hospitalized
 8 with a suspected MI is relevant; correct?
 9 A. Yes.
 10 Q. Obviously, they know he's there for some
 11 reason. Someone asked him to go for some form of
 12 cardiac workup. Correct?
 13 A. Correct.
 14 Q. In what situations do you not get the
 15 prior medical records?
 16 A. When they're not available.
 17 Q. Okay. You always try, though.
 18 A. Yes.
 19 Q. Okay. And the reason you try is because
 20 it allows you to provide the best care for the
 21 patient.
 22 A. Yes.
 23 Q. Is the failure to even look for the past
 24 records, in your opinion, beneath the standard of

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1 care?
 2 MR. SEWARDS: Object to all the facts left
 3 out of that question, but go ahead.
 4 MR. KELLEY: Facts left out of a question
 5 is not a formal objection.
 6 (Discussion held off the record.)
 7 A. Could you read that back to me, please?
 8 Q. I am asking whether or not it's beneath
 9 the standard of care if a physician does not look --
 10 even try to get the prior records?
 11 A. You know, it all depends upon what the
 12 clinical situation is. Sometimes -- sometimes past
 13 medical records are irrelevant, so they wouldn't
 14 matter at all.
 15 Q. In this case, were the past medical
 16 records relevant?
 17 A. They could be relevant. They became more
 18 relevant after the stress test was done.
 19 Q. When the Cardiolite stress test comes
 20 back, we also know that he is also having -- as
 21 described by Dr. Gebhart, is having some ongoing
 22 epigastric pain and/or chest pain; correct?
 23 A. Correct.
 24 Q. The plan is to do a cardiac

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1 catheterization. You agree that that was a
 2 reasonable plan by them?
 3 A. Yes.
 4 Q. Do you believe that at this point he had
 5 unstable angina still?
 6 MR. DILLON: Talking about the 26th?
 7 MR. KELLEY: Yes.
 8 A. He -- he -- The -- Dr. Beaver says he
 9 currently denies any symptoms of palpitations,
 10 tachycardia. And in -- I -- It's hard for me to
 11 make that call on unstable angina, 'cause it doesn't
 12 really say in there whether he has chest pain at the
 13 time of presentation again.
 14 Q. Okay.
 15 A. Now, he did have pain at the time of his
 16 emergency room visit. He obviously had some
 17 epigastric pain leading up to his visit with
 18 Dr. Gebhart, but --
 19 Q. Well, it says under "History of Present
 20 Illness" --
 21 A. Yes.
 22 Q. Remember, before it was two days --
 23 A. Yes.
 24 Q. -- history, going into June 18th.

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1 We're now about nine days later or eight
2 days later. We're at June 26th.
3 He says for two weeks he's been
4 experiencing intermittent midsternal chest
5 tightness; and when laying down, there is radiation
6 into the left arm associated with dyspnea.
7 First, what is dyspnea?
8 A. Shortness of breath.
9 Q. Shortness of breath, chest pain, or
10 midsternal chest tightness radiating to the left
11 arm, that's consistent with angina; correct?
12 A. It could be.
13 Angina related to coronary disease?
14 Q. Yes.
15 A. Yes.
16 Q. And that's -- I understand that this note
17 does show that he has knowledge of what appears to
18 be ongoing intermittent chest pain.
19 A. He does have intermittent chest pain,
20 according to this note.
21 Q. And this intermittent chest pain is also
22 associated with radiation to the left arm and
23 shortness of breath.
24 A. Yes.

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1 Q. Shortness of breath is another symptom
2 that's potentially consistent with a cardiac
3 problem; correct?
4 A. Potentially, yes.
5 Q. The radiation into the left arm is
6 consistent with a cardiac cause for the chest pain;
7 correct?
8 A. It can be.
9 Q. And I'm not saying it's -- You know, I'm
10 not trying to use a big word -- pathopneumonic for
11 it, but that is consistent with that, as well, is
12 what I'm saying.
13 All of these things are consistent with a
14 cardiac cause.
15 A. Yes.
16 Q. He describes severe exertional dyspnea or
17 shortness of breath which he feels is secondary to
18 smoking, but that's also consistent with a cardiac
19 cause. Correct?
20 A. It can be.
21 Q. And it says he has a strong family history
22 of atherosclerotic heart disease, as well. Correct?
23 A. Correct.
24 Q. So although, as you pointed out, he denied

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1 palpitations, tachycardia or syncope, he does
2 describe shortness of breath with exertion,
3 shortness of breath when laying down, intermittent
4 chest tightness which can last from minutes to hours
5 with spontaneous resolution. Correct?
6 A. Yes.
7 Q. So there is a clinical history there which
8 is consistent with unstable angina.
9 A. Maybe. I'm not -- I'm not convinced of
10 that.
11 Q. You're not saying I'm wrong, but it's one
12 of the possibilities?
13 A. It -- it is a possibility.
14 Q. Is there anything more likely than angina
15 as to the cause of his symptoms as of June 26th,
16 2001?
17 A. Is there anything more likely than
18 coronary artery disease?
19 Q. Artery disease.
20 A. That would be the -- the leading
21 suspicion.
22 Q. Okay.
23 A. He -- These are not perfectly classical
24 symptoms, either. If they were perfectly classical,

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1 Dr. Beaver probably would not have done the stress
2 test, so he was not convincing enough for a
3 cardiologist to disregard his symptoms and go
4 straight to catheterization.
5 So my impression is, if -- if I felt that
6 these symptoms were clearly related to unstable
7 angina, as you call it, he wouldn't have done the
8 stress test. I'm sure he would have done the heart
9 catheterization right there.
10 Q. And I'm just saying that the symptoms that
11 we have described --
12 I am not asking what he felt. I'm saying
13 the symptoms that he put in his own note.
14 -- are consistent with unstable angina,
15 among other things.
16 A. They may be consistent with unstable
17 angina.
18 Q. Which is secondary to coronary artery
19 disease?
20 A. Yes.
21 Q. He also has knowledge in here, in addition
22 to that clinical history, he documents the strong
23 family history, hypertension, obesity, hyper- -- I
24 said hypertension. We know he has the history of --

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1 he has every risk factor for coronary artery disease
 2 with the exception of possibly diabetes.
 3 A. Correct.
 4 Q. And he knew all of that at the time,
 5 'cause he actually describes the multiple risk
 6 factors. Correct?
 7 A. Yes.
 8 Q. Now, when he makes the recommendation for
 9 coronary angiography if the nuclear scan is
 10 abnormal, the nuclear scan does come back as
 11 abnormal. Correct?
 12 A. Yes.
 13 Q. Is there a time frame in which that has to
 14 be accomplished to comply with the standard of care?
 15 A. No.
 16 Q. When we say that it's abnormal, I know
 17 that there are -- I've seen five categories for
 18 reporting a nuclear scan. I have seen I think it's
 19 strongly abnormal -- it's abnormal, slightly
 20 abnormal, equivocal, slightly positive, and
 21 positive, or you know what I'm saying.
 22 How would you, on that five-scale prong by
 23 the American Heart Association, categorize his test,
 24 or are you unable to since you haven't seen the

