

IN THE COURT OF COMMON PLEAS
LORAIN COUNTY, OHIO
CASE NO. 97 CV 118157

- - - - -
TERRY HERBERT DABULEWICZ, etc., :

Plaintiffs,

Civil Action
DEPOSITION UPON
ORAL EXAMINATION

vs.

Of

THE CLEVELAND CLINIC FOUNDATION, :
et al.,

CRAIG SAUNDERS,
M.D.

Defendants.
- - - - -

TRANSCRIPT of the deposition of
CRAIG SAUNDERS, M.D., a Defendant, called for Oral
Examination by the Plaintiffs in the above-entitled
action, by and before PATRICIA J. RUSSONIELLO, a
Certified Shorthand Reporter and Notary Public of th
State of New Jersey, at the NEWARK BETH ISRAEL
MEDICAL CENTER, 201 Lyons Avenue, J Building, 4th
Floor, Room 3, Newark, New Jersey, on Tuesday, April
6, 1999, commencing at 4:00 o'clock in the afternoon

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I N D E X

WITNESS	DIRECT
CRAIG SAUNDERS, M.D.	
By Ms. Tosti	3

E X H I B I T S

NUMBER	DESCRIPTION	PAGE
Exhibit 1	Eight-page curriculum vitae	3

1 (Exhibit 1 marked for identification.)
2 C R A I G S A U N D E R S, M.D., having been duly
3 sworn by the Notary, testifies as follows:

4 MS. TOSTI: May I have agreement from
5 counsel that Ohio Civil Rules will apply and that
6 there be a waiver to any defect in notice or service
7 of this deposition?

8 MS. CARULAS: Yes.

9 MS. HARRIS: Yes.

10 MS. TOSTI: Hang on just one minute
11 because I'm going to delete some questions that I
12 have here based on the CV that you provided.

13 Bev, Dr. Saunders provided a curriculum
14 vitae and that will be attached as Exhibit 1 to this
15 deposition.

16 MS. HARRIS: Fine.

17 DIRECT EXAMINATION BY MS. TOSTI:

18 Q. Doctor, at the time that you rendered
19 care to Charlotte Herbert who was your employer?

20 A. Cleveland Clinic.

21 Q. And currently who is your employer?

22 A. St. Barnabas Health Care System.

22 Q. And other than St. Barnabas do you
24 provide professional services for any other entity?

25 A. No.

-C. Saunders, M.D. - direct - Ms. Tosti-

1 Q. And at the time that you rendered care
2 to Charlotte Herbert did you provide professional
3 services for anyone other than the Cleveland Clinic?

4 A. No.

5 Q. Have you ever had your deposition taken
6 before?

7 A. Yes.

8 Q. How many times?

9 MS. CARULAS: Just note my objection but
10 go ahead.

11 A. I don't know.

12 Q. More than five?

13 MS. CARULAS: Note my objection.

14 A. Probably not.

15 Q. And in what capacity was your deposition
16 being taken, and by that I mean were you an expert
17 witness or a defendant in the case or a fact witness?

18 MS. CARULAS: Objection.

19 A. Defendant.

20 Q. Now, I'm sure that counsel has reviewed
21 some of the rules of the deposition for you. I'm
22 just going to go through them briefly.

23 This is a question-and-answer session.
24 It's under oath. It's important that you understand
25 the questions that I'm asking. If you don't

-C. Saunders, M.D. - direct - Ms. Tosti-

1 understand the question, let me know. I'll be happy
2 to repeat it or to rephrase it; otherwise, I'm going
3 to assume that you understood the question and that
4 you're able to answer it and I would also ask that
5 you give all of your answers verbally because our
6 court reporter can't take down head nods or hand
7 motions.

8 If at some point you wish to refer to
9 the medical records please feel free to do so.
10 Obviously counsel has a set of records that you can
11 refer to.

12 **Also** at some point during this
13 deposition your counsel or Miss Harris may choose to
14 enter an objection. You are still required to answer
15 my question unless counsel instructs you not to.

16 Do you understand those instructions?

17 A. Yes.

18 Q. Now, Doctor, you had mentioned that you
19 had been named as a defendant in a medical negligence
20 case before. Is that correct?

21 MS. CARULAS: Objection.

22 A. Yes.

23 Q. Okay. How many times have you been
24 named as a defendant?

25 MS. CARULAS: I'll just have a

-C. Saunders, M.D. - direct - Ms. Tosti-
continuing line of objection here. Go ahead.

A. Three or four.

Q. And where were those cases filed?

A. Cleveland and California.

Q. Do you recall the plaintiff's name in
the last case that was filed against you?

A. I think this may be the last one filed
against me.

Q. Well, the one prior to this.

A. I got a block.

Q. Okay. Do you recall the plaintiff's
name in any of the other cases that have been filed
against you?

A. One's name was Penny Taylor in California.

Q. What was the allegation of negligence
that was made in those cases? And if you can recall
from each of the three or four cases I'd like to know
the allegation for each of those.

MS. CARULAS: And again just a
continuing line of objection. Agreed?

MS. TOSTI: Yes.

MS. CARULAS: Okay. Go ahead.

A. Penny Taylor case was a lady that I had
operated on, put in a mitral valve. Some time later
the valve clotted off. Another surgeon operated on

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her but she arrested and had a neurologic injury.

Q. How was that case resolved?

THE WITNESS: I'm not sure I know the terminology.

A. I mean, what do you mean how was it resolved?

MS. CARULAS: If you --

Q. Was it settled? Did it go to trial? Was there a defense verdict, a plaintiff's verdict or was it dismissed without any judgment or settlement in either side's favor?

A. I don't know if it went to trial or not but it was -- it was settled and an agreement given in favor of the plaintiff.

Q. Okay. Do you recall the plaintiff's attorney's name in that case?

A. No.

Q. What about the other cases that were filed against you? Do you recall the allegations of negligence of any of the ones that were filed in the Cleveland area?

A. Yeah. The name of that was Broadwater.

Q. That was the plaintiff's name?

A. Yes.

Q. Okay. When was that case filed?

-C. Saunders, M.D. - direct - Ms. Tosti-

1 A. Couple of years ago.

2 Q. And what was the allegation of
3 negligence in that case?

4 MS. CARULAS: I just want to note if any
5 of these cases are ongoing cases I don't think it's
6 appropriate for you to testify about them in this
7 case. Simply say they're ongoing. I don't know if
8 any of them are but if there are note that.

9 A. This is an ongoing case.

10 Q. Okay. Any of the cases that were filed
11 against you in Cleveland, are there any that have
12 been resolved?

13 A. I believe these are the only two. This
14 one and that one.

15 Q. There's no other cases that were filed
16 against you other than this one and the Broadwater
17 case in the Cleveland area?

18 A. These are the only ones I'm dealing with

19 Q. Okay. I understand that those two are
20 ongoing but any that have been resolved in which they
21 were either settled, went to trial and there was a
22 verdict or dismissed?

22 A. Not that I recall at this time.

24 Q. Now, Doctor, what states are you
25 currently licensed in?

-C. Saunders, M.D. - direct - Ms. Tosti-

1 A. New Jersey and Ohio.

2 Q. And at the time that you rendered care
3 to Charlotte Smith you were licensed in Ohio?

4 A. Correct.

5 MS. CARULAS: Just for the record,
6 Herbert.

7 MS. TOSTI: I'm sorry.

8 Q. Charlotte Herbert.

9 Has your license to practice in any
10 state ever been subject to a proceeding by the state
11 Medical Board?

12 A. No.

13 Q. Have you ever acted as an expert in a
14 medical/legal proceeding?

15 A. No.

16 Q. Have you ever given testimony in any
17 case of a similar subject matter to this case --

18 A. No.

19 Q. -- and -- let me finish my question --
20 and involving issues of post-operative wound
21 infection?

22 A. No.

23 Q. Now, Doctor, you are Board certified.
24 Is that correct?

25 A. Yes.

-C. Saunders, M.D. - direct - Ms. Tosti-

1 Q. Okay. What areas are you Board
2 certified in?

3 A. Thoracic surgery.

4 Q. Is there a subspecialty Board in
5 cardiovascular surgery available?

6 A. No.

7 Q. When did you receive your certification
8 in thoracic surgery?

9 A. It's on my CV.

10 Q. I'm not --

11 MS. CARULAS: Page 3.

12 THE WITNESS: Should be, anyway.

13 MS. CARULAS: No. 1981 and recertified --

14 THE WITNESS: Yeah.

15 MS. CARULAS: '89.

16 MS. TOSTI: I'm not --

17 MS. CARULAS: Page 3. If you look at
18 Page 3 and look down under Certifications it's one,
19 two, three, four -- fifth line.

20 MS. TOSTI: Oh, okay. I'm sorry.

21 Q. Now, in August of 1995 what position did
22 you hold with the Cleveland Clinic?

23 A. I was a staff surgeon at the Cleveland
24 Clinic and was also in charge of the affiliate
25 programs which included Elyria.

-C. Saunders, M.D. - direct - Ms. Tosti-

1 Q. And in regard to your position as head
2 of the affiliate program what duties and
3 responsibilities did you have?

4 A. Was both administrative and clinical.

5 Q. How many hours a week did you spend on
6 the administrative aspect of your position?

7 MS. CARULAS: Just note my objection.

8 If you know.

9 A. I don't know.

10 Q. Approximately, Doctor?

11 MS. CARULAS: Just note my objection.

12 No guess. If you have...

13 A. I have no idea.

14 Q. Was half of your time or more than half --

15 A. No.

16 Q. -- spent --

17 A. The vast majority of my time was clinical.

18 Q. Please let me furnish my question
19 because she's going to have a problem if we both talk
20 at the same time.

21 My question is trying to get at whether
22 you had more of an administrative job or more of a
23 clinical job. And so the greater amount of your time
24 was devoted to your clinical responsibilities?

25 A. Yes.

-C. Saunders, M.D. - direct - Ms. Tosti-

1 Q. When did you leave Ohio?

2 A. In June of '98.

3 Q. And what was the reason that you left
4 your practice in Ohio?

5 A. To assume the Chairmanship of the St.
6 Barnabas cardiac surgery program.

7 Q. Have your hospital privileges ever been
8 called into question, suspended or revoked?

9 A. Never.

10 Q. Now, Doctor, you've provided me with a
11 copy of your curriculum vitae and there are a number
12 of publications that are listed on the curriculum
13 vitae.

14 Do any of these publications deal with
15 the subject matter of post-operative infections?

16 A. No.

17 Q. Any deal with the subject matter of
18 mediastinitis?

19 A. No.

20 Q. Any with the subject matter of
21 endocarditis?

22 A. No.

23 Q. The presentations that you have listed
24 are any that are listed on this curriculum vitae, do
25 any of those deal with those subjects?

