

UNITED STATES DISTRICT COURT

NORTHERN DISTRICT OF OHIO

EASTERN DIVISION

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HERSCHEL H. JONES, JR.,
EXECUTOR OF THE ESTATE OF
MELISSA JONES, DECEASED,

Plaintiff,

vs.

: Case No. 1:99CV332

BHAILAL G. GONDALIA, M.D.,
et al.

Defendants.

:

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. DEPOSITION

of **BRUCE L. AUERBACH**, a witness herein,
called by the defendants under the applicable Rules of
Civil Procedure, taken before me, Jackie Olexa White,
RPR-CM, a Notary Public in and for the State of Ohio, at
the home of the deponent, 9961 Sylvian Drive, Dublin, Ohio,
on Monday, April 3, 2000, at 6:15 p.m.

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A P P E A R A N C E S

REPRESENTING THE PLAINTIFF:

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Monday Evening Session

April 3, 2000

6:15 p.m.

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STIPULATIONS

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It is stipulated by and between counsel for the respective parties that the deposition of BRUCE L. AUERBACH, M.D., a witness herein, called by the defendants under the applicable Rules of Civil Procedure, may be taken at this time and reduced to writing in stenotypy by the Notary, whose notes then after may be transcribed out of the presence of the witness; and that proof of the official character and qualification of the Notary is waived; that the examination, reading and signature of the said BRUCE L. AUERBACH, M.D. to the transcript of his deposition are waived by counsel and the witness; said deposition to have the same force and effect as though signed by the said BRUCE L. AUERBACH, M.D.

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BRUCE L. AUERBACH, M.D.

being by me first duly sworn, as hereinafter certified,
testifies and says as follows:

CROSS-EXAMINATION

BY MR. STUHR:

Q. Would you please state your name and
professional address?

A. Bruce L. Aurerbach, 423 East Town Street,
Columbus.

Q. Dr. Auerbach, my name is Richard Stuhr. I
represent Drs. Modi and Gondalia. And, as you know, we're
here today to elicit the opinions that you hold in
connection with this case.

In the event I ask you a question you don't
understand or that doesn't make any sense, please let me
know.

A. Yes.

Q. You've had your deposition taken previously?

A. Yes.

Q. Would you please tell me where and when you
went to medical school?

A. Hahneman Medical College from 1997 to --
1977 to 1981.

MR. KULWICKI: I thought I sent you a copy

1 of Dr. Auerbach's curriculum vitae. I have my own copy
2 here, which I'll be happy to share.

3 MR. STUHR: I was going to ask you if you
4 had an extra. It doesn't mean you didn't send it. I
5 appreciate that. Just give me one second, and we'll be set
6 on the time.

7 Q. Then you did three years of internal
8 medicine at the Medical University of South Carolina, is
9 that right?

10 A. Yes.

11 Q. Completed that in 1984?

12 A. Correct.

13 Q. Following which you came to Columbus and did
14 cardiovascular medicine at Mount Carmel --

15 A. Yes.

16 Q. -- is that right?

17 That was a fellowship, two-year fellowship?

18 A. Yes.

19 Q. And you're boarded in both internal medicine
20 and cardiovascular disease 1985, 1987 respectively?

21 A. Yes.

22 Q. And I take it you've practiced here in
23 Columbus continuously since that time?

24 A. Yes.

1 Q. And do you practice solely out of the
2 Mount Carmel Hospitals or do you have privileges elsewhere?

3 A. Several of the hospitals.

4 Q. Oh, I see, it's right on here, Grant, Park,
5 and Berger in Circleville, is it?

6 A. Yes.

7 Q. Is Mount Carmel your primary hospital?

8 A. Yes.

9 MR. STUHR: Thanks, Dave.

10 MR. KULWICKI: Sure.

11 Q. Would you give me sort of a general
12 description of the nature of your practice, what do you do?

13 A. I'm in the private practice of medicine. I
14 work with several other cardiologists. I do diagnostic
15 cardio cath, angioplasty. Two-thirds of my practice is in
16 the hospital, a third is out of the hospital in the office,
17 busy practice.

18 Q. I take it you, obviously, have had occasion
19 to see and diagnose and treat many patients with both
20 pneumonia as well as congestive heart failure?

21 A. Yes.

22 Q. I mean, I would assume also that given your
23 specialty that as between those two, it's more common for
24 you to treat patients with heart failure as opposed to

1 pneumonia?

2 A. Definitely. If I have a patient whose
3 primary diagnosis is pneumonia, I consult a pulmonologist
4 always.

5 Q. As you know, Dr. Modi is a cardiologist,
6 Dr. Gondalia is a pulmonologist. Is it your intention to
7 offer any opinions regarding Dr. Gondalia?

8 A. Yes.

9 Q. Okay. As well as Dr. Modi?

10 A. Yes.

11 Q. Okay. And is that because you believe there
12 is some overlap here in terms of the medical issues
13 involved as between pulmonology and cardiology? In other
14 words, you obviously are trained as a cardiologist?

15 A. Yes.

16 Q. Okay. Dr. Gondalia, on the other hand, is
17 trained as a pulmonologist?

18 A. Yes.

19 Q. Do you feel that you're sufficiently
20 qualified to comment on the standard of care owed by a
21 pulmonologist as opposed to a cardiologist?

22 A. I think so, yes. I have many patients which
23 have had both illnesses. I've had the opportunity to work
24 with several pulmonologists. I have I think enough

1 experience in that line to be able to comment on what would
2 be appropriate for a pulmonologist to do in a patient who
3 presented as this one did.

4 Q. Okay. Now, as you know, when Mrs. Jones was
5 initially treated at the -- I believe it's the Minnie
6 Hamilton Clinic?

7 A. Yes.

8 Q. You're familiar with that?

9 A. I've reviewed no records from
10 Minnie Hamilton.

11 Q. Let's talk about the records you have
12 reviewed. I assume you've seen what we all think is the
13 entire chart from St. Joseph's Hospital?

14 A. Yes.

15 Q. Have you seen any other medical records
16 other than those?

17 A. I've seen nothing other than what is
18 contained in the folder that I have here and the deposition
19 of the two physicians.

20 MR. STUHR: Dave, do you know if he has
21 anything other than St. Joe's?

22 MR. KULWICKI: Yes. I believe, Doctor, you
23 have been provided with records from the Cleveland Clinic
24 admission,

1 THE WITNESS: That is true, and also some
2 primary care physician records also.

3 MR. KULWICKI: Correct, from Dr. Dischoso
4 and Dr. Jaiyaswal, J A I Y A S W A L.

5 Q. Let's go about it this way: Was there
6 anything in the records other than the St. Joseph's records
7 that you believe are relevant to the issues as you
8 understand them in this case?