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1 images?
 2 A. I have not seen the images. And in my own
 3 style of practice, I use my own interpretation of
 4 the images to -- or the -- the interpretation of the
 5 images to categorize the patient, and that is in
 6 conjunction with the patient's clinical syndrome.
 7 Q. So you don't review the scans in and of
 8 themselves. You review them in conjunction with the
 9 clinical picture.
 10 A. Yes.
 11 Q. And you believe that the clinical picture
 12 here in some way --
 13 Does it make the scan more abnormal, less
 14 abnormal?
 15 A. I -- I don't think his clinical symptoms
 16 make the scan any more or less abnormal. The scans
 17 are what they are. The clinical decision is based
 18 upon what the scans show and the patient's clinical
 19 syndrome.
 20 Q. And do you believe it was reasonable at
 21 that point to not schedule a catheterization in
 22 light of the abnormal nuclear scan, the clinical
 23 presentation this patient had in the next 24 hours?
 24 A. I -- I think it's -- it's -- it's not

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1 unreasonable to not have done the heart
 2 catheterization within 24 hours of the scan being
 3 done.
 4 Q. Do you know Dr. Kolibash?
 5 A. Yes.
 6 Q. How do you know him?
 7 A. He's a cardiologist at Ohio State
 8 University.
 9 Q. Do you respect him?
 10 A. Yes.
 11 Q. Is he somebody who you ever refer patients
 12 to?
 13 A. Ah, no.
 14 Q. You have been provided a deposition, but I
 15 know you haven't had a chance to read it yet;
 16 correct?
 17 A. That's correct.
 18 Q. Do you agree that if you have a patient
 19 referred to you for an outpatient consultation
 20 following a non-ST or a non-Q myocardial infarction,
 21 patient continues to have chest pain which you
 22 believe may be cardiac related, an EKG had been
 23 performed which was normal, would you still want to
 24 get that patient into the hospital within 24 to 48

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1 hours for a heart catheterization?
 2 A. Maybe.
 3 Q. Maybe.
 4 What are the factors that you would look
 5 at to say "yes" or "no"?
 6 A. I would want to talk with the patient and
 7 examine them.
 8 Q. Dr. Kolibash, on page 45, line 17, so
 9 everybody knows where I am, responded, "... I -- I
 10 would admit them that day or the next day, so I
 11 would do it within 24 hours. More likely that day."
 12 Do you agree that that's a reasonable
 13 position?
 14 MR. SEWARDS: What page did you say?
 15 MR. KELLEY: Page 45, line 17.
 16 A. And he would admit them based upon the
 17 stress test result only or --
 18 Q. No. He said a normal EKG; based on the
 19 fact that you had a known MI and continued chest
 20 pain.
 21 A. If he was having active chest pain at that
 22 time. I think that's the key, is what is the
 23 patient's symptomatology? That's why you would want
 24 to know how the patient is feeling.

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1 Q. Well, you see how he's feeling according
2 to Dr. Beaver's notes.
3 A. Yes.
4 Q. He's having intermittent chest pain, he
5 has exertional dyspnea, he has chest tightness
6 that's lasted over -- had been intermittent over two
7 weeks that could last minutes to hours, it radiates
8 to his arm. That is ongoing chest pain; correct?
9 A. He must not have had it at the time that
10 he put him on the treadmill or else he wouldn't have
11 put him on there. So he was having no symptoms at
12 the time most likely. He did not have precipitation
13 of his symptoms with the stress test, so it's very
14 reasonable to reassess the patient. That's what I
15 would have done. I would have -- I would have
16 reassessed the patient.
17 Q. He actually describes on page 37 of his
18 deposition that if there's further chest pains,
19 there's guidelines that the patient should be taken
20 straight to the cath lab after a non-Q-wave MI.
21 A. There are -- there are guidelines. You
22 know, those guidelines were established after 2001.
23 And the question that you had asked him was, the
24 patient is having ongoing chest pain. I think

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1 that's the key.
2 Q. Well, if a patient is having --
3 MR. DILLON: Just for the record, he's
4 referring to the prior question.
5 A. Ongoing chest pain is different than I had
6 chest pain two days ago before I came in for the
7 stress test.
8 Q. His chest pain is intermittent by his own
9 history; correct?
10 A. Yes.
11 Q. Which means it comes and goes.
12 A. I -- I agree with your definition of
13 intermittent.
14 Q. It's been coming and going consistently
15 for two weeks by his history; correct?
16 A. I agree.
17 Q. So obviously you can pick moments of time
18 within that two weeks to say he's symptomatic or
19 nonsymptomatic.
20 A. Correct.
21 Q. You treat the fact that he's symptomatic,
22 though, at points; correct? You react to the worst
23 possible scenario, not best possible scenario when
24 it's potentially cardiac.

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1 A. Again, it depends upon the information you
2 have available to you.
3 Q. I'm not trying to make up information.
4 A. Yeah.
5 Q. I'm trying to go on the information that
6 you see in Dr. Beaver's own note.
7 A. Yes.
8 Q. That's a sign of ongoing problems with
9 chest pain after that first hospitalization, isn't
10 it?
11 A. I agree with that.
12 Q. One of the things you said to me earlier
13 was that at discharge, it was important to you that
14 he did not have chest pain.
15 A. Correct.
16 Q. We now know eight days later he's had the
17 chest pain back.
18 A. Okay.
19 Q. As reassuring to you as the fact that the
20 chest pain was gone, is the fact that the chest pain
21 keeps coming back of concern to you as a
22 cardiologist?
23 A. Yes, it is of concern.
24 Q. And is it a concern because it raises your

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1 index of suspicion for a cardiac problem?
2 A. Yes.
3 Q. Does it make timing of the therapy or
4 intervention more relevant?
5 A. Yes.
6 Q. Knowing that he's had two weeks of
7 additional pain after that emergency room
8 presentation, should he be cathed a week later or 24
9 to 48 hours later to meet the standard of care?
10 A. In 2001?
11 Q. Yes.
12 A. No one knows.
13 Q. Has medicine changed in the last three
14 years that significantly as it pertains to
15 diagnostic catheterizations?
16 A. The guidelines are clearer.
17 Q. And the guidelines, as we sit here today,
18 are cath within 24 to 48 hours.
19 A. Not necessarily.
20 Q. Okay. What guidelines are we talking
21 about?
22 A. ACC guidelines for treatment of unstable
23 angina, --
24 Q. Okay.

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1 A. -- acute coronary syndromes.
 2 Q. Are you telling me that before 2001, there
 3 was dispute as to whether or not there should be a
 4 catheterization?
 5 A. No. I'm saying there's variability in
 6 methodology of when the patient goes to the cath
 7 lab.
 8 Q. Okay. And what is the outside range when
 9 you have a patient with an acute coronary syndrome
 10 or unstable angina that you wait to take them to the
 11 cath lab?
 12 A. Well, you can elect to treat these
 13 patients with medical therapy alone.
 14 Q. What medical therapy was instituted to
 15 treat Jeffrey Lyons on June 26th?
 16 A. I think he was on an aspirin daily.
 17 Q. Was he on any beta blockers?
 18 A. Not that I'm aware of.
 19 Q. Should he have been?
 20 A. I don't think that that's unreasonable
 21 therapy.
 22 Q. If he was your patient, would you have put
 23 him on a beta blocker that day while you waited for
 24 the cath?