-C. Saunders, M.D. - direct - Ms. Tosti-

1 A. No.

2 Q. Okay. The curriculum vitae that we hav
3 marked as Plaintiff's Exhibit 1 is it current and
4 up-to-date?

5 A. It's probably a few months behind.

6 Q. Are there any additions or corrections
7 that you'd like to make?

8 A. No.

9 Q. What have you reviewed for this
10 deposition?

11 A. I've reviewed some of the medical
12 records that were provided to me by my lawyer.

13 Q. Okay. Could you tell me what portions
14 of the records that you've reviewed?

15 A. Summaries that the -- the emergency roo
16 visit and the hospitalization in Elyria.

17 Q. Have you reviewed any of the Cleveland
18 Clinic records from Cleveland Clinic proper?

19 A. No.

20 Q. Have you referred to any textbooks or
21 articles in preparation for this deposition?

22 A. No.

23 Q. What about the death certificate or
24 autopsy?

25 A. What about it?

-C. Saunders, M.D. - direct - Ms. Tosti-

1 Q. Have you reviewed it in preparation for
2 this deposition?

3 A. No.

4 Q. Have you since the filing of this case
5 reviewed any of the actual echocardiograms done on
6 Charlotte Herbert?

7 A. No.

8 Q. Have you reviewed any deposition
9 testimony?

10 A. No.

11 Q. And since the filing of this case have
12 you discussed this case with any physicians?

13 A. No.

14 Q. Other than with counsel have you
15 discussed this case with anyone else?

16 A. No.

17 Q. Do you have any personal notes or
18 personal file on this case?

19 A. No.

20 Q. Have you ever generated such notes or
21 kept a file on this case?

22 A. No.

23 Q. Is there a textbook in your field of
24 practice that you consider to be the best or the most
25 reliable?

-C. Saunders, M.D. - direct - **Ms.** Tosti-

1 MS. CARULAS: Note my objection.

2 A. No.

3 Q. Are there any publications that you
4 believe have particular relevance to the issues in
5 this case?

6 A. No.

7 MS. CARULAS: Objection.

8 Q. Have you participated in any research
9 dealing with the subjects of mediastinitis or
10 endocarditis?

11 A. No.

12 Q. What is post-cardiac surgery
13 mediastinitis?

14 A. It's an infection in the mediastinum
15 after cardiac surgery.

16 Q. Is there a difference between
17 post-cardiac surgery mediastinitis and post-cardiac
18 surgery sternal wound infection?

19 A. I suppose it's a matter of degrees, yes.

20 Q. How do you differentiate between the
21 two?

22 A. Well, any wound infection will run a
23 whole spectrum from superficial to deep.

24 Q. Does a sternal wound infection after
25 cardiac surgery place a patient at risk for

-C. Saunders, M.D. - direct - Ms. Tosti-

1 mediastinitis?

2 MS. CARULAS: Just note my objection.

3 Go ahead.

4 A. Not necessarily.

5 Q. Is it a risk factor for mediastinitis?

6 MS. CARULAS: Just note my objection.

7 Go ahead.

8 A. It could be.

9 Q. Now, Doctor, for the balance of this
10 deposition when I refer to mediastinitis I'm
11 referring to the type that occurs after cardiac
12 surgery, and I realize that mediastinitis can occur
13 in other instances but for the basis of this
14 deposition it's someone that develops mediastinitis
15 after cardiac surgery.

16 What is the mediastinitis infection rate
17 after elective bypass surgery?

18 A. Probably less than 1 percent.

19 Q. And in August of 1995 what was the
20 mediastinitis rate for elective bypass surgery at
21 Elyria Memorial Hospital?

22 A. I don't know.

23 Q. Do you know whether it was consistent
24 with the usual expected rate?

25 MS. CARULAS: Objection.

-C. Saunders, M.D. - direct - Ms. Tosti-

A. I believe it was.

Q. How often in your current practice do you see patients with post-cardiac surgery sternal wound infections?

A. Again, sternal wound infections can run the gamut from very superficial, insignificant to deep mediastinitis, and if you -- if you include all of those in that it's still a very small portion. Probably in the range of two or three certainly.

10 Might say less than 5 percent of the patients.

Q. Now, in your current practice do you do
12 revascularizations using bilateral mammary arteries?

A. Yes.

14 Q. And approximately how many in the last
15 year have you done that?

16 A. With bilateral mammaries?

Q. Yes.

18 A. I don't know. It would be a guess but
19 maybe 30 or 40.

20 Q. And approximately how many of those were
21 on diabetics?

22 A. Probably none.

23 Q. Okay. Is there a reason why none of
24 those were diabetic?

25 MS. CARULAS: Just note my objection.

-C. Saunders, M.D. - direct - Ms. Tosti-

1 Go ahead.

2 A. Sternal wound infections are known to
3 increase with bilateral mammaries and harvesting in
4 insulin-dependent diabetics.

5 Q. What about noninsulin-dependent
6 diabetics?

7 A. Well, it's less clear in those patients.

8 Q. Would you agree that a sternal wound
9 infection in a diabetic patient that has had
10 bilateral mammary arteries used in revascularization
11 should be treated aggressively to decrease the risk
12 of infection spread?

13 MS. CARULAS: Note my objection.

14 A. Could you repeat the question?

15 MS. TOSTI: Would you read my question
16 back.

17 (Last question read back by the
18 reporter.)

19 A. Sternal wound infection should be
20 treated whether they're diabetic or not. You know,
21 depending upon the clinical setting that they present
22 in.

23 Q. Would you agree they should be treated
24 aggressively meaning opening the wound, debriding
25 them, looking for deep infection?

-C. Saunders, M.D. - direct - Ms. Tosti-

1 MS. CARULAS: Objection.

2 A. No, I wouldn't say that that should be
3 done all the time at all.

4 Q. And my question I was referring to a
5 diabetic that had bilateral mammary arteries. You
6 don't believe that that should be done all the time?

7 MS. CARULAS: Same objection. Go
8 ahead.

9 A. No. There's an entire spectrum of
10 presentation and of -- and of degree and if you would
11 be opening all these and treating them aggressively
12 you'd be doing a great disservice to the patients.
13 Not every patient warrants that,

14 Q. Doctor, prior to Charlotte Herbert had
15 you personally diagnosed any patients with
16 post-cardiac surgery mediastinitis?

17 A. Yes.

18 Q. Is that something that you saw -- I
19 don't want to say regularly in your practice but it
20 wasn't something that was unusual?

21 A. I've 20 years experience of doing
22 cardiac surgery and this is a known complication and
23 it occurs.

24 Q. What would be the signs of post-cardiac
25 surgery sternal wound infection?

-C. Saunders, M.D. - direct - Ms. Tosti-

1 A. Redness, erythema, drainage from the
2 incision, fevers and chills.

3 Q. What would be early signs of
4 post-cardiac surgery mediastinitis?

5 A. Early signs can be very general. Could
6 be like anything -- any infection like anything
7 bothering them. It could be just a sense of feeling
8 poorly. It could be a low grade temperature. It can
9 be very, very nonspecific. Again, these things run
10 the entire spectrum.

11 Q. Okay. And besides the general symptoms
12 what are the next set of symptoms that you may see?

13 A. I'm not sure I follow where we go from
14 one to the next here.

15 Q. I'm trying to discern what the signs and
16 symptoms of post-cardiac surgery mediastinitis would
 be.

18 You said initially early symptoms might
19 be just a general feeling of not -- of feeling
20 poorly. Beyond that what other symptoms may you see
21 in that type of mediastinitis?

22 A. Well, again, they may run an entire
23 spectrum from very minimal symptoms to instability o
24 the sternum and drainage from the incision.

25 Q. Would you see chest pain with it?

-C. Saunders, M.D. - direct - Ms. Tosti-

1 A. You may.

2 Q. Is that a common sign?

3 A. It certainly can occur.

4 Q. You see bacteremia with it?

5 A. **Not** necessarily.

6 Q. In some instances do you see bacteremia
7 with mediastinitis?

8 A. They can be combined.

9 Q. Leucocytosis?

10 A. That could be one of the signs.

11 Q. Pleural effusion?

12 A. That could be one of the signs.

13 Q. Fever?

14 A. That could be another sign.

15 Q. Tachycardia?

16 A. That could be.

17 Q. Now, Doctor, you mentioned sternal
18 instability. Would you agree that sternal
19 instability is a late finding when the infection is
20 well-advanced in mediastinitis?

21 A. Well, you can have mediastinitis without
22 sternal instability.

23 Q. I'm asking you specifically about
24 sternal instability and as to whether that is a late
25 finding when the mediastinitis is well-advanced?

-C. Saunders, M.D. - direct - Ms. Tosti-

1 A. It could be early, it could be late. It
2 runs a spectrum. Never presents the same way each
3 time.

4 Q. Is sternal instability present in most
5 cases of post-cardiac surgery mediastinitis?

6 A. I don't know if I can accurately answer
7 that.

8 Q. In your practice in the times that
9 you've seen post-cardiac surgery mediastinitis do
10 most of those cases have sternal instability?

11 A. A lot do but I'm not sure that most do.
12 It certainly is possible to have mediastinitis with a
13 perfectly stable sternum. Again, there's an entire
14 spectrum of presentation.

15 Q. What causes the sternum to become
16 unstable in mediastinitis?

17 A. Well, what causes the sternum to become
18 unstable in any situation is a loosening of the
19 wires, a breaking of the wires or a giving away of
20 the tissue.

21 Q. And in post-cardiac surgery
22 mediastinitis why does that occur in some instances?

23 A. Again, that can be a multi-factorial
24 thing. Some people cough a lot and cough the
25 incision loose. Some situations there's infection in

-C. Saunders, M.D. - direct - Ms. Tosti-

1 the tissue and the tissue gives -- gets loose.

2 Q. Can osteomyelitis of the sternum cause
3 the sternum to become unstable in patients with
4 mediastinitis?

5 A. That would be one example of the tissue
6 giving way.

7 Q. Doctor, if you need to answer your pager --

8 A. I do.

9 Q. -- feel free to do so.

10 THE WITNESS: I have to find another
11 phone here.

12 (Pause.)

13 MS. TOSTI: We all set?

14 THE WITNESS: (Indicates.)

15 Q. How long after cardiac surgery does
16 mediastinitis usually present if a patient's going to
17 develop mediastinitis?

18 A. I think it's unusual to see it while
19 they're still in the hospital and usually it occurs
20 after they've been discharged home in the first few
21 weeks after surgery.

22 Q. Would you agree that mediastinitis due
23 to gram positive organisms usually present somewhat
24 later than infection caused by gram negative
25 organisms?

-C. Saunders, M.D. - direct - Ms. Tosti-

1 A. You know, I'm not sure that I know that
2 that's a fact.

3 Q. How is mediastinitis diagnosed?

4 A. Well, it depends upon its presentation.

5 Q. Well, Doctor, I'd like for you to tell
6 me what methods can be used in what situations to
7 diagnose mediastinitis and you can qualify that any
8 way you choose to.

9 A. Well, mediastinitis by definition is
10 infection of the mediastinal structures. It's a deep
11 wound infection so you have to find some way to make
12 the diagnosis that the infection is indeed even below
13 the sternum. That is done by CT scan. Sometimes
14 echoes help tell whether there's fluid around the
15 heart. It's sometimes done by probing the wound and
16 exploring the wound and seeing how deep it goes.