9 A. With the understanding that I have not seen
10 the Minnie Hamilton records, they may be relevant. It's
11 fair to say the only relevant records I reviewed is from
12 St. Joseph's and the depositions.

13 Q. And I presume the depositions are those of
14 Drs. Modi and Gondalia?

15 A. Yes.

16 Q. Any others?

17 A. No.

18 Q. Have you seen any notes?

19 A. No.

20 Q. I apologize for this cough drop, but I'm
21 trying not to sneeze and cough over everybody.

22 Okay. I presume that we're here today
23 because you're of the opinion that Mrs. Jones had
24 congestive heart failure which went untreated?

1 A. Correct.

2 Q. And I presume that you're of the opinion
3 that she should have been placed on a diuretic shortly
4 after admission?

5 A. Yes.

6 Q. And I presume you're of the further opinion
7 that had that occurred we probably wouldn't be here today?

8 A. Yes.

9 Q. Do you, in addition to holding the opinion
10 that Mrs. Jones had congestive heart failure upon admission
11 to St. Joseph's Hospital, also hold the opinion that she
12 had pneumonia?

13 A. I'm unsure whether she had pneumonia or not.

14 Q. Have you in addition to the records we've
15 already discussed seen any of the chest films?

16 A. Yes.

17 Q. Okay. As a cardiologist, do you feel
18 sufficiently qualified and trained to interpret those chest
19 films for the presence or absence of pneumonia?

20 A. Yes.

21 Q. If you can explain to me why is it you're
22 uncertain whether Mrs. Jones had pneumonia based on the
23 chest films?

24 A. A patient may have pneumonia and not have

1 the classical chest x-ray. It's fairly common for patients
2 to present with chest x-ray findings and clinical findings
3 where one would be uncertain whether they had congestive
4 heart failure, pneumonia or both.

5 Would you repeat your question? Would you
6 repeat his question, please?

7 (Previous question was read back.)

8 THE WITNESS: Okay. That is the entirety of
9 my answer.

10 Q. All right. Did you see any evidence of
11 improvement of the appearance of the chest films following
12 admission?

13 A. No.

14 Q. How do you define cardiomegaly other than
15 enlargement of the heart? Specifically, how do you
16 personally define it?

17 A. Based on a chest x-ray or in the general
18 real world?

19 Q. Let's talk about a chest x-ray, first of
20 all. Do you, like some people, do you actually measure the
21 heart size on a chest x-ray?

22 A. No.

23 Q. I take it you use a chest x-ray in the
24 overall context of evaluating a patient to the presence or

1 absence of congestive failure?

2 A. Yes.

3 Q. But you do not rely exclusively on that
4 chest x-ray to make that diagnosis?

5 A. No.

6 Q. You'd agree the clinical picture is at least
7 as important if not more so than the appearance of a chest
8 .film in attempting to rule in or rule out congestive
9 failure?

10 A. You have to have clinical history to make a
11 diagnosis of congestive heart failure. People can have
12 congestive heart failure and have a normal chest x-ray. It
13 depends on your definition of congestive heart failure.

14 Q. Why don't you give me yours. What is your
15 definition?

16 A. My definition of congestive heart failure is
17 a clinical condition that results in an increased amount of
18 fluid in the lungs. I believe that in the world of
19 internal medicine and primary care, other things are lumped
20 in to congestive heart failure.

21 Somebody who has swollen legs may be given a
22 diagnosis of congestive heart failure. Somebody who has a
23 primary lung problem resulting in a problem with the heart
24 that results in the development of swelling of the legs can

1 be given a diagnosis of congestive heart failure.

3 One of the things I do when I have medical
4 students or residents is make sure that they know what they
5 are saying and what they mean when they make a diagnosis of
6 congestive heart failure since it can mean different things
7 to different people.

8 Q. Let's fast forward for a moment. What do
9 you believe the immediate precipitating cause of
10 Mrs. Jones' arrest was on February 10th?

11 A. The accumulation of problems that she had
12 over the preceding four or five days culminating in her
13 inability -- her body's inability to compensate for her
14 underlying problem. She finally got too tired. She
15 couldn't breathe as hard -- she finally got so tired of
16 huffing and puffing that she couldn't breathe any more.
17 She finally had enough fluid develop in her lungs that she
18 could no longer breathe hard enough to compensate for the
19 inability to get oxygen in to her system.

20 She may have developed -- it's reasonable to
21 think she developed enough low cardiac output, inadequate
22 blood flow, that she got too tired to continue. She may
23 have gotten so generally sick that her myocardial perfusion
24 dropped and her already poorly functioning heart functioned
worse.

1 Q. At some point did Mrs. Jones become hypoxic?

2 A. You know, I don't remember the -- she was
3 hypoxic -- she was relatively hypoxic throughout her whole
4 hospitalization. She had lowish oxygen content to the
5 blood despite being on oxygen. I don't recall seeing
6 arterial blood gas that demonstrated -- a low arterial
7 blood gas, something less than 90 percent, I don't recall
8 that.

9 Q. What do you believe the precipitating cause
10 of Mrs. Jones' congestive failure was?

11 A. She had blockages in all three of the main
12 blood vessels that feed the heart, and her heart muscle
13 suffered from chronic insults, infarctions, and also
14 suffered from what would be, I think, the chronic ischemic
15 state where she simply was not getting enough oxygen to a
16 heart muscle that was otherwise alive and capable of
17 squeezing.

18 Q. And do you believe that Mrs. Jones suffered
19 an MI shortly before her arrest?

20 A. Probably, but not definitely.

21 Q. And what do you believe the cause, assuming
22 she did, in fact, experience an MI shortly before her
23 arrest, what do you believe the cause to have been?

24 A. It would have been a blockage in one of the

1 blood vessels that feeds her heart, that is a thrombus
2 developing in one of the blood vessels that feeds the heart
3 enough to put her over the edge so that the heart muscle
4 that was not getting sufficient oxygen for days or weeks
5 ahead of time now had so little oxygen that the heart
6 muscle started to die.

7 Where is the autopsy?

8 Q. I was just going to say, have you seen the
9 autopsy?

10 A. It's here.

11 Q. Now, I can't remember where I gleaned this
12 from, but I believe the autopsy refers to an acute focal
13 alveolar damage. Is that consistent with your
14 recollection? And, if not, I'll find it for you. I can
15 find my copy.