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1 A. There's a high degree of probability I
 2 would have recommended a beta blocker.
 3 Q. And that's because -- What benefit do you
 4 believe a beta blocker would provide to a patient
 5 such as him?
 6 A. Well, if you're convinced that he has
 7 coronary artery disease, I try to treat as many of
 8 those patients as possible with beta blockers.
 9 Q. And you wouldn't wait for --
 10 You would start the medical therapy
 11 immediately?
 12 A. Not necessarily.
 13 Q. When would you start after June 26th the
 14 medical therapy for him?
 15 A. Probably after I had seen the stress
 16 Cardiolite study.
 17 Q. Okay. But before the cath?
 18 A. Yes.
 19 Q. Would you do one or the other? Am I kind
 20 of hearing you right, that you would either try him
 21 for a period of time on medical therapy or cath him?
 22 A. No. I'm just saying those are options.
 23 You never asked me what I would do.
 24 I would -- The -- It is very legitimate to

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1 treat this gentleman with medical therapy to see if
 2 he has recurrent symptoms or to do a heart
 3 catheterization once you know the Cardiolite
 4 results.
 5 Q. Okay.
 6 A. Those are both very reasonable.
 7 Q. Okay. And if you were going to choose the
 8 medical route, that first reasonable route, would
 9 you start with -- in addition to beta blockers and
 10 aspirin, is there anything else you would put him
 11 on?
 12 A. Yes.
 13 Q. What else?
 14 A. Cholesterol-lowering agents.
 15 Q. Okay. Would you use a statin, --
 16 A. Yes.
 17 Q. -- a lipid-lowering agent?
 18 A. Most likely a statin.
 19 Q. Okay. Anything else?
 20 A. Perhaps nitroglycerin.
 21 Q. Okay.
 22 A. That would be about it.
 23 Q. Would the nitroglycerin be on an as-need
 24 basis?

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1 A. Yes.
 2 Q. Okay. Would you start those medical
 3 therapies immediately after receiving the Cardiolite
 4 results?
 5 A. Refresh my opinion about who am I. Which
 6 doctor am I?
 7 Q. You are right now the cardiologist on
 8 June 26th, 27th, who has seen the patient.
 9 A. Okay.
 10 Q. You are waiting for the Cardiolite result,
 11 which we know comes back on June 26th, as well, from
 12 Dr. David Reece (phonetic). He actually dictates it
 13 on the 27th, so that information is back in the
 14 chart as of the 27th.
 15 A. I -- As soon as I became --
 16 If this was a formal consultation for me
 17 to see the patient, as soon as I became aware of the
 18 Cardiolite results, I would probably instruct my
 19 nurse to call the patient, to put that patient on
 20 beta blockers and see me in the office at their
 21 earliest convenience and to seek care in the
 22 emergency department if their symptoms became
 23 significantly worse.
 24 Q. Okay. Why would you undertake that plan

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1 of therapy?
 2 A. Because now it is absolutely clear that
 3 this man has known coronary disease.
 4 Q. Okay. So as of June 27th when the
 5 Cardiolite result comes back, it's clear he has
 6 coronary disease.
 7 A. Yes.
 8 Q. And it's clear it needs to be intervened
 9 upon by either medical therapy or some other
 10 intervention.
 11 A. Yes.
 12 Q. Okay. If you're not going to choose to
 13 place him on medical therapy such as what you have
 14 described, does a catheterization quickly become
 15 more relevant?
 16 A. Uhm, I don't think that's a fair question.
 17 Q. Okay.
 18 A. He should be on medical therapy regardless
 19 of your decision to cath him.
 20 Q. If you're not going to be on medical
 21 therapy -- Well, no matter what, he should be.
 22 Putting him on medical therapy, then, as
 23 you believe he should be, when should he be cathed,
 24 if ever?

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1 A. That all depends upon his clinical
 2 symptoms. If he has ongoing chest pain despite
 3 medical therapy, cardiac catheterization should be
 4 the next option if you've chosen to delay
 5 catheterization.
 6 Q. Now, from June 27th to July 3rd, do you
 7 see any documentation that he was placed on beta
 8 blockers?
 9 A. When Dr. Auerbach saw him, he was placed
 10 on beta blockers.
 11 Q. Which was on July 3rd?
 12 A. Yes.
 13 Q. Had he been placed on beta blockers as
 14 early as June 27th, would that have altered the
 15 outcome to a probability?
 16 A. It's doubtful.
 17 Q. Doubtful?
 18 A. Yes.
 19 Q. Is it possible?
 20 MR. SEWARDS: Objection.
 21 A. Perhaps.
 22 Q. Are you able to quantify the percent of
 23 likelihood that it may have altered the outcome?
 24 MR. SEWARDS: Objection.

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1 A. It would be very small.
 2 Q. By "very small," less than 10 percent,
 3 more than 10 percent?
 4 A. Much less than 10 percent.
 5 Q. If you put him on calcium -- or beta
 6 blockers with nitroglycerin and with statins, would
 7 those medications in combination have altered the
 8 outcome to a probability?
 9 A. Probably not more than beta blockers
 10 alone.
 11 Q. Okay. At the time that he is seen on
 12 July 3rd --
 13 And let me go back to one housekeeping
 14 question for June 26th.
 15 You believe that Dr. Beaver met the
 16 standard of care?
 17 A. Yes.
 18 Q. You do still agree, though, that had a
 19 catheterization been performed on or about
 20 June 27th, it would have revealed the same thing,
 21 single-vessel proximal disease in the right coronary
 22 artery?
 23 A. Well, my initial evaluation was based upon
 24 the Cardiolite, so that hasn't changed at all.

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1 Q. Okay. I'm just saying that had for some
 2 reason the course for this patient been altered,
 3 they cathed him on the 27th, he still would have
 4 been amenable to treatment with that same excellent
 5 prognosis you testified to earlier?
 6 A. That's because all of the information that
 7 I used to make the assessment initially is the same.
 8 Q. Okay. But I just want to make sure I have
 9 it clean in the record.
 10 It's your opinion, based on a reasonable
 11 degree of medical probability, that had he been
 12 catheterized on June 27th or the 28th, we'll even
 13 give another day, that it would have revealed a
 14 proximal lesion of the right coronary artery; and
 15 with either medical therapy or revascularization, he
 16 would have had an excellent prognosis because of his
 17 good left ventricular function. True?
 18 A. That would be the most likely scenario
 19 based upon his stress test results.
 20 Again, I don't have privy to his
 21 angiogram.
 22 Q. Okay. June -- July 3rd, that's the visit
 23 with Dr. Auerbach?
 24 A. Yes.

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1 Q. At this point you've seen the letter from
 2 Dr. Auerbach to Dr. Gebhart.
 3 A. Yes.
 4 Q. And in Dr. Auerbach's very first
 5 paragraph, second sentence, he says that, Barney saw
 6 him, "him" being my client, Jeff Lyons, last week
 7 for evaluation of chest discomfort.
 8 A. Yes.
 9 Q. Do you see that?
 10 A. Yes.
 11 Q. Does that appear to be consistent with the
 12 chief complaint that was on the report of
 13 consultation?
 14 A. Yes.
 15 Q. If you were asked to do an evaluation of
 16 chest discomfort, to you, would that be a complete
 17 workup of the patient's chest discomfort?
 18 A. From a cardiac standpoint, yes.
 19 Q. The next thing he specifically says, that
 20 his nuclear scan showed evidence of a previous
 21 infarction.
 22 You agree with that; correct?
 23 A. Yes.
 24 Q. He describes here, as of July

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1 3rd, continued intermittent episodes of chest
 2 discomfort associated with physical activity.
 3 You saw that?
 4 A. Yes.
 5 Q. That's exertional; correct?
 6 A. That's correct.
 7 Q. And he's also had brief episodes at rest;
 8 correct?
 9 A. Yes.
 10 Q. He concludes, as of July 3rd, Mr. Lyons
 11 has unstable angina postinfarction.
 12 Do you agree with him?
 13 A. I think --
 14 I would have used different terminology.
 15 Q. Okay. What terminology would you have
 16 used?
 17 A. I would have used he has angina
 18 postinfarction.
 19 Q. Do you disagree that it was unstable
 20 angina postinfarction?
 21 A. Ah, I -- I'm obviously not there to see
 22 the patient, but in his physical assessment of the
 23 patient, he said the patient looks fine. So I would
 24 assume that he -- he is stable at the time that he