17 Q. You do a physical exam of the patient?

18 A. Yes.

19 Q. Is that helpful?

20 A. (Witness indicates.)

21 Q. Are blood cultures helpful?

22 A. Blood culture would tell you whether or
23 not there was a blood-borne infection but it would
24 not be a diagnosis of mediastinitis.

25 Q. Is needle aspiration helpful?

-C. Saunders, M.D. - direct - Ms. Tosti-

1 A. It could be.

2 Q. Have you ever utilized mediastinal
3 needle aspiration to assist in the diagnosis of
4 mediastinitis?

5 A. I don't believe I ever have.

6 a. To your knowledge is mediastinal needle
7 aspiration used by other cardiothoracic surgeons in
8 diagnosing post-cardiac surgery mediastinitis?

9 MS. CARULAS: Objection.

10 A. I really can't comment on what other
11 cardiac surgeons do and I'm not aware of any
12 literature on needle aspiration.

13 Q. What factors could increase the risk for
14 developing mediastinitis after cardiothoracic
15 surgery?

16 A. What factors would increase the risk.
17 The patient's preoperative status, nutrition,
18 hygiene, presence or absence of any infections,
19 presence of co-morbidities such as diabetes or other
20 immune deficiencies, the surgical procedure itself,
21 the post-operative care and the home care.

22 Q. The complexity of the surgery, is that a
23 factor in regard to the risk for developing
24 mediastinitis?

25 A. It could be.

-C. Saunders, M.D. - direct - Ms. Tosti-

1 Q. Use of mammary arteries?

2 A. Media -- mediastinitis can occur without
3 the use of mammary arteries but we've already talked
4 about the increase of incidence in diabetics with
5 bilateral mammaries.

6 Q. Doctor, do post-operative wound
7 infections occur more frequently in bypass patients
8 that are diabetic as compared to nondiabetic
9 patients?

10 A. I think wounds occur more frequently in
11 diabetics, period.

12 Q. Okay. My question is in regard to wound
13 infections after bypass surgery.

14 A. Diabetes is an increased risk for wound
15 infections. Insulin diabetics.

16 Q. What about --

17 A. I can't comment on -- I'm not sure it's
18 so clear with noninsulin or borderline diabetics.
19 Again, we get into the spectrum of presentation.

20 Q. What are the complications associated
21 with post-cardiac surgery mediastinitis?

22 MS. CARULAS: Just note my objection.
23 I'm not sure I understand the question but go ahead
24 if you...

25 A. Well, complications can be again an

-C. Saunders, M.D. - direct - Ms. Tosti-

1 entire spectrum from sternal instability to prolonge
2 hospitalization on antibiotics that are treated
3 medically to full-blown endocarditis like this
4 patient had so just about anything is possible.

5 Q. Would it be fair to say that one of the
6 complications --

7 MS. TOSTI: Bev, are you having a
8 problem hearing because this gadget is making a
9 whistling sound?

10 MS. HARRIS: I'm doing okay but you'll
11 hear me if I can't, okay?

12 MS. TOSTI: All right.

13 Q. Doctor, would it be fair to say that on
14 of the complications associated with this type of
15 post-operative mediastinitis would be extension of
16 infection into contiguous structures?

17 A. That could be.

18 Q. Sternal osteomyelitis, is that also a
19 complication of this type of mediastinitis?

20 A. That could be.

21 Q. Sepsis?

22 A. That could be.

23 Q. And you've mentioned the endocarditis.
24 That also can be a complication?

25 A. If you have blood-borne, that could be.

-C. Saunders, M.D. - direct - Ms. Tosti-

Q. Would you agree that when a diabetic patient that has had both mammary arteries used for revascularization surgery presents a couple weeks after surgery with fever, severe incisional pain, elevated white blood count, that there should be a high index of suspicion for mediastinitis?

MS. CARULAS: Objection.

A. Mediastinitis **is** in the differential diagnosis for all patients that you see afterwards that are having problems or complications.

Q. Would you agree in the patient that I just described, though, there should be a high suspicion or a high index of suspicion for mediastinitis because the mediastinitis can lead to such catastrophic complications?

MS. CARULAS: Note my objection.

A. I don't think your index of suspicion is affected by the possible outcomes of that. Your index of suspicion is simply that. It's not based on what can possibly happen.

Q. Would you agree that with this type of post-operative mediastinitis the longer it goes untreated, the less likely treatment will be successful?

MS. CARULAS: Objection.

-C. Saunders, M.D. - direct - Ms. Tosti-

1 A. Not necessarily. Again, there's a whol
2 spectrum of presentation and -- and response to
3 treatments that occurs in mediastinitis.

4 Q. I want to be sure that I'm understandin
5 what you're saying.

6 You don't believe that the longer it
7 takes to treat mediastinitis the less likely there's
8 going to be successful treatment? And correct me if
9 I'm misunderstanding what you're saying.

10 A. Yeah. I think I'm very concerned that
11 you're putting words into my mouth here right now --

12 Q. I want to make sure that I understand
13 what you're saying --

14 A. Okay.

15 Q. -- and so please explain if I've
16 misinterpreted what you've said.

17 A. Why don't you repeat the question
18 again?

19 Q. Okay. The longer mediastinitis goes
20 untreated the less likely treatment will be
21 successful. Do you agree with that statement?

22 MS. CARULAS: Objection.

23 A. I think that that is a possibility but
24 it's not necessarily universally true. It depends
25 upon the organism, it depends upon the degree of

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1 mediastinitis. It depends upon an entire variety of
2 variable factors.

3 Q. Would you agree that the longer
4 mediastinitis goes untreated the more likely
5 complications will occur?

6 MS. CARULAS: Objection.

7 A. I'm sorry. Haven't I answered this
8 question?

9 Q. I don't believe *so*, Doctor.

10 A. Would you restate it then?

11 MS. TOSTI: Would you repeat my
12 question.

13 (Previous question read back by the
14 reporter.)

15 MS. CARULAS: Objection. That has been
16 asked and answered.

17 A. Would you rephrase that? I can't answer
18 it any better than I already have unless there's
19 something...

20 Q. Doctor, is there a statistical
21 relationship between the length of time that
22 mediastinitis goes untreated and a direct
23 relationship with the seriousness and numbers of
24 complications that occur?

25 MS. CARULAS: Objection.

-C. Saunders, M.D. - direct - Ms. Tosti-

1 A. I'm sorry. I find it very hard to
2 follow your -- your thought here and there's an
3 entire spectrum and it depends upon the presentation,
4 it depends upon the organism, it depends upon the
5 degree of involvement. I can't answer the question
6 any better than I already have.

7 Q. Does the mortality associated with
8 mediastinitis increase as the length of time it takes
9 to initiate treatment increases?

10 MS. CARULAS: Objection. Same question
11 phrased slightly different.

12 A. I can't answer it any different than
13 what I already have.

14 Q. Doctor, what is the mortality rate for
15 cardiac surgery patients diagnosed and treated for
16 mediastinitis within a month of their cardiac
17 surgery?

18 A. Again, it depends on the degree of
19 mediastinitis but, you know, I wouldn't -- I would
20 hesitate to give you an answer without referring to
21 the literature.

22 Q. Okay. I'm speaking overall for all
23 cases of post-cardiac surgery mediastinitis. Are you
24 able to tell me what the mortality rate is for
25 patients that are diagnosed and treated?

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1 MS. CARULAS: Just note my objection.

2 Don't guess. If you have an answer to the question -

3 A. I don't have that number off the top of
4 my head.

5 Q. Would you agree that the administration
6 of antibiotics is an essential component of therapy
7 for post-cardiac surgery mediastinitis?

8 A. Yes.

9 Q. Would you agree that the longer the
10 treatment of mediastinitis is delayed the greater the
11 chance that infection will spread to other parts of
12 the body?

13 MS. CARULAS: Objection. Asked and
14 answered. Go ahead.

15 A. It's the same question and I'm going to
16 give you the same answer.

17 Q. Would you repeat your answer to the
18 question then?

19 A. Repeat your question.

20 MS. TOSTI: Would you please reread my
21 question?

22 (Previous question read back by the
23 reporter.)

24 THE WITNESS: Can I ask you to read my
25 answer to her?

-C. Saunders, M.D. - direct - Ms. Tosti-

A. It depends upon the organism. It depends upon the degree and it depends upon the presentation. It depends upon the patient, the co-morbidities, the immune factors. It depends upon a variety of situations. I cannot sit here and say definitely that, yes, this is right or that is wrong and I will not.

Q. Doctor, if --

MS. TOSTI: Bev, we're getting a whistling. I don't know if you can hear it on your end.

MS. CARULAS: We'll just have to live with it I think.

MS. TOSTI: Is she still there, though? Bev, are you still there?

MS. CARULAS: Hello?

(Pause.)

BY MS. TOSTI:

Q. If mediastinitis is suspected is antibiotic therapy covering the most common pathogens usually started immediately after blood cultures?

A. If I suspected it, yes.

Q. And then once the blood cultures are done and a specific infecting organism is identified then the antibiotic therapy is tailored to that

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1 specific type of infection, correct?

2 A. Yes.

3 Q. Doctor, if a patient has mediastinitis
4 following cardiac surgery should that patient be
5 hospitalized for treatment?

6 A. It depends upon the severity.

7 Q. Okay. Are there some instances --

8 A. It depends on what you mean when you're
9 defining mediastinitis.

10 Q. Well, give me your definition of
11 mediastinitis.

12 A. Mediastinitis can run a spectrum of
13 disease from very mild to very severe and I have
14 certainly treated patients with deep wound infection
15 at home with dressing changes.

16 Q. So in some instances patients with
17 post-cardiac surgery mediastinitis will not require
18 hospitalizations and can be treated at home?

19 A. Post-operative wound infections run an
20 entire spectrum.

21 Q. And I'm just asking you if there's some
22 instances that they don't require hospitalization an
23 they can be managed at home?

24 A. It -- it's very logical that at some
25 point in the management of these patients with

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1 mediastinitis very early before the entire course of
2 it has been defined or afterwards, after the course
3 has been contained that home care can be done for
4 them, yes.

5 Q. Okay. How about initially when they ar
6 first diagnosed with mediastinitis? Are there some
7 groups of patients with post-cardiac surgery
8 mediastinitis that will not require hospitalization
9 for their initial treatment?

10 A. Well, it depends upon the presentation
11 and you don't know when these patients present what
12 the extent of it is and you have to sometimes wait
13 for things to declare themselves.

14 Q. In a patient that's been diagnosed with
15 mediastinitis are there some patients that can be
16 cared for at home without having to hospitalize them

17 A. Well, I would -- I assume that there
18 could be but this is such a rhetorical question that
19 I find it very difficult to give any -- you're askin
20 a vague question and want a concrete answer from me.

21 Q. All right.

22 A. I find this line of questioning very
23 difficult.

24 Q. Okay, Doctor. Let's take your
25 practice.

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1 Have you had patients that have
2 developed post-cardiac surgery mediastinitis that you
3 have cared for at home that did not require
4 hospitalization for initial treatment?