16 A. He talked about mild focal acute neuronal
17 necrosis.

18 MR. STUHR: Here we go.

19 (Previous question was read back.)

20 MR. KULWICKI: I found the reference, if you
21 want to ask about it.

22 MR. STUHR: Sure. Where did you see it?

23 MR. KULWICKI: I'm looking at the first page
24 in your set right underneath severe congestive heart

1 failure, all caps, bilateral and focal acute alveolar
2 damage. Do you see that?

3 Q. Would you agree with me that a finding in
4 the autopsy of focal acute alveolar damage is consistent
5 with pneumonia?

6 A. I don't know.

7 Q. Let me suggest a scenario to you and ask
8 you, first of all, whether you agree or disagree with this
9 proposition. That in light of what we now know was some
10 significant preexisting atherosclerotic disease found at
11 autopsy, would you agree with me that notwithstanding the
12 presence or absence of congestive failure, Mrs. Jones may
13 well have had an arrest as a consequence of her multiple
14 vessel disease, which in turn resulted in ischemia, and
15 which likewise in turn resulted in an arrhythmia; is that a
16 plausible scenario?

17 MR. KULWICKI: Objection, does not meet
18 evidentiary standards of Ohio law.

19 (Previous question was read back.)

20 A. Would you define plausible?

21 Q. Sure. I mean, is that within the realm of
22 reason for a cardiologist, in other words, to conclude that
23 the cause of death may well have been due to her underlying
24 heart disease, which caused ischemia, which in turn caused

1 a fatal arrhythmia?

2 MR. KULWICKI: Same objection.

3 A. I think it's more likely than not that she
4 would have survived if she would have been treated
5 appropriately.

6 Q. Survived what?

7 A. That hospitalization. Would have survived
8 to undergo that hospitalization, to have survived cardio
9 by-pass grafting.

10 Q. What I'm suggesting to you is that we take
11 the congestive failure and set that aside for a moment.
12 And what I'm inquiring about is whether the cause of death,
13 irrespective of the congestive failure, may well have been
14 her underlying heart disease that resulted in a fatal
15 arrhythmia unrelated to the congestive failure?

16 A. You can't separate those two things out.

17 Q. So do I understand you to say that you can't
18 comment one way or the other with regard to whether, in
19 fact, her death may have been due to her underlying heart
20 disease which resulted in an arrhythmia? In other words,
21 you just can't say one way or the other?

22 A. I believe that if she had been treated
23 appropriately, she would have survived that admission and
24 undergone by-pass surgery.

1 Q. Let me see if I can word this differently so
2 we can get where I am trying to go here. Let's assume that
3 Mrs. Jones had been treated in the manner in which you
4 believe she should have been treated, in other words, that
5 the congestive failure should have been addressed upon
6 admission. And let's assume it was addressed appropriately
7 as you would define it. Would you agree with me that
8 notwithstanding that treatment for the congestive failure,
9 Mrs. Jones might well have died as a result of her
10 underlying heart disease, which may have in turn caused
11 ischemia, and in turn resulted in a fatal arrhythmia --

12 A. No.

13 MR. KULWICKI: Objection, asked and
14 answered.

15 Q. -- during that admission?

16 A. No, I don't believe that. I believe that if
17 she had been treated for her congestive heart failure, she
18 would have had several things -- several things would have
19 been better for her. Her heart would not have been so
20 stressed. She would not have had as much myocardial
21 ischemia. She would have likely been diagnosed quicker as
22 having an unstable coronary problem and should have
23 survived to undergo diagnostic cardio catheterization and
24 coronary by-pass grafting.

1 'Having congestive heart failure is stress on
2 your coronary arteries. When somebody has congestive heart
3 failure the pressures inside of the heart increase. As a
4 consequence, blood flow from the heart blood vessels to the
5 heart muscle is impaired. There is less of a gradient.
6 The blood flow -- the blood wants to go from your blood
7 vessels down to the inside of the heart muscle.

8 If you have somebody with so much
9 pressure -- if you have somebody with a very high pressure
10 in the heart muscle, itself, that reduces the flow of blood
11 from the heart blood vessels to the heart muscle and makes
12 one more ischemic, makes one generally more unstable, so
13 heart failure begets heart failure.

14 Q. So if we assume that Mrs. Jones suffered
15 from ischemia, it's your belief that ischemia was brought
16 about by the congestive failure?

17 A. Worsened.

18 Q. Okay. I think you've already told me you
19 didn't take any notes during the course of your review. Do
20 you, as you sit here today, do you recall the appearance of
21 or your interpretation of the chest films?

22 A. Yes.

23 Q. Okay. When did you last see those films?

24 MR. KULWICKI: Let me interrupt. You raise

1 a good point. We did send Dr. Auerbach copies of the
2 films, and I think you indicated you do have the actual
3 films?

4 THE WITNESS: Yeah, yeah.

5 MR. KULWICKI: We didn't mention that at the
6 beginning. I think that is because they weren't in front
7 of us.

8 Q. You do have them?

9 A. Yes. I said I reviewed them, and I do have
10 them.

11 Q. Okay. Do you have them here?

12 A. Yeah.

13 Q. If you need them, feel free to get them and
14 refer to them. Are they readily available?

15 A. Yeah.

16 Q. Okay. Would you agree with me that the
17 February 6th chest x-ray demonstrates improvement of the
18 infiltrates on the left with worsening on the right?

19 A. I'll be back.

20 Q. I had a feeling that would be the case.

21 Would you agree with me that the
22 February 6th chest x-ray demonstrates improvement of the
23 infiltrates on the left with worsening on the right as
24 compared to the film of February 5th?

1 A. I think that given the difference in
2 technique they are the same.

3 Q. Now, what do you mean by the difference in
4 the technique?

5 A. One chest x-ray has a little bit more
6 radiation going through than in this one -- than this one
7 does.

8 Q. Okay. All right. If you would turn to the
9 February 7th chest x-ray.

10 A. Okay. Yes.

11 Q. Okay. Would you agree with me that the
12 February 7th chest x-ray reveals the presence of bilateral
13 mid long and peri-hilar infiltrates?

14 A. Yes.

15 Q. Would you agree with me that the minor
16 fissure is elevated and has infiltrates immediately
17 superior to it?

18 A. Yes. Infiltrates are fluid, I wouldn't be
19 able to tell the difference.

20 Q. How do you explain the elevation of the
21 minor fissure?

22 A. I have no explanation.

23 Q. Do you know what conditions can produce
24 elevation of the minor fissure?

1 A. No.

2 Q. Would you agree with me that, typically, you
3 do not see infiltrates involving the minor fissure in
4 patients with congestive heart failure?