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1 sees him in the office. His blood pressure was 140
 2 over 90, his pulse was 88. To me, the patient
 3 sounds stable. My terminology would have been he
 4 has angina postinfarction.
 5 Q. What benefit is there to the patient in
 6 waiting? Is there any single medical benefit you
 7 can think of?
 8 A. In waiting for what?
 9 Q. Is there any singular medical benefit
 10 that's conferred upon this patient by waiting to
 11 have his catheterization done till early next week,
 12 as Dr. Auerbach suggests in his letter?
 13 A. Well, he just started him on medical
 14 therapy. I don't think there's any detriment to
 15 waiting. He had been on no medi- -- He had only
 16 been on aspirin previous to that visit.
 17 Q. At this point in time, July 3rd, we are 17
 18 days following his presentation to the emergency
 19 room. Correct?
 20 A. That's correct.
 21 Q. Where he -- We now know, and even
 22 Dr. Auerbach knew, he had a myocardial infarction;
 23 correct?
 24 A. Correct.

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1 Q. He had given at that point a two-day
 2 history of pain that preceded that visit; correct?
 3 A. That's correct.
 4 Q. So we're 19 days into him having cardiac
 5 symptomatology.
 6 A. Correct.
 7 Q. He receives his first medical therapy at
 8 this point; and according to Dr. Auerbach, the
 9 angina is unstable, he's had an infarction, he has
 10 all of the risk factors that you described, and he
 11 even notes he has mildly elevated sugar but does not
 12 carry the diagnosis of diabetes. Even that's
 13 becoming a clouded issue now; correct?
 14 A. Except for the part that he'd received no
 15 medical care. Aspirin is considered to be medical
 16 therapy.
 17 Q. He goes on to say that he had an abnormal
 18 stress test which I think underestimates the
 19 severity of this problem.
 20 Do you agree with him?
 21 A. That's his opinion.
 22 I have -- I have no way of knowing that.
 23 Q. Well, one of the things that you're doing
 24 here is you're here to say that he either met the

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1 standard of care or he did not meet the standard of
2 care. And it impacts all of the parties in the
3 case, obviously. And so what you've undertaken to
4 do is to assess whether or not he, in his care and
5 treatment, was reasonable.

6 A. I do believe he was reasonable. That's
7 the opinion of the stress test.

8 Q. Do you agree with that opinion?

9 A. I don't think that it's wrong, but I can't
10 honestly tell you that it's correct.

11 Q. Okay.

12 A. He's taking a very conservative approach
13 to the management of this patient. He is -- he is
14 concerned about the coronary artery disease status
15 of the patient.

16 Q. Let's take him at his word, then.

17 A. Okay.

18 Q. You say he's concerned about the coronary
19 artery disease status of this patient. At his word,
20 he has unstable angina; at his word, it is
21 postinfarction; at his word, he has every risk
22 factor with the exception of diabetes; at his word,
23 he has an abnormal stress test; and at his word, it
24 underestimates the severity of his problem.

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1 Is timing of the catheterization of the
2 essence?

3 A. Do you think that he needs to be admitted
4 to the hospital right now and be done right away?
5 Is that the question you're asking me?

6 Q. My question is, do you believe time is of
7 the essence in performing this catheterization?

8 A. Yes.

9 Q. And what time frame is the reasonable time
10 frame in this clinical scenario?

11 A. I would say within a week he should have a
12 heart catheterization.

13 Q. What's the basis -- If he needs it within
14 a week, what medical benefit is conferred upon him
15 by --

16 Does being on medications for that week
17 make him a better candidate for a cath?

18 A. No. I didn't really get to finish that.

19 Q. Okay.

20 A. I said within a week would be a reasonable
21 time frame for the catheterization if he didn't
22 respond to medical therapy.

23 Q. So he may have responded to medical
24 therapy in a week and it wouldn't have mattered?

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1 He wouldn't have needed the cath?

2 A. He has a fixed defect in his inferior
3 wall, and he has had symptoms on no medical therapy.
4 So he is receiving new therapy, and there is nothing
5 significant in that nuclear scan that absolutely
6 says that he would benefit from coronary
7 intervention.

8 Q. So is it your belief that a week later, if
9 that therapy had worked, he may not even need the
10 catheterization?

11 A. It's very reasonable to put this man on
12 medical therapy and follow him clinically.

13 Q. And not do a cath?

14 A. Correct.

15 Q. Why, then, were you so strong in your
16 answer that medical therapy started on June 27th, a
17 week earlier than that, would not have altered the
18 outcome for this patient? You just sat here and
19 told me that medical therapy on the 3rd may have
20 negated even the need -- you said very reasonable
21 that he may not have even needed the
22 catheterization.

23 Why, then --

24 If therapy was started a week earlier,

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1 isn't it just as very reasonable that he would have
2 not ended up having this myocardial infarction that
3 led to his death?

4 A. I think you put a lot of words in my
5 mouth.

6 Q. I'm not trying to cause --

7 And the record is going to speak for
8 itself.

9 A. Okay.

10 Q. Remember when we talked earlier and I
11 said, do you believe that medical therapy to a
12 probability would have altered the outcome in this
13 case. Do you remember that?

14 A. Yes.

15 Q. Do you remember telling me that it was
16 significantly less than 10 percent chance?

17 A. That's correct.

18 Q. That was any of the medications, whether
19 it was beta blockers alone or all of them in
20 combination; right?

21 A. That's correct.

22 Q. But now I understand you to be telling me
23 that since he had never been on medical therapy as
24 of July 3rd it's reasonable to wait a week, 'cause

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1 medical therapy may have negated the need for a
 2 catheterization.
 3 A. Absolutely.
 4 Q. I am asking you how, then, can you answer
 5 the question the other way if you -- if you're
 6 telling me here that, Hey, I can put him on medical
 7 therapy and in a week he can be great and not even
 8 need a catheterization?
 9 A. That may be the case.
 10 Q. And you say that's very reasonable, was
 11 your exact words.
 12 A. Yes.
 13 Q. Do you stand by those?
 14 A. Yes.
 15 Q. Because I want to put no words in your
 16 mouth.
 17 A. Good.
 18 Q. Why, then, wouldn't medical therapy on
 19 June 27th be very reasonable in stabilizing this
 20 patient and preventing the need for a
 21 catheterization and the myocardial infarction that
 22 killed him?
 23 A. He already had the myocardial infarction
 24 before June 27th.