5 A. I'm sorry. I'm very uncomfortable here
6 because we're talking in such vague -- I mean, I can
7 be so misunderstood by any answer that I give here
8 with this line of questioning that I --

9 MS. TOSTI: I **would** prefer that you not
10 motion to him as to any type of an answer.

11 Q. And I would prefer that you give your
12 answer to me directly.

13 A. I'm giving my answer to you.

14 Q. Okay. Now, please explain your answer
15 any way that you feel comfortable with, Doctor.

16 A. I feel comfortable by saying that
17 post-operative coronary artery mediastinitis can
18 present in a spectrum of presentation depending upon
19 as we've said before the organism, the extent, the
20 stage at which it is in development; that depending
21 upon when it is seen at the time that it is seen and
22 the way that it is presented that there is different
23 ways that it can be treated successfully. That may
24 include local drainage procedures, I&Ds, it may
25 include antibiotics, it may include observation, it

-C. Saunders, M.D. - direct - Ms. Tosti-

1 may include hospitalization and IV antibiotics and it
2 may ultimately include debridement of the wound.

3 Q. I'm going to ask my question again,
4 Doctor.

5 In your practice have you had patients
6 that you have diagnosed with mediastinitis that have
7 not required hospitalization and that you have
8 treated at home?

9 A. I have --

10 Q. And I'm speaking --

11 A. -- answered --

12 Q. -- of the post-cardiac mediastinitis.

13 A. And I have answered that question to the
14 best of my ability and can give no other answer than
15 what I have.

16 Q. I'm asking you for a yes or no.

17 Have you had patients that you have
18 diagnosed with post-cardiac surgery mediastinitis
19 that you have not hospitalized and have treated them
20 at home? And I would ask that you either answer that
21 yes or no and give whatever explanation you like.

22 MS. CARULAS: Just note my objection.
23 He does not have to answer it either yes or no. I
24 think he's answered --

25 MS. TOSTI: I don't think he has

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1 answered the question.

2 A. I don't think that there's any rule in
3 the deposition that says that I must answer yes or n
4 and I believe that I have fully explained the
5 treatment of mediastinitis to you.

6 Q. Doctor, I'm asking in your practice
7 whether you have had any patients that you have
8 treated at home for post-cardiac surgery
9 mediastinitis and have not hospitalized them?

10 A. I answered that.

11 Q. You haven't answered it. Have you had
12 any?

13 THE WITNESS: Would you read my answer
14 back?

15 Q. I'm asking have you had any patients?
16 To me that's a yes or a no. Yes, I have. No, I hav
not.

18 A. I said yes in that answer.

19 Q. Okay.

20 A. That in the spectrum of these --

21 Q. Is your answer --

22 A. Excuse me.

23 Q. Is your answer yes?

24 A. In that spectrum patients are treated
25 depending upon their presentation, depending upon the

-C. Saunders, M.D. - direct - Ms. Tosti-

1 degree and some of that treatment has occurred at
2 home both pre- and post-hospitalization.

3 Q. And you did not --

4 A. Yes.

5 Q. -- listen to my question, Doctor,
6 because my question was once the diagnosis was made
7 have *you* treated the patient at home and they have
8 not required hospitalization?

9 A. I'm sorry. I cannot give you a better
10 answer than what I already have.

11 Q. Doctor, what is bacteremia?

12 A. Bacteremia is bacteria in the
13 bloodstream.

14 Q. Is it seen frequently with
15 mediastinitis?

16 A. It may be.

17 Q. Is it seen in most cases?

18 A. It depends upon the degree of
19 mediastinitis. It certainly can be one thing. All
20 mediastinitis does not have bacteremia.

21 Q. In the majority of cases of
22 mediastinitis do you see bacteremia?

23 MS. CARULAS: Objection.

24 A. I can't answer that question now. I
25 don't know the answer to that question now.

-C. Saunders, M.D. - direct - Ms. Tosti-

1 Q. If a patient has bacteremia which you
2 said is bacteria in the blood the bacteria can attach
3 to other organs, colonize and form a new site of
4 infection, correct?

5 A. Yes.

6 Q. What does the term "sepsis" mean?

7 A. Means infection from the bacteria in the
8 bloodstream.

9 Q. What is acute bacterial endocarditis?

10 A. It's an infection of the endocardium of
11 the heart. Did you say bacterial?

12 Q. Yes.

13 A. In that case it's by bacteria and it
14 most frequently involves the valves.

15 Q. **And** if a post-cardiac surgery patient
16 develops bacteremia can that cause acute bacterial
17 endocarditis to develop?

18 A. I've only seen it once in my lifetime.

19 Q. And was that one time in this case with
20 Charlotte Herbert?

21 A. Yes.

22 Q. Other than Charlotte Herbert have you
23 seen any other patients who have developed acute
24 bacterial endocarditis after having bypass surgery?

25 A. I'm sure that I must have.

-C. Saunders, M.D. - direct - Ms. Tosti-

1 Q. Would you agree that mediastinitis after
2 bypass surgery would increase the risk for developing
3 acute bacterial endocarditis -- or let me rephrase
4 that -- would be a risk factor for developing acute
5 bacterial endocarditis?

6 A. Would mediastinitis be a risk factor for
7 endocarditis? Is that the question?

8 Q. Yes. After bypass?

9 A. It could be one of them I suppose.

10 Q. Would you agree that if a bypass patient
11 develops mediastinitis that the infection should be
12 treated promptly to decrease the risk of the
13 infection spreading?

14 A. Yes.

15 Q. And would you agree that the sooner
16 acute bacterial endocarditis is treated with
17 antibiotics the more likely treatment will be
18 successful?

19 MS. CARULAS: Objection.

20 A. We've answered that question.

21 Q. This is in regard to acute bacterial
22 endocarditis, Doctor, not mediastinitis, and I don't
23 believe I've asked that question before.

24 A. That's my mistake.

25 MS. CARULAS: Objection.

-C. Saunders, M.D. - direct - Ms. Tosti-

1 A. Ask the question again.

2 Q. The sooner acute bacterial endocarditis
3 is treated with antibiotics the more likely the
4 treatment will be successful?

5 MS. CARULAS: Objection.

6 A. Again, that would depend upon the
7 virility of the organism, the status of the patient,
8 the antibiotics used. And I refer again to the whol
9 spectrum of treatment.

10 Q. I want to make sure I understand your
11 answer here.

12 My question was in regard to the
13 treatment of bacterial endocarditis with antibiotics
14 so what I'm asking you is the time delay between the
15 time that the patient has acute bacterial
16 endocarditis and the initiation of antibiotics. You
17 don't think that that time period makes a difference
18 as to whether or not the treatment will be
19 successful?

20 A. That may be a factor. I'm saying that
21 there are a lot of other factors involved also.

22 Q. That's one factor, though?

23 A. It may be a factor.

24 Q. How is acute bacterial endocarditis
25 diagnosed?

-C. Saunders, M.D. - direct - Ms. Tosti-

1 A. Bacterial endocarditis can be diagnosed
2 by an index of suspicion with fevers and chills, with
3 splinter hemorrhages, from emboli, from sometimes
4 even bleeding. The objective evidence of it is
5 usually an echocardiogram that shows an infected or
6 vegetations on the valve.

7 Q. Do you use blood cultures in the
8 diagnosis of acute bacterial endocarditis?

9 A. Yes.

10 Q. Is the presence or absence of a murmur
11 of any significance in the diagnosis of acute
12 bacterial endocarditis?

13 A. It may be or it may not be.

14 Q. If it's a new murmur is that something
15 that's significant?

16 A. A new onset murmur would be a concern.

17 Q. What are the complications associated
18 with acute bacterial endocarditis?

19 A. It can run a spectrum from very minimal
20 complications to severe life-threatening
21 complications.

22 Q. And what would those be?

23 A. Congestive heart failure, renal
24 insufficiency, pulmonary edema, septic emboli.

25 Q. Would you agree that the leading cause

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1 of acute bacterial endocarditis is Staph aureus?

2 A. You know, that depends upon the patient
3 populations you're talking about but staph is a very
4 common organism -- organism in endocarditis.

5 Q. Well, we're talking about post-cardiac
6 surgery patients.

7 A. Well, that's a common organism.

8 Q. Is Staph aureus also a common cause of
9 post-cardiac surgery mediastinitis?

10 A. It's a common organism that causes
11 mediastinitis, yes.

12 Q. And how is bacterial endocarditis
13 treated?

14 A. Recognized cases of endocarditis are
15 treated with appropriate antibiotics depending upon
16 the blood cultures and the sensitivities of the
17 organism and if that's not successful surgery is
18 oftentimes used.

19 Q. And in regard to surgery are you talking
20 about valve replacement?

21 A. Valve replacement. Repair is less
22 common in endocarditis. It depends upon -- on what --
23 where along the spectrum of the disease that you're
24 treating the patient, whether you've been able to
25 heal the endocarditis with antibiotics, whether it's

-C. Saunders, M.D. - direct - Ms. Tosti-

1 an active infection so there's no -- there's no one
2 answer for it.

3 Q. Under what circumstances would surgical
4 valve replacement be required in a patient that has
5 had bacterial endocarditis? What would be the
6 deciding factors that would cause the decision to be
7 made to replace the valve?

8 A. Well, if the valve was -- was failing
9 functionally, if there was a vegetation that was at a
10 high risk for embolizing or even if the valve had
11 been treated and the endocarditis was resolved but it
12 was left with a deformed valve and it was causing
13 problems, these would be some of the indications for
14 surgery.

15 Q. Do you have an independent recollection
16 of Charlotte Herbert as you sit here today? Aside
17 from what you've read in the medical records in your
18 review --

19 A. I remember --

20 Q. -- do you recall her?

21 A. I remember her, sure, .

22 Q. Now, in August of 1995 did you have any
23 type of a professional association with Dr. Mikhail?
24 Was he a member of the Cleveland Clinic staff?

25 A. He was.

-C. Saunders, M.D. - direct - Ms. Tosti-

1 Q. And did he hold any clinical position or
2 title with Cleveland Clinic that was senior to yours?

3 A. No.

4 Q. How is it that Charlotte Herbert came
5 under your care?

6 A. I believe I was on call the weekend that
7 she came into the emergency room.

8 Q. And if you could just tell me how the
9 on-call system was working at that time. In other
10 words, were you on **call** for only Dr. Mikhail or were
11 you on call for several people? Were you working
12 just on the night shift?

13 A. I was on call for the cardiac surgery
14 patients.

15 Q. When you took --

16 A. For the practice.

17 Q. Okay. And how many cardiac surgeons
18 were you covering for?

19 A. Two.

20 Q. And who were they?

21 A. Dr. Saltus and Dr. Mikhail.

22 Q. And when you were taking call how long a
23 period of time were you taking call?

24 A. I don't recall.

25 Q. Generally-speaking did you do it for the

-C. Saunders, M.D. - direct - Ms. Tosti-

1 whole weekend or just on the night shift?