5 A. One would see fluid in the minor fissure in
6 patients with congestive heart failure.

7 Q. Would you see elevation of the minor fissure
8 in patients with congestive failure?

9 A. I don't think so.

10 Q. Do you see any evidence of consolidation in
11 the February 6th chest x-ray, going back again?

12 A. There is no -- no.

13 Q. Okay. Now, are you aware that the
14 radiologist -- and there is a couple of these Strobel guys
15 in this case, I think this one is Peter Strobel -- comments
16 with regard to that film that there continues to be
17 consolidation involving the right and left upper lobes. I
18 take it that you do not see that evidence of consolidation
19 in the right and left upper lobes described by Dr. Strobel?

20 MR. KULWICKI: From which date, I am sorry?

21 MR. STUHR: February 6th.

22 A. I suspect that the difference is one of
23 definition as opposed to what we're actually looking at. I
24 would not have called anything I looked at in this chest

1 x-ray consolidation. I would have called it infiltrates.
2 I would have called it infiltrates consistent with
3 congestive heart failure.

4 Q. If you would turn back to the February 7th
5 chest x-ray. What finding in a chest film do you feel are
6 compatible with an infectious process? What do you see,
7 what findings in a chest film?

8 A. You could see many different things. The
9 classical one would be a localized area of consolidation
10 with the rest of the lung normal. You can certainly see
11 diffuse infiltrates like you see on this chest x-ray with
12 pneumonia as well.

13 Q. Would you agree with me that the
14 February 7th chest x-ray demonstrates consolidation and
15 dense peri-hilar infiltrates?

16 A. I would not use that terminology, no.

17 Q. Okay. How would you -- why don't we do
18 this: Would you interpret for me what you see in the
19 February 7th chest x-ray? If you were reading that film
20 cold, how would you interpret it?

21 A. I look at this and I see diffuse bilateral
22 interstitial infiltrates. In addition, I see thickening in
23 the minor fissure, which I would interpret as being fluid.
24 I see Kerley, K E R L E Y, B Line, and I see a suggestion

1 of fluid in at least the right base.

2 Q. Can you have Kerley B lines with pneumonia
3 only?

4 A. No.

5 Q. And does that suggest to you that given the
6 presence of what you believe were Kerley B lines in the
7 February 7th chest film that that is indicative of failure?

8 A. Yes.

9 Q. Based on your interpretation of the
10 February 7th chest film, would you agree with me that there
11 are findings consistent with Bilateral pneumonia?

12 A. Yes.

13 Q. Can you exclude the presence of bilateral
14 pneumonia based on that February 7th chest film?

15 A. No.

16 Q. Would you agree with me that more likely
17 than not by February 7th, Mrs. Jones had bilateral
18 pneumonia?

19 A. No.

20 Q. Now, if you would turn to the February 8th
21 chest film, and, again, tell me what you see.

22 A. Essentially, the same findings. This film
23 is generally more heavily penetrated, so everything is
24 darker. But giving allowance for the difference in

1 technique, I would say that it's the same.

2 Q. And what, if any, evidence do you see of
3 congestive heart failure in the chest x-ray of
4 February 8th?

5 A. Pretty much the same thing, bilateral
6 diffuse infiltrates.

7 Q. Is there anything in that film that tends to
8 exclude a diagnosis of pneumonia --

9 A. No.

10 Q. -- with regard to the film of February 7th?

11 A. Okay.

12 Q. Does it appear to you that the film of
13 February 7th demonstrates more infiltrate and thickening of
14 the minor fissure than the prior films?

15 A. I think it's just a difference in technique
16 between the two films. This one is less penetrated than
17 the one where I said it was more penetrated. This one is
18 generally lighter than the other one.

19 Q. If we assume for the sake of argument just
20 hypothetically that, in fact, the film of February 7th
21 reveals more infiltrate and more thickening of the minor
22 fissure, would you agree with me that that is inconsistent
23 with heart failure?

24 A. No.

1 Q. Now, why did Mrs. Jones have', if she did,
2 adequate output on the first two days, if not the first
3 three days of admission, in the absence of treatment for
4 congestive failure if, in fact, she had?

5 A. Her heart wasn't bad enough to have low
6 output.

7 Q. If you would tell me what treatment you
8 believe was required by the standard of care on the day of
9 admission with respect to congestive failure.

10 A. She should have been given intravenous
11 diuretics, started on an ACE inhibitor.

12 Q. IV diuretics and ACE inhibitor, anything
13 else?

14 A. Not to start, no. Nitrates.

15 Q. And you believe it was a deviation from the
16 standard of care for Dr. Gondalia to fail to institute
17 IV diuretics and an ACE inhibitor on February 5th?

18 A. No.

19 Q. What about Dr. Modi, do you believe it was a
20 deviation from the standard of care for Dr. Modi to fail to
21 institute IV diuretics and an ACE inhibitor on
22 February 5th?

23 A. No.

24 Q. At what point do you believe the standard of

1 care required the commencement of that therapy, namely,
2 IV diuretics and an ACE inhibitor?

3 A. I would think the next day.

4 Q. Okay. And what was it about the course of
5 Mrs. Jones' condition that leads you to the conclusion that
6 IV diuretics and an ACE inhibitor were not required on the
7 5th, but were required on the 6th?

8 A. I didn't say that. What I said is that they
9 did not deviate from the standard of care on the original
10 day of the hospitalization.

11 Q. Right. That is what I meant when I said not
12 required.

13 A. Okay. She failed to get substantially
14 better or better at all, They had the opportunity to
15 witness significant ventricular arrhythmias on the monitor,
16 which should have tipped them off that there was more here
17 than just pneumonia. The CKMB relative index was a little
18 bit on the high side should have been something to tip them
19 off.

20 They should have been thinking about that in
21 the first place knowing her history of atherosclerosis in
22 the past and previous infarction. They should have been
23 thinking about maybe there was more here than pneumonia
24 based on the appearance of the electrocardiogram, which

1 showed a previous infarction.

2 I would think that not putting those pieces
3 together on the first day of her hospitalization would not
4 put them below the standard of care. I think that Dr. Modi
5 probably should have thought enough on the first day to do
6 that or at least to be more aggressive in his evaluation,
7 but by the second day, they should have had enough -- there
8 was enough evidence to tell them that there was something
9 wrong and their diagnosis was wrong.