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1 Q. Not the one that killed him.
 2 A. How do you know that?
 3 Q. When do you believe he had the myocardial
 4 infarction that killed him?
 5 A. He had his myocardial infarction in
 6 documentation at the time of his admission to the
 7 emergency room.
 8 Q. Do you believe that's the myocardial
 9 infarction that killed him or do you believe that it
 10 was a subsequent one?
 11 A. I believe it was the one that killed him.
 12 Q. The first one?
 13 A. Yes.
 14 Q. Okay. Do you believe it was a
 15 continuation of that one infarction or that it was
 16 that fixed defect happened to cause an arrhythmia?
 17 A. I believe that the fixed defect caused an
 18 arrhythmia that caused him to die.
 19 Q. Okay.
 20 A. That's -- Although there can be other
 21 causes, that's what I believe happened to him.
 22 Q. And I must have misunderstood you earlier,
 23 because I thought that what you said was that with
 24 revascularization or medical therapy, he would have

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1 lived an excellent life to a probability.
 2 A. That's not what I said.
 3 Q. What did you say?
 4 A. I said the odds are with medical therapy
 5 he has a very good prognosis, and the odds are with
 6 revascularization he has a very good prognosis,
 7 either way, based upon his Cardiolute defect in his
 8 LV function.
 9 Q. Okay.
 10 A. But he defied those odds. He had sudden
 11 death.
 12 Q. And you -- What is your evidence that he
 13 had sudden death only from that fixed defect?
 14 A. I have no other evidence that he had
 15 another infarction.
 16 Q. Does dead tissue continue to hurt --
 17 A. It can.
 18 Q. -- in the heart?
 19 A. You can have peri-infarct ischemia. There
 20 is nothing to say that he didn't have pericarditis
 21 following the myocardial infarction. There are
 22 other causes of postinfarct angina.
 23 Q. Did he have a fever or any symptoms of
 24 pericarditis that any of these physicians picked up

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1 on?
 2 A. I don't know.
 3 Q. Did you see anywhere in the records that
 4 he had a single symptom of pericarditis?
 5 A. I'm just saying that he could have had
 6 other causes.
 7 Q. And I'm questioning you on the things that
 8 you're throwing out there.
 9 A. Okay.
 10 Q. You said he could have had pericarditis. I
 11 want to know what symptom in the records you see
 12 that supports that.
 13 A. I said he could have had pericarditis. I
 14 didn't say he had it.
 15 Q. I'm asking this -- I'm not attacking you.
 16 I'm asking you a simple question.
 17 What symptoms -- You say he could have had
 18 it. What's your basis?
 19 A. Because patients who have myocardial
 20 infarction often have pericarditis after that.
 21 Q. Okay. So it's a general medical
 22 statement, but you don't have a single clinical
 23 thing or finding in any of these tests that support
 24 it.

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1 A. Correct, just as you do not have anything
 2 to support another heart attack.
 3 Q. Let's go on, 'cause --
 4 A. Okay.
 5 Q. -- I'm not testifying here.
 6 A. Okay.
 7 Q. I'm trying to understand your opinions.
 8 The next thing that you say it could be is
 9 you say it could be some sort of ongoing pain caused
 10 from the first heart attack.
 11 A. My -- my impression is that he has
 12 coronary artery disease, he's had one myocardial
 13 infarction, and there's a likelihood that he still
 14 has coronary artery disease causing his symptoms of
 15 angina. That's what I believe is going on with him
 16 at this present time.
 17 Q. The fixed defect that he had would not
 18 account for his pain, would it?
 19 A. Why do you ask me that? Why -- why are
 20 you assuming that?
 21 Q. I'm not assuming.
 22 Do you agree or disagree?
 23 A. You can have pain with fixed defects.
 24 Q. Is there an adage in the -- in all of the

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1 major cardiology texts that pain equals death?
 2 A. Say that again.
 3 Q. Is there an adage -- and we'll use
 4 Hurst's --
 5 You've heard of Hurst's textbook; correct?
 6 A. I have.
 7 Q. -- that pain equals death?
 8 A. I -- I have never read that.
 9 Q. Okay. Have you heard that --
 10 A. That pain --
 11 Q. -- spoken?
 12 A. Pain of?
 13 Q. That chest pain is symbolic of actual
 14 cells dying in the heart.
 15 A. Oh, that -- that can be true.
 16 Q. Okay.
 17 A. That's not what you said. You said death.
 18 I thought you meant --
 19 Q. Not of the patient.
 20 A. Oh, okay.
 21 Q. I'm talking about heart muscle.
 22 A. Chest pain is very consistent with
 23 myocardial cells dying.
 24 Q. Do you believe, then, that there were

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1 on- -- to a probability, there was ongoing
 2 myocardial cell death from the first documentation
 3 of the heart attack on the 16th through the time he
 4 died?
 5 A. No.
 6 Q. Okay. When do you believe the death to
 7 the heart muscle cells stopped?
 8 A. Probably at the time of his initial
 9 presentation.
 10 Q. Okay. So June 16th of 2001?
 11 A. Yes.
 12 MR. DILLON: 18th.
 13 Q. The 18th. I apologize.
 14 A. June 18th.
 15 Q. From there forward, did he have any
 16 additional death, in your opinion to a probability,
 17 of any of his myocardial cells?
 18 A. I don't know.
 19 Q. Okay. Do you have an opinion as to what
 20 was the mechanism? Was it a supply-and-demand issue
 21 from coronary artery disease that was causing his
 22 ongoing angina?
 23 A. Yes.
 24 Q. Okay. And when we say that, that's

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1 actually an infarction, not necessarily necrosis,
 2 but an infarction of tissue or hypoperfusion of
 3 heart muscle.
 4 A. It's hypoperfusion of heart muscle.
 5 Q. You believe that was going on after
 6 June 18th?
 7 A. Yes.
 8 Q. Okay. Do you believe that that is what
 9 was accounting for his intermittent chest
 10 discomfort?
 11 A. Yes.
 12 Q. Okay. And do you believe that was also
 13 related to the right coronary artery lesion that you
 14 suspect was there?
 15 A. I believe that the problem was in the
 16 right coronary artery distribution.
 17 Q. Is it your testimony that Mr. Lyons was
 18 just that unfortunate individual that more likely
 19 than not was going to fall outside of the -- the
 20 norm?
 21 A. Perhaps.
 22 Q. Obviously, we don't have any studies out
 23 there where we don't treat certain patients
 24 intentionally. Once we diagnose someone, we usually

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1 treat them; correct?
 2 A. Yes.
 3 Q. But you believe that even with treatment,
 4 he, for some reason, would not have been amenable to
 5 any benefit from it, and he would have been an
 6 outlier who died?
 7 A. No. I didn't say that.
 8 Q. Okay. With medical therapy initiated on
 9 June 27th, to a probability, does he live?
 10 A. No.
 11 Q. Why not?
 12 A. Because he died on medical therapy.
 13 Q. How long do you have to be on medical
 14 therapy before you believe you have a maximum
 15 benefit?
 16 A. Well, beta blockers begin immediately.
 17 Q. Okay. So the fact that he was on beta
 18 blockers from July 3rd to the moment of his death
 19 you believe negates any risk or any question that
 20 they would have helped having been given earlier?
 21 A. It would have been unlikely that they
 22 would have helped earlier.
 23 Q. Same question with reperfusion. Had he
 24 been reperfused by some sort of intervention,

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1 stenting, angioplasty, or bypass, do you believe he
 2 would have died anyway?
 3 A. I believe there's a good chance that he
 4 could have died anyway.
 5 Q. Can you quantify what you mean by "good
 6 chance"?
 7 A. The -- the value of the angiogram would
 8 have told you your chances of survival. So if you
 9 tell me -- If I assume that it's only single-vessel
 10 disease, revascularization conveys no mortality
 11 benefit compared to medical therapy for
 12 single-vessel disease. The nuclear scan says it's
 13 single-vessel disease.
 14 Q. In addition to knowing he has a normal
 15 left ejection fraction, do you know whether there
 16 were gated images in his nuclear scan?
 17 A. I don't know. I'd have to go back and
 18 look at the report.
 19 Q. Do you know whether they found any
 20 dilatation of the left ventricular cavity?
 21 A. I don't recall seeing that in the report.
 22 Q. Do you know if they found a singular sign
 23 that was consistent with ventricular dysfunction,
 24 left ventricular dysfunction?