2 A. No, it wouldn't be just the night shift
3 and it was likely the whole weekend.

4 Q. Did you trade-off with Dr. Saltus and
5 Dr. Mikhail on weekends to take call?

6 A. Yes.

7 Q. Among the three of you?

8 A. Yes.

9 Q. Dr. Mikhail was -- I'm not sure if I'm
10 pronouncing his name correctly. Is it Mikhail?

11 A. Mikhail.

12 Q. Mikhail?

13 A. (Witness indicates.)

14 Q. Dr. Mikhail was out of town. Do you
15 know when he left to go out of town?

16 A. No, I don't.

17 Q. Prior to the time that he left did he
18 discuss Charlotte Herbert with you at any time --

19 A. No.

20 Q. -- prior to the emergency visit on
21 August 20th?

22 A. No.

23 Q. And did you consult with Dr. Mikhail at
24 any time about Charlotte Herbert on August 20th when
25 she **was** seen in the emergency room?

-C. Saunders, M.D. - direct - Ms. Tosti-

1 A. No.

2 Q. Did you consult with Dr. Mikhail at any
3 time prior to his return to town when she was in the
4 hospital?

5 A. No.

6 Q. Now, prior to August 20th which was the
7 date that she was seen in the emergency room had you
8 seen Charlotte Herbert as a patient?

9 A. I don't recall.

10 Q. And after the time that -- let me back
11 up on that.

12 Do you know whether you saw her at any
13 time prior to the time she had her bypass surgery?

14 A. Not that I'm aware of.

15 Q. Did you see her at all when she was
16 hospitalized for her bypass surgery that you recall?

17 A. It's quite likely that I did but I don't
18 recall.

19 Q. Would that be on rounds covering for Dr.
20 Mikhail?

21 A. That's a possibility.

22 Q. But you didn't at any time care for her
23 as your patient?

24 A. No.

25 Q. When she presented to the emergency room

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1 on August 20th how were you notified that she was
2 there?

3 A. I don't recall the specifics. I'm sure
4 I was paged.

5 Q. Did you speak to anyone from the
6 emergency room when you received the page? Did you
7 call them back?

8 A. Well, I assume that I did but I don't
9 recall any details of that.

10 Q. Do you recall if you talked to the
11 emergency room physician or one of the nurses?

12 A. I don't recall.

13 Q. Do you recall what you were told about
14 Charlotte Herbert?

15 A. I do not.

16 Q. Where were you when you received the
17 page?

18 A. I don't recall.

19 Q. Do you know whether you were in the
20 hospital or outside the hospital?

21 A. I don't know.

22 Q. Did you go to the emergency room to see
23 Charlotte Herbert on August 20th of '95?

24 A. Yes.

25 Q. And what was the reason that you decided

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1 to go to the emergency room to see her?

2 A. Because I was paged.

3 Q. Okay. But, Doctor, I would assume that
4 it's your decision as to whether you go there or you
5 answer a question or whatever and I'm trying to
6 understand why it was that you went to the hospital
7 to see her as opposed to speaking with someone over
8 the phone about her?

9 A. I see all of our patients that come in
10 to be seen.

11 Q. Okay.

12 A. They...

13 Q. Go ahead.

14 So if the emergency room pages you you
15 would routinely go and see the patient if one of them
16 had presented to the emergency room?

17 A. Depending upon, you know, what they
18 called about but, yes, as a general rule I would see
19 the patients.

20 Q. Do you know what time you saw Charlotte
21 Herbert in the emergency room?

22 A. It was early morning.

23 Q. Was anyone with Charlotte Herbert when
24 you saw her?

25 A. I believe she had a daughter with her.

-C. Saunders, M.D. - direct - Ms. Tosti-

1 There was someone with her.

2 Q. Did you have any conversations with that
3 person that you recall?

4 A. Yes, I did.

5 Q. Do you recall the content of any of
6 those conversations?

7 A. I don't remember the specifics of it.
8 We talked about how she was feeling, what her
9 problems were.

10 Q. Was Charlotte Herbert able to give you
11 any history?

12 A. Yes.

13 Q. Okay. What information did she give
14 you?

15 A. In generalities without me being totally
16 specific she said, you know, she was feeling poorly,
17 she hurt, she was having bad nausea and vomiting and
18 was generally feeling bad.

19 Q. Did she tell you when those symptoms
20 started?

21 A. Well, she had been -- she had been
22 complaining of nausea and vomiting earlier that night
23 or, you know, during the night and in the morning.

24 Q. Were you aware that she was diabetic?

25 A. Can I look at the record, at the -- I

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1 looked at the emergency room record and, yes, I was
2 aware that she was diabetic.

3 Q. And were you aware that she had had
4 bilateral mammary artery implantations during her
5 revascularization?

6 A. I don't know if I knew that specifically
7 at that time or not.

8 Q. Did you request to have her old chart
9 brought to the emergency room from her bypass
10 surgery?

11 A. I don't recall.

12 Q. If you requested that's something that
13 you can do is have the old chart brought to the
14 emergency room, correct?

15 A. Yes.

16 Q. Did you do a physical examination when
17 you saw Charlotte Herbert?

18 A. Yes, I did.

19 Q. And what did you find on your physical
20 examination?

21 A. I didn't find any signs of a deep
22 sternal wound infection. I wrote in my note that she
23 had a glucose of 281 but it was drawn after an IV
24 with 5 percent dextrose was started.

25 Q. Okay. Now, Doctor, you're looking at

-C. Saunders, M.D. - direct - Ms. Tosti-

1 the emergency room record and is a portion of this
2 record in your handwriting?

3 A. Yes.

4 Q. Okay. Could you tell me what portion i
5 in your handwriting? Just the areas that you've
6 recorded information.

7 A. Well, that's just what I was telling
8 you.

9 Glucose was 281 but drawn after IV with
10 5 percent dextrose was started. No sternal wound --
11 no sternal infection. White count 16,000 and
12 complains of epigastric distress. The plan was to D
13 medications, to give antacids, to follow her
14 temperature and to see her in the office or have her
15 call the office in the morning and tell me how she
16 was doing.

17 Q. And all that that you've just read is i
18 your handwriting --

19 A. That's --

20 Q. -- is that correct?

21 A. That's correct.

22 Q. Okay. Now, Doctor, Dr. Adelman's
23 emergency note indicates that she was having severe
24 pain. Is that consistent with what you found?

25 A. No.

-C. Saunders, M.D. - direct - Ms. Tosti-

1 Q. So when you saw her she wasn't having
2 severe pain, correct?

3 A. No.

4 Q. His note also says that she was having
5 pain on movement. Did you find that in your
6 examination?

7 A. I don't recall that she was having
8 severe pain when she was moving. She was very
9 dramatic about everything but she seemed to be
10 reasonably comfortable and -- and not debilitated
11 with pain.

12 Q. Okay. And he says that she was weak and
13 she was having so much pain in her chest that she
14 could not lift her head up. Did you note any problem
15 with her being able to lift her head up when you saw
16 her?

17 A. Not at all.

18 Q. I think the emergency room note says
19 that she was dizzy and nauseated. Was that
20 consistent with your findings?

21 A. Yes.

22 Q. And I believe there's a set of blood
23 gases also that are recorded in the emergency room
24 typewritten note.

25 Did you find that there was any

-C. Saunders, M.D. - direct - Ms. Tosti-

1 deviations from normal in the blood gases that are
2 recorded there? Did you have those available to you,
3 first off, when you saw her?

4 A. I don't recall.

5 Q. Okay. And looking at those blood gases
6 are there any deviations from normal for this
7 patient?

8 A. Well, this says she's slightly
9 alkalotic. The Ph is 75. PO 2 is 76.

10 Q. Are those abnormal blood gases for this
11 patient?

12 A. I wouldn't be too concerned about it.

13 Q. What was within your differential
14 diagnosis when you saw her?

15 MS. CARULAS: Note my objection to the
16 term "differential diagnosis."

17 A. The differential diagnosis in anyone
18 post-operatively --

19 Q. Well, Doctor, my question is
20 specifically for Charlotte Herbert. I want to know
21 what was within your differential diagnosis?

22 A. Then the differential diagnosis was
23 gastrointestinal problems. We looked at the incision
24 and I did not think that there was signs of a serious
25 wound infection at that point. Talked to her and her --

-C. Saunders, M.D. - direct - Ms. Tosti-
whoever was with her at the time and the main thing
she was complaining about was the epigastric
distress, the nausea and vomiting that she had. She
had had it before in the hospital. She was on
medications that could possibly cause that,
specifically the aspirin and the Darvocet, and so we
stopped those irritants, gave her some antacids and
asked to observe -- asked her to observe the clinical
course and to check her temperature.

Q. So getting back to the differential
diagnosis, you mentioned GI problems. Was there
anything else within your differential diagnosis?

MS. CARULAS: Note my objection. I
believe he's answered what his impression was at the
time.

Q. I'm going to ask you to please continue
with your answer. Other than gastrointestinal
problems was there anything else within your
differential diagnosis, Doctor?

MS. CARULAS: Objection. Go ahead.

A. I agree with my counsel. I believe I've
answered the question; that I looked at the wound, I
did not feel at that time that there was evidence of
a serious wound infection and my differential
diagnosis at that time was basically surrounding the

-C. Saunders, M.D. - direct - Ms. Tosti-

1 GI tract because of her previous history and because
2 of her presentation.

3 Q. Doctor, if you need to answer your page

4 A. No. We can keep going.

5 Q. So -- and please correct me if I've
6 misunderstood you but at the time that you saw her in
7 the emergency room you did not have sternal wound
8 infection or mediastinitis within your differential
9 diagnosis?

10 A. Oh, no. It certainly was within the
11 differential diagnosis.

12 Q. Well, Doctor, that's what I was asking
13 you. I asked you specifically and the only thing
14 I've heard you answer is GI problems so please if you
15 would elaborate on what was within your differential
16 diagnosis at the time that you saw her in the
17 emergency room.

18 A. Well, any patient that I see and
19 specifically --

20 Q. Doctor --

21 MS. CARULAS: Let him --

22 Q. -- specifically Charlotte Herbert.

23 MS. CARULAS: Let him answer the
24 question.

25 A. I was saying specifically when I was

-C. Saunders, M.D. - direct - Ms. Tosti-
1 interrupted.

2 I looked at her. I assessed her wounds
3 so wound infection was in the differential
4 diagnosis. I listened to her lungs, I listened to
5 her heart. That was in the differential diagnosis.
6 I poked on her stomach and talked to her and tried to
7 assess the GI thing so all of those things were in
8 the differential diagnosis.

9 Q. Doctor, how do you define differential
10 diagnosis? What's your definition of differential?

11 A. The realm of possibility. Given the
12 signs and symptoms what are the possibilities
13 something could be happening and within that
14 differential diagnosis you pick the most likely that
15 appears at that given point in time given the
16 patient's presentation, and I felt at that time given
17 her past history, her presentation at that point that
18 the GI was the most likely cause of her problems and
19 elected to watch for the others but to treat that at
20 the present time.

21 Q. You disagree then with what Dr. Adelman
22 has included in his emergency room note that this was
23 a probable wound infection and possible
24 mediastinitis. Is that correct?

