

IN THE COURT OF COMMON PLEAS

OF CUYAHOGA COUNTY, OHIO

CURTIS RAY BROWN,

ADMINISTRATOR, et al.,

Plaintiffs,

vs.

Case No.

YOUNG S. HAHN, M.D.,

98,756

et al.,

Defendants.

Doc. 243

Deposition of PAUL J. KOPSCH, M.D., a
witness herein, called by the Defendants for
examination under the statute, taken before me,
Claudine Kelly, a Notary Public in and for the
State of Ohio, by agreement of counsel, at 710
Foster Park Road W., Lorain, Ohio, on Tuesday,
March 28, 1989, at 10:30 a.m.

COPY

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PG LN [Ng1]BROWN-KOPSCH 3-28-89 CK ---COMPUTER INDEX--
PG LN BY-M*
3 11 PAUL J. KOPSCH, M.D. BY-MR. LICATA: Q.
PG LN MARK'D
91 12 Exhibits 1 and 2 were mark'd for purposes of
186 20 Exhibit 3 was mark'd for purposes of
PG LN AFTERNOON-SESSION
PG LN /---THIS INDEX IS RESEARCHED BY COMPUTER---



1 MR. LICATA: Let the record reflect
2 this is the deposition of Paul J. Kopsch, K O P
3 S C H, M.D., in the case of Brown versus Hahn.
4 We're here by agreement of parties.

5 PAUL J. KOPSCH, M.D., of lawful age,
6 called for examination, as provided by the Ohio
7 Rules of Civil Procedure, being by me first
8 duly sworn, as hereinafter certified, deposed
9 and said as follows:

10 EXAMINATION OF PAUL J. KOPSCH, M.D.

11 BY-MR. LICATA:

12 Q. Would you please state your name
13 and spell it in its entirety for the record.

14 A. Paul, P A U L, J, which is short
15 for John, J O H N, Kopsch, K O P S C H.

16 Q. Where are we today, Dr. Kopsch?

17 A. Morning of 28 March 1989 we're
18 sitting in our living room at 710 Foster Park
19 Road, Lorain, Ohio.

20 Q. Is that your residence?

21 A. Yes, sir.

22 Q. Is this also an office location or
23 business address?

24 A. No, sir. My business address was
25 Lorain Medical Group Incorporated on West 20th

1

1 Street in Lorain, Ohio.

2 Q. You said was. When did that cease
3 being your business address?

4 A. When I retired from active medical
5 practice.

6 Q. Which was when?

7 A. In late 1986.

8 Q. Am I to assume that you are no
9 longer engaged in the act of practicing
10 medicine?

11 A. That's correct, sir.

12 Q. When you were engaged in practice
13 of medicine at the Lorain Medical Group, what
14 was your position with the group?

15 A. President since its organization.

16 Q. When was that?

17 A. Roughly what was it?

18 MRS. KOPSCH: November '64.

19 A. November 1964, sir.

20 Q. What kind of medicine did you
21 practice with the group?

22 A. The group was entirely engaged in
23 the practice of anesthesiology.

24 Q. That was an anesthesiology group?

25 A. Yes, sir.



1 Q. Is the group still an active group
2 practicing in the area of anesthesiology?

4 Q. You've spent no time practicing
5 anesthesiology since your retirement, correct?

6 A. Correct, sir.

7 Q. Do you spend any time practicing or

10

retirement?

14 A. My only correction is that I still
15 receive a financial settlement which would
16 terminate this spring.

17 Q. They've, in essence, bought out
18 your interest for several years?

19 A. Yes, sir.

20 a. Doctor, before we go any further

23 you ever been deposed before?

24 A. Yes, sir.

25 Q. You're familiar with this process?



1 A. No, sir. I'm not familiar with the
2 process.

3 Q. You've been deposed before. You
4 understand why we're here?

5 A. Yes, sir.

6 Q. You know that we're here to discuss
7 the anesthetic management of Mary Lou Brown
8 during her surgery of May 6, 1985?

9 MR. GOLDENSE: You want to assume
10 the date, go ahead.

11 A. Assuming the date is correct, yes,
12 sir.

13 Q. I'm going to ask you questions
14 today concerning your opinions of her care and
15 treatment on that date, concerning the care and
16 treatment rendered by Judy Daus, **Dr.** Hahn and
17 any other representatives of the hospital on
18 that date. Do you understand that?

19 A. Yes, sir.

20 Q. I'm also going to be asking you
21 questions concerning your experience and
22 knowledge in the practice of anesthesiology and
23 in the practice of anesthesia medicine as it
24 relates to this case and the general area of
25 anesthesia. Do you understand that?

1 A. Yes, sir.

2 Q. If at any time you don't understand
3 my question or can't answer my question, please
4 tell me.

5 A. Yes, sir.

6 Q. If you answer the question I will
7 assume that you not only understood it, but
8 that you could answer it and that the answer
9 was responsive to the question. Is that fair
10 enough?