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1 A. Not that I'm aware of.
 2 Q. Left ventricular dysfunction is one of the
 3 best prognostic factors for revascularization of
 4 patients; correct?
 5 A. That's correct.
 6 Q. And obviously, my client, Jeff Lyons, had
 7 that in his favor; correct?
 8 A. That's correct.
 9 Q. The location of this fixed defect you
 10 believe is at the distal aspect of the heart, is it
 11 near the septum or is it on the back wall of the
 12 left ventricle?
 13 A. I said it's the inferior wall, proximal
 14 inferior wall was affected by the stress Cardiolute
 15 study.
 16 Q. Where's that in relation to the sinus
 17 node?
 18 A. The sinus node? Sinus node is usually
 19 in -- in the -- it typically is in the valvular
 20 plane. It's between the septum -- It's in the high
 21 right atrium.
 22 Q. Is that sometimes called the apical area?
 23 A. No.
 24 Q. Okay. Where the fixed defect is, is it

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1 close to the sinus node?
 2 A. The sinus node tend -- typically is in the
 3 atrium. It's not -- doesn't involve the left
 4 ventricle.
 5 Q. Okay.
 6 A. Now, you can affect the sinus node by
 7 location of the coronary artery lesion, but it's --
 8 that's not what's looked at by the nuclear scan.
 9 Q. I'm just trying to look at things about
 10 this fixed defect.
 11 What about this fixed defect would put it
 12 at high risk to cause an arrhythmia?
 13 A. Once you've had a heart attack, you're
 14 always at risk for an arrhythmia. You can't
 15 stratify the risk of the arrhythmia based upon the
 16 nuclear scan unless the left ventricular function is
 17 abnormal.
 18 Q. Does the location of the defect sometimes
 19 increase the likelihood of an arrhythmia?
 20 A. Yes.
 21 Q. Where this defect is located, is it in the
 22 location that's likely to lead to a fatal arrhythmia
 23 or are there other areas of the heart where a defect
 24 would be much more likely to cause a sudden

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1 arrhythmia?
 2 A. I would approach it as two questions.
 3 Q. Okay.
 4 A. It can cause an arrhythmia.
 5 The anterior wall is usually more suspect
 6 for causing fatal arrhythmias.
 7 Q. Have you ever had a patient who died from
 8 an arrhythmia from a fixed de- -- a small fixed
 9 defect on the inferior portion of the heart?
 10 A. Yes. I have been in practice a long time.
 11 Q. The patient died on July 13th. You don't
 12 believe that anything that anybody would have done
 13 before July 13th would have altered the outcome;
 14 right?
 15 A. I didn't say that.
 16 Q. What, to a probability, could have been
 17 done before July 13th to alter the outcome?
 18 A. Cardiac catheterization.
 19 Q. And how would the catheterization have
 20 altered the outcome, to a probability?
 21 A. It depends on what was found at the
 22 angiogram.
 23 Q. If we assume what was found is what you
 24 suspect, how would it have altered the outcome?

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1 A. If there was only single-vessel disease,
 2 then it would not have altered the outcome.
 3 Q. If there was multivessel disease?
 4 A. It may have altered the outcome.
 5 Q. Because there would have been
 6 revascularization?
 7 A. More than likely.
 8 Q. Dr. Kolibash testified at page 23 that he
 9 believed the most likely cause of death was from a
 10 myocardial infarction, but it's also possible he
 11 could have died from a sudden death from a cardiac
 12 arrhythmia from the scar that he had on his heart
 13 from his previous infarction.
 14 Do you see that?
 15 A. Yes, sir.
 16 Q. So he clearly testified that he believes a
 17 second myocardial infarction occurred. You disagree
 18 with him?
 19 A. He stated that he died from sudden death
 20 from a myocardial infarction.
 21 Are you implying that he meant to say that
 22 he died from a second myocardial infarction?
 23 Q. No. I think he outright says it.
 24 A. Okay.

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1 Q. He says at page --
 2 A. I'm just reading this for the first time,
 3 so I'm just reading it.
 4 Q. I just wanted to read it out loud to you.
 5 I didn't want to blindside you with it.
 6 A. I think I have exactly where you are on
 7 line 12.
 8 Q. I'm not on line 12.
 9 A. Okay.
 10 Q. I'm on page 23. And I can hand it to
 11 you.
 12 A. Okay.
 13 Q. Line 16, it says, "The most likely cause
 14 is that he -- he -- he died from sudden death from a
 15 myocardial infarction; but it is also possible that
 16 he could have died from sudden death from a cardiac
 17 arrhythmia from the scar that he had on his heart
 18 from his previous infarction."
 19 The fact that he uses "previous
 20 infarction" makes it pretty clear that he thought he
 21 had two; correct?
 22 A. I would agree with that.
 23 Q. Do you disagree with him as to the cause
 24 of death, then?

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1 A. I would put them in reverse order.
 2 Q. Okay. You agree that they're both
 3 possible causes, but you believe the scar from the
 4 previous -- from the original infarction, we'll call
 5 it, was the most likely cause.
 6 A. Correct.
 7 Q. You do realize that Dr. Kolibash is the
 8 expert for Dr. Beaver and the group who employed
 9 Dr. Auerbach?
 10 A. Okay.
 11 Q. Do you believe there's any other potential
 12 causes that are out there for death that are
 13 reasonable other than those two?
 14 A. It's unlikely that it's anything other
 15 than one of those two, but I still would consider
 16 these -- the arrhythmia more than likely number one.
 17 Q. You have testified in other cases before;
 18 correct?
 19 A. Yes.
 20 Q. You have testified in other cases where
 21 scope and extent of consultation has been at issue,
 22 too; correct?
 23 A. Maybe.
 24 Q. Do you remember the Mary Boley case?

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1 A. I don't. Can you refresh my memory?
 2 Q. Mary Boley was a patient who had a
 3 perforation of her aorta. The cardiologist
 4 requested an evaluation of why she was having an
 5 alteration of her vital signs.
 6 A. Oh, yes, I do remember that. I sure do.
 7 Q. Dr. Polinski?
 8 A. Yes.
 9 Q. The central issue in that case was --
 10 between the two physicians was what was meant by a
 11 consultation; correct?
 12 A. As I recall, you're correct.
 13 Q. You stand by the testimony you gave in
 14 that case, I assume; correct?
 15 A. Yeah.
 16 Q. In that case you testified for
 17 Dr. Polinski, the cardiologist; correct? --
 18 A. Yes.
 19 Q. -- as to what was meant when a
 20 consultation was requested?
 21 A. I'm sure I stand by my testimony.
 22 Q. Okay.
 23 MR. KELLEY: Take a second. I'm almost
 24 done.