10 Q. If you would, tell me as specifically as you
11 can what you see in the strips and the EKG that suggests to
12 you that Mrs. Jones was in failure?

13 A. I don't see anything on those strips to
14 suggest that she was in failure.

15 Q. Okay. What do you see in the strips that in
16 combination with other findings should have tipped them off
17 to a diagnosis of failure?

18 A. She had an arrhythmia, which is most
19 commonly seen by far in patients with serious heart
20 problems. She had ventricular tachycardia, multiple runs.

21 Q. Now, when you say multiple runs, can you
22 direct me to what you believe to have been the first
23 episode of ventricular tachycardia during Mrs. Jones'
24 admission to St. Joseph's Hospital? If you would identify

1 what you're looking at.

2 A. Sure. I'm looking at rhythm strips that are
3 from February 6th of '97, and I believe the time is 011,
4 which, I guess, is 11 minutes after midnight, followed by a
5 strip on the same date of what I believe is 3:36 in the
6 morning.

7 Q. Okay. Let me catch up with you here. You
8 said what date?

9 A. It's not that strip.

10 Q. You said the 6th?

11 A. The one I see there -- the first -- what do
12 I have here? I have an EKG dated February the 5th, which
13 shows evidence of anterior heart attack, but no arrhythmia;
14 several other electrocardiograms. I have a rhythm strip
15 from February the 5th, which shows sinus tachycardia. Then
16 I have a rhythm strip from February 6th, which I believe is
17 at 3:00 o'clock in the morning that shows several runs --
18 two runs of ventricular tachycardia; another run where I
19 can't see the time; a run below that February the 6th at
20 4:28, several runs at 4:28; a long run at 4:50, at 7:26, at
21 what I believe is 8:18 in the morning, several, then 2045,
22 2322. I'm going on into the 7th, more runs on the 7th.

23 Q. Okay. And do I understand you to say that
24 you believe those multiple runs of ventricular tachycardia

1 were due to Mrs. Jones' underlying heart disease?

2 A. Yes.

3 Q. And is that unrelated to the congestive
4 failure? In other words, were those runs of V-tac in any
5 way related to the heart failure?

6 A. They are related in that one frequently sees
7 the two together.

8 Q. And can you separate them out in this
9 instance? In other words, do you have an opinion one way
10 or the other whether her runs of V-tac were associated with
11 her failure or are they unrelated to that failure?

12 A. They are clearly associated. Are they
13 causal?

14 Q. Right.

15 A. No.

16 Q. Associated in the sense that there is a
17 relationship in time, a temporal relationship. But do I
18 understand you to say you don't believe there is any causal
19 relationship between the runs of V-tac and the heart
20 failure?

21 A. I do not believe that the ventricular
22 tachycardia caused her heart failure.

23 Q. How, if at all, did these runs of V-tac
24 cause or contribute to Mrs. Jones' death?

1 A. The failure to identify them as ventricular
2 tachycardia contributed to her death in that if the doctor
3 had identified them as ventricular tachycardia, he should
4 have treated her for a heart problem. I don't believe that
5 these particular runs of an arrhythmia were a direct --
6 were a direct cause of her death.

7 Q. When you say they should have been treated
8 if identified, are you now referring to the ACE inhibitor?

9 A. Diuretics, ACE inhibitor, aspirin, initiate
10 an investigation as to the cause of the problem.

11 Q. Can you say one way or the other to a
12 reasonable degree of probability, meaning more likely than
13 not, whether Mrs. Jones would have survived if her
14 ventricular tachycardia had been treated as you suggest?

15 A. I would not treat her ventricular
16 tachycardia specifically. I would treat her underlying
17 cardiovascular problem. If they had treated her underlying
18 cardiovascular problem, I think it would be more likely
19 than not that she would have survived.

20 Q. The underlying cardiovascular problem was
21 what?

22 A. Triple vessel coronary disease and reduced
23 heart pump function.

24 Q. Now, do you fault Drs. Modi and/or Gondalia

1 for failing to diagnose Mrs. Jones' underlying heart
2 problem in the sense that they did not appreciate its
3 severity?

4 A. Yes.

5 Q. And what is the basis for that opinion? How
6 should they have arrived at the conclusion that Mrs. Jones
7 had a more severe heart condition than they appreciated?

8 A, They first should have demonstrated that
9 they thought about it. They then should have made the
10 diagnosis that her presentation was one of congestive heart
11 failure, not pneumonia, or at least predominantly
12 congestive heart failure. They should have initiated a
13 treatment program to treat her congestive heart failure.

14 They should have done an echocardiogram to
15 prove that she had reduced heart pump function. They
16 should have not, if they made that diagnosis, given her
17 Calan.

18 Q. Okay. Do you believe that at some point in
19 time the standard of care required that an echocardiogram
20 be performed?

21 A. Yes.

22 Q. When?

23 A. Day two, the 6th.

24 Q. Do you have an opinion to a reasonable

1 degree of medical probability with respect to what an
2 echocardiogram would have revealed if performed on day two?

3 A. I think that it would have shown a
4 moderately impaired heart pump.

5 Q. Specifically, what?

6 A. I think the ejection fraction would have
7 been 45 percent, and she would have had normal functioning
8 heart valves. And I'm, obviously, making an educated guess
9 at that. I base that educated guess on what her heart pump
10 looked like at the Cleveland Clinic -- or on the last day
11 of her hospitalization at St. Joseph's when they
12 ultimately did an echocardiogram.

13 The echocardiogram at that time showed an
14 ejection fraction of 35 percent implying a moderately
15 severe heart pump problem plus a leaky heart valve. I
16 think by the time they did that echocardiogram, her heart
17 was worse had they looked a few days earlier.

18 Q. What if any harm do you believe was caused
19 by the administration of Calan?

20 A. I think it worsened her congestive heart
21 failure.

22 Q. In what fashion?

23 A. Calan is a drug that has a known depressant
24 effect on the heart pump, makes it squeeze less. It's

1 known to precipitate congestive heart failure 'in people
2 predisposed to it. Calan is contraindicated in the
3 treatment of congestive heart failure. I didn't mean to
4 say that. Calan is contraindicated for the treatment of
5 ventricular tachycardia.

6 Q. Not heart failure?

7 A, No. It's not a good idea, but there are
8 circumstances where one might use it.

9 Q. You do believe Calan worsened the heart
10 failure?

11 A. Yes.

12 Q. And I take it that is because of what you
13 characterized as the depressant effect that Calan has on
14 the heart?