25 A. The probable, yes, I disagree with. The

-C. Saunders, M.D. - direct - Ms. Tosti-

1 possible mediastinitis, anything is possible.

2 Q. Did she have any signs or symptoms or
3 lab results that would be consistent with
4 mediastinitis at the time that you saw her in the
5 emergency room?

6 A. I found nothing specific to mediastinitis

7 Q. My question was signs and symptoms and
8 lab results that would be consistent with
9 mediastinitis, Doctor.

10 MS. CARULAS: Objection.

11 A. In an ill patient there's a spectrum of
12 possibilities and there are labs and things that we
13 do that are general. She had white blood cell counts
14 that was elevated and she had a temperature and there
15 is a multitude of things which could cause that and
16 certainly the possibility of wound infection and
17 mediastinitis was considered at that point.

18 Q. Was she having any kind of pain in the
19 incision at the time that you saw her?

20 A. She was complaining of pain in the lower
21 portion of the incision.

22 Q. Did she have any sternal instability at
23 the time that you saw her?

24 A. I don't believe so.

25 Q. Is that something that you checked?

-C. Saunders, M.D. - direct - Ms. Tosti-

1 A. Always.

2 Q. Did Charlotte Herbert have any risk
3 factors for mediastinitis when you saw her on August
4 20th?

5 MS. CARULAS: Note my objection.

6 A. We've been through the risk factors of
7 mediastinitis and I believe I've answered that
8 question.

9 Q. Doctor, you have not answered it in
10 regard to Charlotte Herbert and I'm asking you
11 specifically on August 20th in the emergency room did
12 Charlotte Herbert have any risk factors for
13 mediastinitis?

14 A. Charlotte Herbert had open heart surgery
15 and she was a risk for having mediastinitis. She had
16 noninsulin-dependent diabetes of some degree which
17 may increase the risk for wound infections and
18 mediastinitis.

19 Q. She also had bilateral internal mammary
20 artery implants with her revascularization and that
21 would be a factor also, wouldn't it?

22 A. The -- whether or not bilateral internal
23 mammaries and noninsulin diabetes is a risk factor
24 I'm not sure of.

25 Q. Now, did you give any consideration to

-C. Saunders, M.D. - direct - Ms. Tosti-
admitting Charlotte Herbert when you saw her in the
emergency room?

A. I did.

Q. Okay. And what was the basis for your
decision not to admit her at that time?

A. I talked -- I examined her, I talked
with her and the family. I asked -- I don't remember
the specific words that were used. We talk to them -
I talked to them and I felt that this was something
that could be observed, that we wanted to keep track
of it. That's why I wanted to check with them in the
morning but it was my judgment at that time that it
was not necessarily something that she would have to
be admitted to the hospital for.

At that particular point in time, the
particular presentation that she had, my impression
was that she had some gastrointestinal process that
was causing her nausea and vomiting and the
discomfort in her epigastrium. I discussed it with
them. I suggested that we take away the medications
that could possibly be irritating that, give her some
antacids that could possibly relieve that and to
observe farther, see what the results of that
treatment would be and what the clinical course would
be.

-C. Saunders, M.D. - direct - Ms. Tosti-

1 Q. Doctor, can't mediastinitis sometimes
2 cause epigastric-type pain?

3 A. Anything's possible. In my experience,
4 however, nausea, vomiting, an epigastric pain is not
5 a presenting factor of people with wound infections
6 with mediastinitis.

7 Q. If a patient with mediastinitis has a
8 retroperitoneal extension do they have acute
9 abdominal signs and symptoms?

10 A. I've never seen a retroperitoneal
11 extension of mediastinitis.

12 Q. Now, she had a white blood cell count of
13 16,900 when she was in the emergency room, correct?

14 A. Where is that? I'd have to look at the
15 lab tests. I have 16,000 written on my --

16 Q. Okay.

17 A. -- on my note but I will spot you the 90

18 Q. Okay. Is there any reason why you chose
19 not to order blood cultures at that time knowing that
20 this patient had had recent bypass surgery? Is there
21 any reason? Is that something you considered and
22 chose not to do?

23 A. I'm not sure how I -- how to answer that
24 question except to say that given her presentation
25 and my experience and the way that the wound looked

-C. Saunders, M.D. - direct - Ms. Tosti-

1 and so forth I felt at that point in time that it
2 looked more like a gastrointestinal issue than --
3 than a full-blown sepsis and mediastinitis.

4 Q. She was febrile at the time that you saw
5 her and also had an elevated white blood cell count.

6 A. Yes.

7 a. Shouldn't that raise an index of
8 suspicion for infection?

9 A. Yes.

10 Q. Okay. In a patient that has had recent
11 bypass surgery with an index of suspicion for
12 infection wouldn't a reasonably prudent physician
13 order blood cultures for the patient?

14 MS. CARULAS: Objection.

15 A. All I can say is that I looked at this
16 patient and given the presentation at the time, you
17 know, I chose to treat her in this manner. I thought
18 it was prudent to follow this and to watch this but I
19 did not -- you know, the record's clear that I did
20 not order blood cultures. I do not order blood
21 cultures on every post-op patient that has a
22 temperature.

23 Q. And a white blood cell count over 16,000?

24 A. A white blood cell count is elevated.
25 There are other things that can do that and it's not

-C. Saunders, M.D. - direct - Ms. Tosti-

1 necessarily mediastinitis.

2 Q. What other things in Charlotte Herbert's
3 case do you think was causing her white blood cell
4 count to be that level?

5 A. Let's go back to the spectrum of
6 possibilities. Anything is possible.

7 Q. I'd like to know in this case.

8 MS. CARULAS: He's answering your
9 question, Jeanne.

10 Q. When you evaluated her --

11 A. Yes.

12 Q. -- you were aware of the clinical data
13 that she had a white blood cell count over 16,000,
14 you were aware that she was running a temperature and
15 I would like to know what you thought was causing th
16 elevated temperature as well as the elevation in the
white blood cell count.

18 A. Yes. And -- and I think I answered tha
19 question that it was my impression at that time that
20 we were dealing with a gastrointestinal process. I
21 thought it was likely that maybe she had gotten the
22 flu, that she had gastritis, maybe even a perforated
23 ulcer. I mean, the whole spectrum runs here but at
24 that point in time given her presentation and my
25 experience and the information that I had I chose to

-C. Saunders, M.D. - direct - Ms. Tosti-

1 treat her this way.

2 Q. At some point after you saw her in the
3 emergency room did Charlotte Herbert have
4 mediastinitis at some point in her hospitalization?

5 A. Yes, she did.

6 Q. Okay. Do you have an opinion as to when
7 she developed mediastinitis?

8 MS. CARULAS: Note my objection.

9 A. Some point after heart surgery.

10 Q. Okay. Do you have an opinion as to
11 whether she had mediastinitis at the time that *you*
12 saw her in the emergency room?

13 A. It's --

14 MS. CARULAS: Objection. Go ahead.

15 A. Anything is possible.

16 Q. When you saw her in the emergency room
did she have any signs or symptoms of endocarditis?

18 A. Not that I was aware of.

19 Q. Do you have an opinion as to when she
20 developed endocarditis?

A. We had on the -- was it the 22nd --
22 transthoracic echocardiogram that showed normal valve
23 and that Friday I believe it was that she threw an
24 embolus that was removed and found to be a septic
25 embolus. Some time during that period she developed

-C. Saunders, M.D. - direct - Ms. Tosti-

1 mitral valve endocarditis.

2 Q. So is it likely when the echo was done
3 that didn't show any problems that -- let me rephrase
4 this.

5 Is it likely that the endocarditis
6 developed some time after the echo that was done on
7 the 22nd?

8 A. All I can say is that there was no
9 echocardiographic evidence according to the
10 echocardiographer's report of endocarditis on the
11 22nd.

12 Q. Now, Doctor, the instructions that you
13 gave Charlotte Herbert in the emergency room were
14 that she was to contact your office the next day and
15 come in and see you. Is that correct?

16 A. That's right.

17 Q. Okay. And what did you tell Charlotte
18 Herbert in regard to what was going on when you saw
19 her in the emergency room? What was the information
20 that you provided to her?

21 A. Well, specifics are difficult for me to
22 recall but I -- any patient like this I would have
23 told to watch very carefully for the temperature, see
24 how things go, call me if there's a problem, come in
25 the next day and we'll recheck.

-C. Saunders, M.D. - direct - Ms. Tosti-

1 Q. Now --

2 A. And -- and I would also ask them if they
3 were comfortable with that decision.

4 Q. Okay. And do you recall if there was
5 any response from Charlotte Herbert when you told her
6 this? Do you remember any part of the conversation?

7 A. As I remember they were comfortable with
8 that. If they had said that they wanted to be -- if
9 they wanted to be admitted to the hospital that I
10 would have done it. If they were uncomfortable with
11 the plan of care that we had outlined we would have
12 changed it.

13 Q. When you saw her in the emergency room
14 did you have any preconceived plans of admitting her
15 the next day? Had you made any decisions in regard
16 to admission the next day?

17 A. No. My decision at that point was to
18 see what developed over the course of time. We were
19 in an evolving process and it was important to watch
20 and see what happened.

21 Q. Who is Dr. Krause? Do you know who he
22 is?

23 A. I don't.

24 Q. Now, Charlotte Herbert presented to your
25 office the following day on August 21st. Is that

-C. Saunders, M.D. - direct - Ms. Tosti-

correct?

A. Yes, I believe that's correct.

Q. And did you on that day examine her and assess her condition?

A. I think we -- I don't remember the exact specifics of it but I -- but the -- she called and we admitted her right to the hospital at that point.

Q. Did she come in and did you actually see her in person?

A. You know, I don't remember.

Q. Okay. Do you recall doing any kind of a physical exam or anything prior to admission?

A. I don't remember.

Q. Okay. What was the reason that she was being admitted?

A. Because she had continued to have a temperature, continued to feel bad, wasn't doing well at home and -- and I do recall now she had started to drain from the -- from the incision I believe.

Q. Do you recall what was within your differential diagnosis on August 21st when you saw her?

A. At that point we had gotten pus out of the incision and we admitted her with the impression, "rule out mediastinitis, rule out" -- I can't even

-C. Saunders, M.D. - direct - Ms. Tosti-
1 read Jeff --

2 MS. CARULAS: Gastritis.

3 THE WITNESS: Yeah.

4 A, -- "gastritis."

5 Q. Was she admitted to the hospital under
6 your service?

7 A. Yes.

8 Q. And, Doctor, you had rule out
9 mediastinitis. What factors did you observe in her
10 that would lead you to a differential diagnosis of
11 rule out mediastinitis?

12 A. At this point things had changed and she
13 was draining pus out the lower portion of the incision.

14 Q. Okay. Mediastinitis is a deep wound
15 infection, correct?

16 A. (Witness indicates.)

17 Q. Okay. And what evidence did you have
18 that this was a deep wound infection as opposed to
19 just a sternal infection?

20 A. You know, we didn't have any. We could
21 have just as easily written rule out superficial
22 wound infection. We could have just as easily
23 written rule out substernal infection but we knew at
24 this point with the drainage of the pus that that
25 issue had to be addressed and that we had to find out

-C. Saunders, M.D. - direct - Ms. Tosti-

1 the extent of it.