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1 (Brief recess was taken.)
 2 BY MR. KELLEY:
 3 Q. Do you have an understanding as to why the
 4 catheterization wasn't performed the first day that
 5 Jeff Lyons went for it?
 6 A. The only understanding I have is probably
 7 superficial. And I know he had an initial date and
 8 it was canceled; and I'm not exactly perfectly clear
 9 why it was canceled, but I thought it was by the
 10 patient.
 11 Q. Do you have any criticisms of the patient
 12 in this case?
 13 A. I think there are a few things he could
 14 have done better.
 15 Q. And what are those?
 16 A. Not smoke, hopefully have gotten his
 17 catheterization earlier.
 18 Q. So you believe it was his fault that the
 19 catheterization wasn't done?
 20 A. No, I didn't say that.
 21 I know there was an issue with his
 22 insurance in not getting it done. Sometimes -- And
 23 often, patients in our practice, if there's that
 24 issue, are more proactive about getting it done,

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1 especially if the physician has recommended that.
 2 Q. Do you see any evidence that he was ever
 3 told he had an MI?
 4 A. I -- I have no knowledge of personal
 5 discussions between the patient and the doctor.
 6 Q. Did you see the form he filled out for
 7 Dr. Auerbach when he first went to see him?
 8 A. I -- I did review that.
 9 Q. Did he specifically circle "No" where it
 10 says "History of Previous Myocardial Infarction"?
 11 A. Right. I don't know if Dr. Auerbach
 12 informed him that he had a myocardial infarction.
 13 He was pretty clear in his letter to his referring
 14 physician, so it wouldn't surprise me if he told him
 15 he had a myocardial infarction.
 16 (Discussion held off the record.)
 17 BY MR. KELLEY:
 18 Q. Why was Jeff Lyons starting to pass out in
 19 July?
 20 A. I don't know that he had passed out. I
 21 know he filled it out on one of the forms in their
 22 office. That's the only knowledge that I have of
 23 it. I saw nothing else in the medical record other
 24 than Dr. Beaver's consultation that he had had no

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1 syncope. So I am -- I'm not sure when he passed
 2 out, if it was in relation to this visit or not.
 3 Q. Do you -- You have read Dr. Auerbach's
 4 testimony?
 5 A. Yes.
 6 Q. He testified at page 43 that, heart pain
 7 greater than 20 minutes at rest is consistent with
 8 unstable angina.
 9 Do you agree with that?
 10 A. It can be consistent with unstable angina.
 11 Q. He testifies at 44 that unstable angina is
 12 a more serious condition and the physician needs to
 13 be more -- needs to quickly diagnose and treat the
 14 situation.
 15 Do you agree with what?
 16 A. It's more unsta- -- it's more serious than
 17 what?
 18 Q. If you look on 44, I'll let you look at
 19 his words. There is my summary of it. That it is a
 20 more serious condition, and there needs to be a
 21 quick diagnosis and treatment of the situation.
 22 Do you see that?
 23 A. It looks like he was comparing that to
 24 stable angina.

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1 Q. Do you agree with that statement?
 2 A. Yes.
 3 Q. Do you agree that unstable angina patients
 4 are at more risk for future cardiac events and death
 5 than patients with stable angina?
 6 A. Yes.
 7 Q. Do you agree that troponin -- that's page
 8 56 of his deposition -- is now a preferred biomarker
 9 to diagnose myocardial infarction?
 10 A. I think that it's a useful biomarker for
 11 diagnosing myocardial infarction.
 12 Q. Did you see his testimony on page 69
 13 regarding when he would have cathed this patient?
 14 A. Tell me that again. I have page 69 here.
 15 MR. SEWARDS: It's at the bottom of the
 16 page, I think.
 17 A. Okay. I see this.
 18 Q. Does he describe when he would have
 19 performed a catheterization on Jeffrey Lyons?
 20 A. Yes.
 21 Q. When does he say he would have?
 22 A. He -- When they're talking about schools
 23 of invasive strategies for acute coronary syndromes,
 24 he refers to being a believer in an early invasive

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1 strategy, early being within that hospitalization.
 2 And I thought they were generally talking about
 3 acute coronary syndromes in that -- in that regard.
 4 Q. Do you agree that he was a high-risk
 5 patient, Jeff Lyons, based upon his family history,
 6 the risk factors we've gone through, his troponin?
 7 A. Yes.
 8 Q. On page 70, Dr. Auerbach says, With
 9 unstable angina and high risks, he would cath the
 10 patient before they go home.
 11 Do you see that?
 12 A. Yes.
 13 Q. Do you agree that that's a reasonable
 14 position to take for a physician?
 15 A. Yes.
 16 Q. Do you know why that wasn't done here?
 17 A. I think the real key is the -- the
 18 examination by the doctor; did they truly have
 19 unstable angina?
 20 Q. Do you see on page 161 of Dr. Auerbach's
 21 testimony that he believes Dr. Tulebaev should have
 22 noted the troponin?
 23 A. I see that.
 24 Q. Do you agree with him?

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1 A. Yes.
 2 Q. It's a relevant biomarker; correct?
 3 A. I agree.
 4 Q. Do you see on page 162, where he says he
 5 disagrees with Dr. Tulebaev that possible coronary
 6 artery disease was unlikely at that time?
 7 A. Yes.
 8 Q. Do you agree?
 9 A. With?
 10 Q. Dr. Auerbach's assessment that
 11 Dr. Tulebaev's assessment of possible coronary
 12 artery disease being unlikely was wrong, that he
 13 disagreed with it.
 14 A. Uhm, you know, it's -- it's easy to say
 15 that in retrospect. It's -- it would be much easier
 16 to have seen the patient, make a comment. But at
 17 this point in time, I would agree with Dr. Auerbach.
 18 Q. He also says on page 162 he believes more
 19 likely than not that his presentation was consistent
 20 with coronary artery disease. Correct?
 21 A. Correct.
 22 Q. You agree with that; correct?
 23 A. Yes.
 24 Q. Do you see page 88 of Dr. Auerbach's

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1 testimony?
 2 A. Yes, sir.
 3 Q. He says that Dr. Tulebaev called for a
 4 consult with stress test.
 5 Do you see that?
 6 A. Yes.
 7 Q. What do you take that to mean?
 8 MR. SEWARDS: Object.
 9 A. Can you give me exactly where you're
 10 talking about again?
 11 Q. I just have in my notes that it was on
 12 page 88 that he testified that Dr. Tulebaev called
 13 for a consult with stress test.
 14 I'll show you page 88 here.
 15 A. It says here there's a requisition for the
 16 stress test.
 17 Q. So it would have been his call whether or
 18 not --
 19 (Discussion held off the record.)
 20 BY MR. KELLEY:
 21 Q. On page 118, he describes that nothing on
 22 the 26th, that's the note of Dr. Beaver, was
 23 inconsistent with unstable angina.
 24 Do you agree with that statement?

Page 118

1 A. I agree with that statement.
 2 Q. He also testifies -- I think it's around
 3 page 98 -- that he believes the acute myocardial
 4 infarction was 24 to 48 hours before the 18th, which
 5 is when he presented.
 6 Do you agree with that?
 7 A. I have no reason to dispute that.
 8 Q. Dr. Beaver -- I think it was on page 13 --
 9 testified that he didn't even know the patient was
 10 in the hospital on the 18th when he saw him on the
 11 26th.
 12 Did you see that?
 13 A. I'll go find that.
 14 Will you give me the page one more time,
 15 please?
 16 Q. It's 13. I think it's line 13.
 17 A. Okay.
 18 Q. Do you see that Dr. Beaver testified he
 19 didn't even know he had been hospitalized on the
 20 18th?
 21 A. Correct.
 22 Q. Do you have any understanding as to how
 23 that could occur?
 24 A. Uhm, yes.