15 A. Yes.

16 Q. By depressive effect, what do you mean?

17 A. The heart is - the heart muscle is designed
18 to squeeze blood out to the rest of the body. Calan is one
19 of the drugs that make it squeeze less vigorously.

20 Q. Now, you've mentioned three criticisms of
21 Drs. Modi and Gondalia as of day two or February 6th. By
22 criticisms, I mean departures from what you consider to be
23 the standard of care. One is the failure to administer IV
24 diuretics; number two was the lack of an ACE inhibitor;

1 three was the failure to obtain an echocardiogram.

2 Now, do you have any other criticisms of
3 Dr. Modi or Dr. Gondalia beyond those three as of
4 February 6th?

5 A. I would criticize Dr. Modi in particular for
6 not identifying that this rhythm was ventricular
7 tachycardia. And I would criticize the use of Calan.

8 Q. As between Drs. Modi and Gondalia, which of
9 them do you believe was primarily responsible on
10 February 6th for managing Mrs. Jones' care?

11 MR. KULWICKI: I am going to object. That
12 assumes that one of them was primarily responsible, and it
13 may be that neither or both were primarily, so with that
14 objection, you might answer.

15 A. Well, looking for his consult for the date
16 and time that he did it --

17 Q. It was dictated on the 5th and transcribed
18 on the 6th.

19 A. I would say --

20 Q. We're talking about Dr. Modi now?

21 A. I would say -- would you repeat the
22 question, please?

23 (Previous question was read back.)

24 A. I can't answer that question because it is

1 dependent upon the practice pattern at that hospital and of
2 those physicians. Technically, the admitting physician is
3 always primarily responsible. In some institutions,
4 notably the one I work at, if a consultant is -- if a
5 consultant comes on the case, that consultant becomes
6 primarily responsible for that aspect of the patient's
7 care.

8 So that if Dr. Modi were working at the
9 hospital where I work, I would say he was primarily
10 responsible. But I don't know that is the way they do
11 things there.

12 Q. If you would turn to Dr. Modi's consultation
13 report. With reference to the entirety of his consultation
14 report, what findings does Dr. Modi describe that you
15 believe are suggestive of heart failure?

16 A. If I don't answer your question, tell me.

17 Q. Okay, I will.

18 A. He describes risk factors for the
19 development of heart blockages, hyper lipedema, smoking.
20 He describes the previous -- had previously had a
21 myocardial infarction. He describes she had angioplasty
22 that was unsuccessful, implying that she needed something
23 done that was not successfully carried out. She's been
24 sick and short of breath. She's been coughing. She's been

1 wheezing. She's been treated with antibiotics without much
2 improvement. She had a run of ventricular tachycardia.

3 Q. You're referring to his reference to the
4 V-tac at Minnie Hamilton?

5 A. Yes. Her pulse rate is a hundred, that is
6 too fast. Her temperature is normal, which should take him
7 away from a diagnosis of pneumonia. She had wheezing on
8 her chest exam. He noticed that she had a previous
9 infarction on her electrocardiogram. And he considered
10 getting an echocardiographic study, which implied he was
11 concerned about her left ventricle.

12 Q. What findings on physical examination and in
13 particular with reference to the heart are suggestive of
14 heart failure?

15 A. There are many starting from the head down.
16 Confusion --

17 Q. I want to confine it -- maybe I didn't make
18 myself clear. Let's confine the conversation at this point
19 to findings on physical examination of the heart. In other
20 words, as you auscultate the heart, what findings are
21 considered to be consistent with failure?

22 A. On auscultation, tachycardia, the presence
23 of a soft S1, the presence of a S3 gallop, a S4 gallop,
24 perhaps a murmur. On palpation of the heart, you can feel

1 a heave or a lift. I'm not one that believe's that
2 palpation of the PMI is of very much use, though, some
3 people do.

4 Q. Is there anything in Dr. Modi's consultation
5 report referable to the heart, his examination of the heart
6 that is suggestive to you of failure?

7 A. No.

8 Q. Do you have any reason to believe that
9 Dr. Modi's evaluation of the heart was inadequate in any
10 way or off the mark?

11 A. I have no way of knowing.

12 Q. Would you agree with me that if, in fact,
13 there was a component of significant failure as of
14 February 5th, there should have been some evidence of that
15 on examination of the heart?

16 A. Many people will have severe heart failure
17 and their cardiac exam is unrevealing.

18 Q. In what percentage of patients with failure
19 do you detect the presence of JVD?

20 A. A minority.

21 Q. Defined as less than 50?

22 A. Less than 50 percent. That, however, gets
23 back to the question of the definition of heart failure.
24 The type of heart failure that Mrs. Jones had would be left

1 heart failure, that is the left heart pump is not
2 functioning, that results in congestion of the lungs.
3 Presuming that her right heart was functioning normally,
4 you would not see JVD.

5 JVD reflects failure of the right heart.
6 Pulmonary edema reflects failure of the left heart. Many
7 people have left heart failure without having right heart
8 failure.

9 Q. To what do you attribute the presence of JVD
10 on February 10th after Mrs. Jones' arrest?

11 A. She developed -- first, JVD is difficult to
12 see. And of all the physical findings that can be missed
13 or misdiagnosed, that is a common one. But assuming that
14 the world's great physical exam people had not seen JVD
15 during her initial examination and did see JVD on the 10th,
16 it would likely be because of her mitral valve had started
17 leaking and developed such severe pulmonary edema that the
18 left heart failure caused right heart failure.

19 Q. Do you recall seeing a reference, I believe
20 in the nurses' notes, at 4:30 a.m. on February 10th of back
21 pain? Do you recall seeing a reference to a complaint of
22 back pain at 4:30 a.m. on February 10th?

23 A. No.

24 Q. I can show it to you, Doctor.

1 A. I see it.

2 Q. You see it, okay. Would you agree with me
3 that the first time there was any mention of a murmur was
4 following the arrest on the 10th?

5 A. Yes.

6 Q. The arrest on the 10th?

7 A. Yes.

8 Q. Would you agree with me that a complaint of
9 back pain at 4:30 on February 10th followed by hypotension,
10 bradycardia and the code, which was then in turn followed
11 by the loud murmur for the first time is suggestive of an
12 acute infarction?