2 Q. Who is Jeffrey Weiland?

3 A. He's a physician's assistant that worked
4 with us at the Cleveland Clinic.

5 Q. Okay. He was a Cleveland Clinic
6 employee also?

7 A. Yes.

8 Q. And, Doctor, there's a progress note
9 that is written by I think Jeffrey Weiland as an
10 admission note at 1420 hour.

11 A. Mm'mm.

12 Q. And it says that she was seen in your
13 office and that she continued to have nausea,
14 vomiting, achiness, fever, chills. Is that
15 consistent with your findings?

16 A. Yes.

17 Q. And did you go to the hospital when she
18 was admitted? Did you see her in the hospital then
19 or did you just see her in the office?

20 A. You know, I really don't recall exactly
21 what the situation was.

22 Q. Do you recall checking her for sternal
23 instability on the 21st?

24 A. I don't recall that. I recall that we
25 made our decision around the new finding of the

-C. Saunders, M.D. - direct - Ms. Tosti-

1 drainage of purulent material from the incision.

2 Q. Now, the information that's contained in
3 Jeff Weiland's note would that be information that he
4 obtained from you or would he be doing his own
5 physical exam?

6 A. No. We'd be doing it together.

7 Q. Okay.

8 A. He would be doing his and we'd be in
9 close communication.

10 Q. Okay. Now, his note from the 21st, it
11 says chest stable with cough. Would that be an
12 observation that he was making with you?

13 A. Yes.

14 MS. CARULAS: How we doing here
15 time-wise? Am I going to catch my 7 flight?

16 MS. TOSTI: I doubt it.

17 MS. HARRIS: Am I going to miss my
18 dinner?

19 MS. TOSTI: We will go until we're done
20 here. I've probably got at least another half hour
21 or more.

22 Q. The nurse's notes indicate that this
23 lady was admitted around 12:15. The doctor's orders
24 don't indicate that there were any orders for blood
25 cultures on this lady until about 2:20.

-C. Saunders, M.D. - direct - Ms. Tosti-

1 Is there any reason why you didn't order
2 blood cultures for her on admission?

A. I don't recall the circumstances.

4 Q. Okay. Wouldn't you expect if the
5 patient was coming in with a diagnosis of rule out
6 mediastinitis that blood cultures should be done
7 immediately upon admission?

8 MS. CARULAS: Objection.

9 A. This is pretty immediate for...

10 Q. Doctor, if you have a suspicion of
11 mediastinitis in this patient wouldn't it be
12 important to put her on prophylactic antibiotics as
13 soon as possible?

14 A. Antibiotics would be important, yes.

15 Q. Yes. Okay. So it would be important to
16 get the blood cultures done and then to start the
17 patient on the antibiotics as soon as possible,
18 correct?

19 A. Yes.

20 Q. Okay. In this instance there were --

21 A. Excuse me.

22 Q. Go ahead. Finish your answer if you
23 have anything in addition you want to add.

24 A. No, I don't.

25 Q. Okay. In this instance there were no

-C. Saunders, M.D. - direct - Ms. Tosti-

1 antibiotic orders written for this patient I think
2 until 5:30. Is there a reason why those orders were
3 written at 5:30 and not at the time that the patient
4 was admitted to the hospital?

5 A. I don't know what the reason is.

6 Q. You would agree, though, that in a
7 patient such as this with a diagnosis of rule out
8 mediastinitis that they should have been ordered on
9 admission, the antibiotic orders?

10 MS. CARULAS: Objection.

11 A. I -- I don't know how to answer that
12 question. I don't think that a two-hour difference
13 in here makes any difference in the treatment of the
14 patient and the final outcome of the patient nor do I
15 know what the circumstance -- recall what the
16 circumstances were that caused that time difference
17 in there but I'm quite certain that it didn't affect
18 the final outcome of this patient and I say that
19 because she was started on the strongest antibiotics
20 that we know, that she had a normal echocardiogram
21 after that and while on these antibiotics she
22 developed vegetation on the mitral valve so do I
23 think that a delay of two hours or twelve hours or
24 whatever in this patient made a difference? No. I
25 think that that's very hard to answer that because it

-C. Saunders, M.D. - direct - Ms. Tosti-

1 depends upon the degree, the spectrum, the virility
2 of the organism, the patient's immune system and a
3 variety of factors.

4 Q. Now, she had a set of blood cultures
5 that were done on August 21st and those blood
6 cultures showed that she had a bacteremia caused by
7 Staph aureus. Is that correct?

8 THE WITNESS: Is that correct?

9 A. Can I consult the chart?

10 Q. I'm not trying to ask you --

11 A. Okay.

12 Q. -- specifically when the blood cultures
13 were done but ultimately the blood cultures that were
14 done showed that her infection was a Staph aureus
15 infection, correct?

16 A. I believe that's correct.

17 Q. And that she had a bacteremia caused by
18 Staph aureus based on the blood cultures, correct?

19 A. Yes.

20 Q. Do you have an opinion as to whether the
21 blood cultures would have been positive for Staph
22 aureus if they had been done in the emergency room on
23 the 20th?

24 MS. CARULAS: Objection.

25 A. Anything is possible.

-C. Saunders, M.D. - direct - Ms. Tosti-

1 Q. Doctor, her bacterial endocarditis was
2 also found to be due to Staph aureus. Is that correct?

3 A. Yes.

4 Q. And is it likely that the mediastinitis
5 that she had caused the endocarditis?

6 A. I think that's likely.

7 MS. TOSTI: I'm editing.

8 MS. CARULAS: What's that?

9 MS. TOSTI: I'm editing.

10 MS. CARULAS: That's encouraging.

11 MS. HARRIS: Keep going.

12 MS. CARULAS: If you think that **by**
13 chance you can finish up within 25 minutes we can
14 call for a cab and at least then -- you know, that
15 way you could make that seven o'clock flight as well
16 because it's only like ten minutes --

17 MS. TOSTI: I'm not sure. It depends on --

18 MS. CARULAS: Okay. Let's check in ten
19 minutes.

20 Q. Doctor, when you have a patient that has
21 mediastinitis such as the type that Charlotte Herbert
22 had what's the purpose of opening and debriding that
23 wound? Why do you do that?

24 A. The basic principles of a wound
25 infection is drainage and debridement and it's the

-C. Saunders, M.D. - direct - Ms. Tosti-
same for her mediastinitis as it is for any other
wound infection.

Q. Does the removal of the infected
material and debris from the wound reduce the risk of
the infection spreading?

A. It may.

Q. Does it promote healing?

A. It may and, again, it depends upon the
spectrum, involvement and all of the factors that
we've discussed several times here before as to how
this patient is going to respond and what treatment
is going to be successful.

Q. Okay. When Charlotte Herbert came into
the hospital on the 21st did you take any action to
open and debride her wound on the day of her
admission?

A. We expressed some -- there's some
drainage. We expressed some purulent material from
the lower portion of her wound.

Q. Was there a reason why you did not open
the wound on the 21st when she came into the hospital

A. Well, specifically for her it's -- you
know, it's difficult for me to recall but in most all
these patients you take it by stages and -- and by
the signs and symptoms and the things that you see

-C. Saunders, M.D. - direct - Ms. Tosti-

1 and your experience. And we got some pus out. We
2 didn't get any more. The next day it looked
3 different and we opened it up and drained more.

4 Q. Okay. How --

5 A. We observed that for awhile and then Dr.
6 Saltus made a decision to -- well, then I think --
7 then I think it was noted that the sternum was
8 unstable and the decision was made then to completely
9 open the wound -- the incision. We had hoped to
10 avoid that.

11 Q. How did the wound look different on the
12 22nd?

13 A. It was draining. It was draining
14 purulent material.

15 Q. Okay. It was draining on the 21st and
16 you said you didn't open it based on your clinical
17 decision but you did open it on the 22nd because it
18 looked different --

19 A. Didn't stop.

20 Q. -- and I want to know what the
21 difference was?

22 MS. CARULAS: Review the records at
23 least just so you're completely....

24 (Pause.)

25 A. The drainage didn't stop. We took the

-C. Saunders, M.D. - direct - Ms. Tosti-dressing off. There was a lot of drainage on the dressing and so we figured that it was more than just a little pus under there and that we needed to look farther.

Q. Okay. Now, you opened only a portion of the wound. Is that correct?

A. That's correct.

Q. Okay. What portion of the wound did you open?

A. The lower portion.

Q. Now, is there a reason why you chose only to open that portion of the wound rather than the whole wound?

A. Well, yes. As I explained before we had hoped not to have to -- to be able to treat it with less aggressive measures, not to have to rewire her sternum. We were hoping that it would be a more contained infection. We were trying to in the process watch her clinical course and find out the extent of this.

Q. Now, Doctor, she was admitted on the 21st after she saw you at the office. You opened this wound at least according to the note on the evening of the 22nd --

A. That's right.

-C. Saunders, M.D. - direct - Ms. Tosti-

1 Q. -- I believe is the note.

2 Did you see her in the morning on the
3 22nd?

4 A. Yes.

5 Q. Is there a reason why you didn't choose
6 to open the wound that morning?

7 A. Yes.

8 Q. Okay. What was that reason?

9 A. The wound had less purulent material
10 expressed, slightly less redness and she's feeling
11 better are the notes that we made.

12 Q. Okay. And you're referring to --

13 MS. CARULAS: The 9:10 a.m. note on the
14 22nd.

15 Q. **So** in the morning on the 22nd did you
16 feel that things were improving at that point?

17 A. We felt that she was resting
18 comfortably, that she was feeling better today, she
19 still remained febrile but the wound had less
20 drainage and slightly less red so it didn't look like
21 it was worse at that point.

22 Q. The opening of the wound that you did in
23 the evening on the 22nd was that done at the bedside?

24 A. Yes, it was.

25 Q. Did you do any debridement when you

-C. Saunders, M.D. - direct - Ms. Tosti-

1 opened the wound at that point in time?

2 A. I don't remember the exact specifics of
3 that but we opened the wound, expressed what we could
4 and we might have -- if there was a little bit there
5 where we didn't do any big procedure, any big
6 debridement, no.

7 Q. After the procedure that was done on the
8 evening of the 22nd did you see Charlotte Herbert
9 after that point in time?

10 A. I think at that point Dr. Saltus assumed
11 her care.

12 Q. Okay. Why is it that Dr. Saltus assumed
13 her care?

14 A. Well, Dr. Saltus --

15 MS. CARULAS: If you know.

16 A. -- was the staff surgeon there
17 practicing with Dr. Mikhail and I had other
18 responsibilities down at the main campus as well.

19 Q. So at the time that you were seeing
20 Charlotte Herbert were you working down in Cleveland
21 as well as in Elyria; at both places? Did you have
22 patients at both places?

23 A. Most likely.

24 Q. Did you spend a portion of your time at
25 both places during the week?

-C. Saunders, M.D. - direct - Ms. Tosti-

1 A. I don't remember the specifics of that
2 at that particular time but -- but, yeah. I might
3 have been at both places.