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1 Q. Can you explain it?
 2 A. I'm not sure of the answer, but I -- I do
 3 see how that can occur.
 4 Q. Obviously, you get paid for imposing on
 5 your time.
 6 How much do you charge?
 7 A. For this deposition?
 8 Q. For first your review of cases, then
 9 obviously depositions and trials.
 10 A. I charge \$400 an hour to review cases,
 11 \$450 an hour to do deposition.
 12 Q. And do you have any idea of how much --
 13 First, were there any other letters that
 14 were provided to you that you didn't keep, any cover
 15 letters or things that came afterwards?
 16 A. Everything I have is right here.
 17 Q. Okay. And when you get paid for your
 18 deposition, will you charge \$900 for it or is it an
 19 hourly rate and we'll owe you more if you go over?
 20 A. You could owe me more if this keeps going.
 21 Q. What I like to hear. Like to keep the
 22 economy going.
 23 A. Yes.
 24 Q. I think I have one last question.

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1 Are you licensed to practice in the state
 2 of Ohio? Goofy question. I got to ask it, though.
 3 A. Yes, sir.
 4 MR. KELLEY: All right. I have no further
 5 questions.
 6 MR. SEWARDS: I have just a couple. I
 7 promise not to take long, 'cause I know that it's
 8 later in the evening and everybody wants to go on to
 9 other things.
 10 - - -
 11 CROSS-EXAMINATION
 12 BY MR. SEWARDS:
 13 Q. Doctor, when a patient has chest pain,
 14 there are lots of ways that physicians can evaluate
 15 the nature, extent, and cause of chest pain. Is
 16 that fair to say?
 17 A. Yes.
 18 Q. One of the things that can be done to
 19 evaluate a patient who has chest pain is to have
 20 them undergo a Cardiolite stress test. Is that fair
 21 to say?
 22 A. Yes.
 23 Q. In your review of the records, the
 24 hospital records, the office charts, and the

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1 deposition testimony of the various physicians as
 2 you have described, did you see anywhere where it
 3 had been directly communicated or indirectly
 4 communicated to Dr. Beaver that this patient had
 5 been hospitalized and had suffered a myocardial
 6 infarction?
 7 A. Not that I'm aware of.
 8 Q. I'm going to come over to you because it
 9 will be faster if I just show you things.
 10 (Discussion held off the record.)
 11 Q. And I'm looking at the Fayette County
 12 Memorial Hospital records, and specifically
 13 Dr. Tulebaev's typewritten discharge summary.
 14 In his discharge summary, he makes
 15 reference that he was going to have the patient
 16 follow up with Dr. Gebhart, and then he also
 17 mentioned that he thought it would be useful also
 18 to follow up with Dr. Auerbach next Tuesday for a
 19 stress Cardiolite test. Is that correct?
 20 A. That's correct.
 21 Q. And he doesn't mention anything there
 22 about ordering or referring for a full cardiology
 23 consultation. Is that correct?
 24 A. That's correct.

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1 Q. A stress Cardiolite test does not equate
2 with a full cardiology consultation. Is that
3 correct?
4 A. Correct.
5 Q. Now, on the order sheet that Dr Tulebaev
6 signed off on, he wrote, Follow up with Dr. Auerbach
7 next Tuesday for a stress test Cardiolite.
8 Do you see that?
9 A. Yes.
10 Q. Did anywhere on there did he order a full
11 cardiac consultation?
12 A. No.
13 Q. A moment ago, Doctor, you said in response
14 to a question that you could understand how
15 Beaver -- Dr. Beaver would not know that the patient
16 was hospitalized.
17 Was there a particular circumstance or set
18 of circumstances that you might be referring to?
19 A. Yes.
20 Q. Could you explain that to us?
21 A. Sure.
22 I -- I can imagine a circumstance where
23 all patient records don't come over with the patient
24 at the time of examination. That's happened to me

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1 before. And if -- if you don't ask the question,
2 Have you specifically been hospitalized recently, or
3 if the patient doesn't volunteer that information,
4 that can happen.
5 Q. And you have reviewed Dr. Beaver's report
6 of consultation, as Mr. Kelley will certainly remind
7 me that's what it's called, --
8 A. Yes.
9 Q. -- the two-page typewritten report?
10 Did it appear to you that he had
11 questioned this patient --
12 A. Yes.
13 Q. -- and asked him about his problems and
14 pains and difficulties?
15 A. Yes.
16 Q. Did it appear to you that Dr. Beaver had
17 just ignored the patient or not asked him very many
18 questions and then just proceeded with the stress
19 test?
20 A. No. I -- I don't believe he ignored the
21 patient.
22 MR. SEWARDS: Thank you. Those are all
23 the questions I have.
24 ---

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CROSS-EXAMINATION

1 BY MR. LODICO:
2 Q. Doctor, I just want to be sure that I
3 understand your earlier testimony. And I represent
4 Dr. Tulebaev.
5 As I understood your earlier testimony,
6 it -- whether or not certain tests and so forth are
7 ordered and conducted at the time depends upon the
8 doctor's clinical evaluation of the patient at the
9 time he's seeing him. Correct?
10 A. Absolutely.
11 Q. And based upon what Dr. Tulebaev was
12 seeing at the time that Mr. Lyons was in the -- the
13 hospital at Fayette County, it was, as I understood
14 your testimony, reasonable for him to have sent the
15 patient home to have follow-up examinations later.
16 A. As long as the patient was clinically
17 stable.
18 Q. And again, that's based on a number of
19 factors, the results of whatever testing was done,
20 but also on the appearance of the patient as far as
21 the doctor is concerned. Correct?
22 A. And discussion of the patient's symptoms
23 with the physician.
24

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1 Q. Right.
2 And based upon what you see in the
3 records, it's your opinion that it was reasonable
4 for Dr. Tulebaev to have sent this patient for a
5 follow-up at a later time?
6 A. Yes.
7 MR. LODICO: Thank you, sir. I have no
8 further questions.
9 MR. KELLEY: I don't have any follow-up.
10 MR. DILLON: Okay. We'll read it.
11 (Signature not waived.)
12 ---
13 Thereupon, the deposition concluded at
14 approximately 6:55 p.m.
15 ---
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AFFIDAVIT

THE STATE OF OHIO:

SS:

COUNTY OF FRANKLIN:

I, Steven Joseph Yakubov, M.D., do hereby
 certify that I have read the foregoing transcript of
 my deposition given on April 20, 2004; that together
 with the correction page attached hereto noting
 changes to form or substance, if any, it is true and
 correct.

 Steven Joseph Yakubov, M.D.

I do hereby certify that the foregoing
 transcript of the deposition of Steven Joseph
 Yakubov, M.D. was submitted to the witness for
 reading and signing; that after he had stated to the
 undersigned Notary Public that he had read and
 examined his deposition, he signed the same in my
 presence on this day of , 2004.

 NOTARY PUBLIC, STATE OF OHIO

My Commission Expires:

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CERTIFICATE

THE STATE OF OHIO:

SS:

COUNTY OF FRANKLIN:

I, Beth A. Higgins, a Registered
 Professional Reporter and Notary Public in and for
 the State of Ohio, do hereby certify that before the
 taking of his said deposition, the said Steven
 Joseph Yakubov, M.D. was first duly sworn by me to
 tell the truth, the whole truth, and nothing but the
 truth;

That said deposition was taken in all
 respects pursuant to the stipulations of counsel
 heretofore set forth; that the foregoing is the
 deposition given at the said time and place by the
 said Steven Joseph Yakubov, M.D.;

That I am not an attorney for or relative
 of either party and have no interest whatsoever in
 the event of this litigation.

IN WITNESS WHEREOF, I have hereunto set my
 hand and official seal of office at Columbus, Ohio,
 this 30th day of April, 2004.

 Beth A. Higgins, RPR
 Notary Public, State of Ohio

My Commission Expires: July 17, 2005.