13 A. It would be consistent with, but I wouldn't
14 say suggestive of.

15 Q. Are you able to rule out, to your
16 satisfaction, an acute infarction on February 10th?

17 A. No.

18 Q. To what do you attribute Mrs. Jones'
19 worsening oxygen saturations the morning of February 10 h?

20 A. Worsening pulmonary edema.

21 Q. Do you recall seeing in the autopsy
22 reference to a fresh septal infarction?

23 A. I don't recall seeing the word **fresh**.

24 Q. Do you recall seeing reference to a septal

1 infarction?

2 A. I'm reading it. It says organizing
3 transmural myocardial infarct anterior and posterior
4 interventricular septum.

5 Q. Okay. With respect to that portion of the
6 autopsy that refers to an organizing transmural myocardial
7 infarct anterior and posterior interventricular septum, to
8 what do you attribute that finding?

9 A. Multi-vessel coronary disease, a blockage in
10 one or more of her blood vessels.

11 Q. Do you in any way ascribe that particular
12 finding, the organizing transmural myocardial infarct to
13 congestive heart failure?

14 MR. KULWICKI: I'm going to object to the
15 use of the word **ascribe**. You can go ahead and answer,
16 Doctor.

17 A. I'm having difficulty with the question.

18 Q. Okay. Do you believe that heart failure
19 caused or contributed to the presence at autopsy of an
20 organizing transmural myocardial infarct?

21 A. I think that this patient's congestive heart
22 failure untreated led to worse circulation in one or more
23 of her heart blood vessels, which contributed to the
24 transmural myocardial infarct.

1 Q. So you do believe there is a causal
2 relationship between the heart failure and the transmural
3 infarct?

4 A. Yes. She had triple vessel coronary
5 disease, blockages in all of her blood vessels. Something
6 recently was worse with her that gave her congestive heart
7 failure. One or more of those blockages were worse. That
8 led to a cascading effect, in my opinion, where the
9 worsening circulation to her heart muscle caused by
10 instability of the blockages led to her developing
11 congestive heart failure.

12 The congestive heart failure led to the
13 changes that I described above, which reduced flow to the
14 heart muscle and led to worsening congestive heart failure.
15 Her worsening congestive heart failure led to reduced
16 output to her -- reduced flow through the blood vessels
17 that feed the heart, which worsened the problem and led
18 ultimately to myocardial necrosis.

19 Q. Okay.

20 A. Mostly likely.

21 Q. Okay. What do you believe caused
22 Mrs. Jones' hyponatremia?

23 A. Congestive heart failure.

24 Q. And what is the basis for that opinion other

1 than the fact' that heart failure can cause hyponatremia?

2 A. She had no other particularly good reason
3 for having hyponatremia. In somebody with a bad heart pump
4 whose sodium is low, the vast majority of time there is no
5 other cause for a low sodium other than a lousy heart.

6 Q. How do you account for Mrs. Jones' elevated
7 white count as of I believe it's February 8th?

8 A. It could be stress, it could be pneumonia.

9 Q. My understanding is by February 11th, prior
10 to the transfer to Cleveland Clinic, her white count was
11 20.2. Can heart failure cause such an elevation in white
12 count?

13 A. Cardiopulmonary resuscitation can cause an
14 elevation of your white count to that extent.

15 Q. Then let's go to the white count of 14.8 on
16 February 10th at 5:30 a.m. Do you believe that heart
17 failure played any role in that white count?

18 A. Yes.

19 Q. How so?

20 A. Stress. Elevated white count like that
21 without a significant left shift is a nonspecific finding,
22 but certainly one that is seen in anybody who is generally
23 ill, and certainly one you can see in somebody with
24 decompensated heart failure.

1 Q. And how do you account for Mrs. Jones'
2 elevated glucose on admission?

3 A. It may have been a nonfasting s mple. She
4 could have the tendency towards diabetes, and under the
5 stress her sugar goes up.

6 Q. Do you attribute that elevated glucose in
7 any way to heart failure?

8 A, No. She was getting -- didn't she get a
9 steroid, Solu-Cortef? She was getting Solu-Cortef, at
10 least, and that could also raise sugar. Sugar of 145 would
11 be something I would ignore in a patient, in pretty much
12 anybody, particularly somebody that sick.

13 Q. Is it your belief that Mrs. Jones' heart
14 failure progressively worsened over time?

15 A. I would say that it didn't get any better.

16 Q. Okay. How do you account for the act that
17 on February 8th, Dr. Gondalia noted that Mrs. Jones was
18 feeling better and looked better in the absence of any
19 treatment directed in your view at congestive heart
20 failure? Was she appearing to get better?

21 A. I would say that congestive heart failure,
22 like most illnesses, can have a moment to moment, hour to
23 hour, waxing and waning as far as the subjective appearance
24 of a patient is concerned, and, likewise, as far as the

1 patient's own subjective sense of well-being is concerned.

2 I have many experiences where I'll see a
3 patient and say the patient looks wonderful. And someone
4 sees her an hour later and says she looks terrible and vice
5 versa.

6 Q. Would you expect in a patient with heart
7 failure sufficient to result in the patient's death to be
8 evidenced by edema of the extremities at some point?

9 A. Not necessarily, no.

10 Q. You're aware, I take it, that the progress
11 notes -- at least Dr. Gondalia has indicated on, oh, let's
12 see, February 8th and 9th, indicates that there was no
13 edema of the extremities; do you recall that?

14 A. I do not recall anybody ever saying she had
15 edema at any point in time.

16 Q. Okay. Based on the records you have
17 reviewed, do you have any reason to dispute Dr. Gondalia's
18 reference to the absence of edema of the extremities on
19 February 8th or February 9th?

20 A. No.

21 Q. How do you account for Mrs. Jones' elevated
22 sed rate? I believe it was on February 7th.

23 A. What was the number?

24 Q. That is a good question. I think

1 Dr. Gondalia's progress note erroneously refers to a
2 sedimentation rate of 71. I don't believe it was that
3 high. It seems to me it was in the 40's. Let me see if I
4 can find it. Yeah, February 6th, 12:05 a.m., sed rate 36.

5 A. A sedimentation rate is a very nonspecific
6 test and merely says that she is sick. It's a measure of
7 inflammation. You can have a sed rate from heart failure,
8 you could have elevated heart sed rate from pneumonia, you
9 could have an elevated sed rate from any severe systemic
10 illness.

11 Q. Have you done any review of the medical
12 literature in connection with your participation in this
13 case?

14 A. No.

15 Q. You're involved in the teaching of
16 residents?

17 A. Yes.

18 Q. Cardiology residents?

19 A. No, medical residents.

20 Q. Medical residents. If you were going to
21 refer a medical resident to cardiology textbooks as sort of
22 a baseline source of information, what would those be?