4 Q. Okay. And what did you tell Dr. Saltus
5 in regard to Charlotte Herbert's condition when he
6 took over her care?

7 A. Well, I don't remember specifics of what
8 I -- what I told him but he was there with us when we
9 debrided it and he was fully cognizant of what had
10 been done and...

11 Q. When you opened the wound on the evening
12 of the 22nd, Dr. Saltus was there with you?

13 A. Yes. I --

14 MS. CARULAS: That's all right. You've
15 answered.

16 Q. Okay.

17 A. You know, I thought that he was but I --
18 my recall that could be -- could be wrong. I don't
19 know.

20 Q. Okay.

21 MS. CARULAS: No. He was.

22 A. It might have been Jeff that was there,
23 too, or maybe all -- both of them were there. I
24 don't recall.

25 Q. It appears that --

-C. Saunders, M.D. - direct - Ms. Tosti-

1 A. I thought that he was.

2 Q. -- that the physician's assistant wrote
3 the note so I'm just interested in knowing if there
4 was anyone additional there and if you don't recall,
5 that's fine.

6 Dr. Saltus's note on the 24th indicates
7 that he found some sternal instability. Did he
8 discuss her case with you at any point after the
9 22nd? Were you still in on any discussions regarding
10 her care with Dr. Saltus?

11 A. I remember specifically, yes, to answer
12 that. I remember specifically him telling me about
13 the plans for the debridement, for opening the chest
14 and, of course, the complication of the emboli.

15 Q. Even though Dr. Saltus was managing
16 after that point were you in to see her at any point
17 that you recall after the 22nd?

18 A. I don't recall.

19 Q. Did you have any input into the decision
20 to take her to surgery for the opening of the
21 remaining portion of her incision and debridement or
22 was that Dr. Saltus's decision?

23 A. Well, Dr. Saltus is certainly capable of
24 making that decision and -- and I believe that he
25 told me that it needed to be done but at that point,

-C. Saunders, M.D. - direct - Ms. Tosti-

1 you know, he was managing the care. I mean...

2 Q. Do you know why that surgery was
3 necessary? And I'm speaking of the debridement and
4 the opening of the wound. .

5 A. Well, as -- as this was followed and as
6 this developed the sternal instability occurred. We
7 had pus draining from an incision and an unstable
8 sternum and that would be the indication.

9 Q. So would it be fair to say that her
10 infection was spreading?

11 MS. CARULAS: Just note my objection
12 again because he wasn't there but to the best of your
13 understanding based upon this discussion you had with
14 Dr. Saltus.

15 A. Yes.

16 Q. Doctor, when a patient has mediastinal
17 infection of the type that Charlotte Herbert has why
18 are the wires in the chest usually removed in the
19 procedure?

20 A. First of all, you're qualifying this as
21 a type that Charlotte Herbert had and I've never seen
22 one like hers before in my life. Let me make that
23 clear. But in any patient that has --

24 Q. Let me withdraw the question and
25 rephrase it.

-C. Saunders, M.D. - direct - Ms. Tosti-

1 In Charlotte Herbert's case why was it
2 indicated to remove the sternal wires?

3 A. Foreign body in a site of infection.

4 Q. Okay. And a foreign body in a site of
5 infection, why would you want to remove the foreign
6 body? What impact does that have on an infectious
7 process?

8 A. First of all, besides the fact that
9 there's a foreign body and it can be a nidus for
10 infection, they're serving no purpose because they'r
11 not holding the sternum together any more.

12 Q. Have you taken patients to surgery to
13 open a sternal wound, debride it and remove wires in
14 your practice?

15 A. Yes.

16 Q. Once sternal instability is noted is
17 there an urgency in getting that patient into surger
18 to open the wound, debride it and remove the sternal
19 wires?

20 MS. CARULAS: Objection.

21 A. Not necessarily.

22 Q. Were you present for that surgery?

23 A. No.

24 Q. Doctor, one of the complications that
25 can occur with bacterial endocarditis is that

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1 vegetations can sometimes break off from a heart
2 valve and travel through the bloodstream as a septic
3 embolism, correct?

4 A. Yes.

5 Q. And in a patient that has had recent
6 bypass surgery and has mediastinitis if they develop
7 acute limb ischemia would you agree that there should
8 be a high index of suspicion for septic embolism from
9 bacterial endocarditis?

10 MS. CARULAS: Note my objection. **Go**
11 ahead.

12 A. Well, there's a variety of things that
13 cause limb ischemia and an embolus and in that
14 endocarditis is one of them.

15 Q. Would you agree in Charlotte Herbert's
16 case that acute ischemia of her left lower extremity
17 on August 25th should have raised a high suspicion
18 that she may be having vegetative embolisms from
19 endocarditis?

20 A. Again, anybody, Charlotte or anyone
21 else, limb ischemia, there's a variety of reasons
22 that can cause that and we would entertain all of
23 them.

24 Q. Okay. But in her case --

25 MS. CARULAS: Just note my objection.

-C. Saunders, M.D. - direct - Ms. Tosti-

1 A. I was answering that in her case.

2 Q. In her case should there have been a
3 high level of suspicion that the limb ischemia may be
4 due to vegetative embolisms?

5 MS. CARULAS: Just note my objection
6 because obviously he wasn't there to assess this
7 patient and so forth and I think you've answered the
8 question but go ahead. If you can answer it --

9 A. I believe I have answered the question
10 and having not been there and recalling the facts
11 there is no reason -- well, I shouldn't comment
12 because I wasn't there. I wasn't taking care of the
13 patient.

14 Q. During the time that Charlotte Herbert
15 was hospitalized at Elyria Memorial Hospital did you
16 have any phone conversations with Dr. Mikhail about
17 her?

18 A. I don't recall.

19 Q. Did you participate in any way in the
20 decision to transfer her to Cleveland Clinic proper
21 in Cleveland?

22 A. No, I didn't.

23 Q. Did you have any conversations with
24 Charlotte Herbert's family while she was a patient at
25 Elyria?

-C. Saunders, M.D. - direct - Ms. Tosti-

1 MS. CARULAS: If you recall.

2 A. I don't recall specifically but I think
3 that I would have in those first two days but I can't
4 specifically recall them.

5 Q. And after she was transferred to
6 Cleveland Clinic did you see her as a patient at all?

7 A. No.

8 Q. And after she was transferred to
9 Cleveland Clinic did you have any conversations with
10 any of the family members?

11 A. Not that I recall.

12 Q. Do you have an opinion as to what caused
13 Charlotte Herbert's death?

14 MS. CARULAS: Note my objection.

15 A. No. I wasn't involved in her care at
16 the end.

17 Q. Do you have an opinion as to what caused
18 her subsequent strokes?

19 A. I wasn't involved in her care at that
20 time.

21 MS. TOSTI: Just about done.

22 Q. Do you have an opinion as to what point
23 in time her condition was irreversible?

24 MS. CARULAS: Objection.

25 A. No, I don't.

-C. Saunders, M.D. - direct - Ms. Tosti-

1 Q. Do you have an opinion as to whether
2 earlier transfer to Cleveland Clinic for valve
3 replacement surgery would have prevented her death?

4 A. No, I don't.

5 Q. Was Charlotte Herbert's death ever
6 discussed in any type of a staff meeting?

7 MS. CARULAS: Objection.

8 A. It would have been discussed at the
9 morbidity and mortality conference.

10 Q. If Charlotte Herbert had not developed
11 endocarditis and her mediastinitis had been treated
12 successfully do you have an opinion as to what her
13 reasonable life expectancy would be?

14 MS. CARULAS: Objection.

15 A. The easy answer is no.

16 Q. Okay. How did you learn of Charlotte
17 Herbert's death?

18 A. I don't recall.

19 Q. Did you learn of her death at some time
20 prior to the filing of this suit?

21 A. Yes.

22 Q. Did you have any conversations with any
23 of the physicians that treated Charlotte Herbert at
24 Cleveland Clinic in Cleveland? And I'm speaking of
25 the time when she was hospitalized there. Did you

-C. Saunders, M.D. - direct - Ms. Tosti-

1 have any conversations with any of the doctors at the
2 Cleveland Clinic?

3 A. I don't recall any specific conversations

4 Q. Do you have any criticisms of anyone
5 that rendered care to Charlotte Herbert?

6 A. Does that include the legal team
7 afterwards?

8 Q. I don't believe any of them rendered
9 care **so**, no.

10 Do you have any criticisms of anyone
11 that rendered care to Charlotte Herbert?

12 A. No.

13 Q. And do you blame Charlotte Herbert in
14 any way for the complications that she suffered?

15 A. Medicine is an inexact science and we
16 all do the best that we can in it with our
17 experiences, with our education and with the
18 presentation of things that are given to us. We
19 don't go around pointing fingers and blaming people
20 and -- and putting cause on things. We all try and
21 do the best that we possibly can given the
22 circumstances that we're working in.

23 Charlotte was an unfortunate individual
24 that had life-threatening diseases and the
25 combination of those diseases came together in her

-C. Saunders, M.D. - direct - Ms. Tosti-

1 and caused a very unfortunate situation and some very
2 dedicated people worked very, very hard to try and
3 correct that for her and they weren't successful.

4 MS. TOSTI: Now, Doctor, I don't have
5 any further questions. I don't know if Beverly
6 Harris may have some questions for you.

7 MS. CARULAS: You still there?

8 MS. HARRIS: I don't have any. Thank you.

9 MS. CARULAS: You have the right to read
10 over the transcript to make sure everything's taken
11 down accurately. I always recommend that you do that
12 and not waive signature.

13 I'll order a copy, send it to me, you
14 have my address and then I'll send it on to the
15 Doctor.

16 And you waive the typical time
17 requirements?

18 MS. TOSTI: How much time do you want?
19 I don't leave it open-ended so tell me what you need.

20 MS. CARULAS: Yes. Month to six weeks?

21 MS. TOSTI: Okay.

22 MS. CARULAS: Is that fair? Okay. All
23 right.

24 (Reporter retains exhibit.)

25 (6:27 p.m.)

JURAT-

I, CRAIG SAUNDERS, M.D., do hereby
 certify that I have read the foregoing transcript of
 my testimony taken on Tuesday, April 6, 1999 and have
 signed it subject to the following changes:

PAGE LINE

CHANGE

 CRAIG SAUNDERS, M.D.

DATE: -----

Sworn and subscribed to before me this
 day of , 19 .

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CERTIFICATE OF OFFICER

I, PATRICIA J. RUSSONIELLO, a Certified
Shorthand Reporter and a Notary Public of the State
of New Jersey, do hereby certify that prior to the
commencement of the examination the witness was duly
sworn by me.

I DO FURTHER CERTIFY that the foregoing
is a true and accurate transcript of the testimony as
taken stenographically by and before me at the date,
time and place aforementioned.

I DO FURTHER CERTIFY that I am neither a
relative nor employee, nor attorney or counsel to any
parties involved; that I am neither related to nor
employed by any such attorney or counsel, and that I
am not financially interested in the action.


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