23 A. Braunwald, Topol, as a book, Hearst.

24 Q. And how about journals, what do you consider

1 to be the leading journals in cardiology?

2 A. New England Journal of Medicine, Lancet
3 Circulation, the Journal of the American College of
4 Cardiology.

5 Q. How do you spell Topol?

6 A. T O P O L . T O P O L .

7 Q. Are you familiar with any of the textbooks
8 in the field of pulmonology?

9 A. No.

10 Q. How about internal medicine, what textbooks
11 would you direct a student to in the area of internal
12 medicine?

13 A. Harrison's. I haven't read an internal
14 medicine textbook in 10 or 15 years.

15 Q. And how about in the field of pathology, are
16 you familiar with any textbooks in that specialty?

17 A. No.

18 Q. Now, so far in terms of criticisms of
19 Drs. Modi and Gondalia, we talked about the lack of IV
20 diuretics, lack of ACE inhibitor, failure to obtain an
21 echocardiogram, and failure to appreciate the significance
22 of the ventricular tachycardia as well as administration of
23 Calan. Above and beyond those five criticisms, do you have
24 any others?

1 A. No, none that come to mind.

2 MR. STUHR: Okay.

3 MR. KULWICKI: Richard, there are two very,
4 very minor ones that you haven't touched on yet and that
5 have not come to the doctor's mind. I could certainly
6 suggest those to you.

7 MR. STUHR: Sure, sure.

8 MR. KULWICKI: Or we could leave the record
9 as it stands.

10 MR. STUHR: No, go ahead.

11 MR. KULWICKI: One involves the use of IV
12 inotrope, and the other involves the use of Heparin. And I
13 think we talked about those, Doctor, but I don't know if
14 they fall within your definition of criticisms or not. I
15 took them as such, so I wanted to alert opposing counsel.

16 MR. STUHR: And I appreciate that.

17 Q. Let's talk about those two. You, obviously,
18 have comments with regard to those, is that right? Let's
19 start with the Heparin.

20 A. My comment is that the Heparin was
21 inappropriate for the reason it was used which was to treat
22 this super ventricular arrhythmia, I think, or she came
23 over on Heparin from St. Joseph.

24 Q. From Minnie Hamilton?

1 A. From Minnie Hamilton, for there would be no
2 use for -- for use of Heparin in that case. The one about
3 inotropes, I don't have a criticism about that. You asked
4 me what the first steps would be to treat this patient's
5 congestive heart failure, and I told you. If you had -- if
6 you had asked, I would have said -- if you asked what
7 happens if she doesn't respond to that, I would have used
8 inotrope, which is intravenous medicine that gets the heart
9 to kick a little bit harder. I would not have recommended
10 the use of that drug unless she failed to respond to the
11 other treatments.

12 Q. Okay. Did the administration of Heparin in
13 any way contribute to Mrs. Jones' arrest?

14 A. No.

15 Q. Now, the more mundane stuff. What do you
16 charge for deposition?

17 THE WITNESS: Do you have my charge sheet
18 with you? I don't remember.

19 MR. KULWICKI: It's probably in
20 correspondence.

21 A. I don't remember. It's been ratcheting up
22 for deposition. Between five and six hundred fifty. I
23 don't know where on the scale you are right now. But
24 before you leave, my wife can give you a copy of my fee

1 schedule.

2 Q. How about for review, what are your hourly
3 charges?

4 A. It was between -- it's between 350 and 425,
5 and I've been raising my rates, and I don't remember where
6 on the scale this one is.

7 Q. Okay. And should you appear at trial in
8 Cleveland in May, what do you charge for that?

9 A. It was a thousand dollars an hour with a
10 minimum of two hours to be worked out with the other
11 things, about how long I have to stay away from my practice
12 and how long I have to be away from home.

13 Q. And is that portal to portal, so that if you
14 leave your home at 8:00 in the morning and you get back at
15 8:00 p.m., you charge 12 hours?

16 A. Not at a thousand an hour, no. From the
17 time I'm in court I will charge at least a thousand, not
18 substantially more. I don't remember what the numbers are
19 on my billing sheet. And I'll probably charge an hourly
20 rate for the time that I'm away from home, but I don't know
21 what that is. I have not had to do that before.

22 Q. Have you had occasion to serve as an expert
23 witness in any other cases involving either pneumonia or
24 heart failure?

1 A. Not pneumonia, but not -- I don't believe
2 heart failure. I don't think so.

3 Q. Can you give me an estimate of the number of
4 cases in which you've served as an expert witness? And I'm
5 talking now about medical negligence cases.

6 A. Between five and ten.

7 MR. KULWICKI: Okay. You should clarify
8 when you say serve as an expert. He's not saying --
9 limiting to giving testimony at deposition, but actually
10 reviewing records.

11 Q. Sure. Let me clarify. That is fair. How
12 many medical negligence cases have you reviewed from the
13 standpoint of looking at records irrespective of whether
14 you gave a deposition?

15 A. It's in the ten range.

16 Q. Okay. Of those ten, roughly, how many were
17 on behalf of the plaintiff as opposed to the defendant?

18 A. This is the second.

19 Q. This is the second for plaintiff?

20 A. Correct.

21 Q. Can CPR cause heart failure --

22 A. No.

23 Q. -- in and of itself?

24 Can CPR worsen preexisting heart failure?

1 A. The answer is no, but -- the answer is no.
2 The act of compressing somebody's chest is not going to
3 hurt their heart. However, during the time when somebody
4 requires CPR, their heart muscle is going to be receiving
5 much less oxygen than it should, and a heart muscle can be
6 injured temporarily or permanently as a result of that.

7 Q. Doctor, to the best of your recollection,
8 have we now exhausted the opinions that you hold in this
9 matter? Take your time. In fact, why don't we take a
10 quick break.

11 MR. KULWICKI: Let me throw one out. I
12 think we've covered cause of death, but Dr. Auerbach will
13 also opine as to life expectancy had proper care been
14 given.

15 MR. STUHR: I meant to ask him about that.

16 Q. Let's assume that what you believe to have
17 been the appropriate treatment was, in fact, rendered.
18 Given Mrs. Jones' underlying heart disease, assuming it had
19 been likewise managed by way of by-pass, what do you
20 believe her life expectancy would have been?

21 A. I'm not going to answer that actuarially, I
22 don't know the answer. I think she had a better chance of
23 surviving ten years.

24 Q. Would you agree with me given her underlying