11 A. Yes, sir.

12 Q. Let me ask you a preliminary
13 question. How much per hour are you charging
14 my clients for this deposition?

15 A. Including the antecedent study, I
16 reviewed the case again for two hours on 10
17 March and one hour on 13 March. My charges
18 will come out to \$150 per hour.

19 Q. So you intend to charge us for the
20 time that you prepared for this deposition?

21 A. Yes, sir.

22 Q. Then you intend to charge us, "us"
23 meaning my clients, for the time giving this
24 deposition?

25 A. Yes, sir.

1 Q. And that rate is \$150 per hour?

2 A. Yes.

3 Q. Is that your usual and customary
4 fee for depositions?

5 A. Yes, sir,

6 Q. If you testify at trial in this
7 case, how much will you be charging?

8 A. The same.

9 Q. So you charge \$150 regardless if
10 it's trial testimony or deposition testimony?

11 A. Yes, sir.

12 Q. That's your usual and customary fee
13 for trial testimony?

14 A. Actually it's my antecedent fee.
15 As of this year I've raised it to \$200 an
16 hour. Since this is pre-existing, I will go on
17 my old fee.

18 Q. I'm sorry. I apologize for
19 interrupting you.

20 A. I'm sorry to interrupt you.

21 Q. As we sit here today any cases that
22 you review would be up to --

23 A. De novo, yes.

24 Q. When did you start implementing the
25 \$200 per hour fee?



1 A. The beginning of this year.

2 (Discussion off the record.)

3 Q. Doctor, am I to assume that your
4 fee is also the same when you review cases, in
5 other words, when you spend time reviewing
6 records and arriving at an ultimate opinion in
7 the case?

8 A. Yes, sir.

9 Q. How much have you charged thus far
10 in this case for reviewing it and rendering
11 your preliminary opinion, or I should say, your
12 opinion set forth in the statement of March 9,
13 1988?

14 A. I believe it was \$240, sir.

15 Q. So if my calculation is correct,
16 you spent approximately an hour and-a-half
17 reviewing records and rendering your opinion?

18 A. Preliminary to this, yes, sir.

19 Q. You were retained in this case by
20 Mr. Goldense, correct?

21 A. Yes, sir.

22 Q. Have you had any prior relationship
23 with him in other cases?

24 A. No, sir.

25 Q. Have you ever had any prior

1 relationship with Mr. Michael Shapero?

2 A. Not that I recall, sir.

3 Q. Have you had any prior
4 relationship, business or social, with any of
5 Mr. Goldense's or Mr. Shapero's associates or
6 partners?

7 A. Who are they, sir?

8 Q. That depends on whether you had any
9 relationship with any of them.

10 A. Not that I know of, sir.

11 Q. Fine. How did you become involved
12 with this case?

13 THE WITNESS: Was it not the court
14 stenographer who referred you?

15 MR. GOLDENSE: **For** the record, he
16 is asking me and so the answer to the witness
17 is right.

18 Q. What court stenographer?

19 A. One of the ladies who is a court
20 stenographer at the Lorain County Court.

21 Q. Would that **be** Kathleen A. Hopkins &
22 Associates court reporting firm?

23 A. Must have been, sir.

24 Q. Are you listed on any expert
25 referral services?

1 A. Not that I know of, sir.

2 Q. You indicated that you've given
3 prior testimony before on deposition. Could
4 you tell me about how many depositions you've
5 given in the past?

6 A. Depositions. If I had to guess, it
7 would be half a dozen, sir.

8 Q. So approximately six depositions?

9 A. Yes, sir.

10 Q. Within what time frame?

11 A. Over the last 10 years.

12 Q. How many times have you testified
13 at trial in the past?

14 A. Scores of times. This was
15 necessitated when I was Lorain County Coroner.

16 Q. I will ask you some questions about
17 that position in a few moments. But before we
18 get to that, aside from testimony that you
19 provided as the county coroner, how many times
20 **did** you testify at trial in other cases?

21 A. In trials, sir?

22 Q. Yes.

23 A. Two or three times.

24 Q. what time period was that?

25 A. Also within the last 10 years.

1 Does this include arbitration
2 hearings? Is that a trial?

3 Q. Let's separate those. Have you
4 testified at arbitration hearings?

5 A. Twice, sir.

6 Q. That's separate and apart from your
7 testimony at trial?

8 A. No. I include that in the trial
9 testimony.

10 Q. So you've testified two to three
11 times at either arbitration or trial?

12 A. Yes, sir.

13 Q. Were those cases where you
14 testified at either arbitration or trial
15 medical malpractice cases?

16 A. Yes, sir.

17 Q. Were you testifying for the
18 Plaintiff or the Defendant in those cases?

19 A. Let's narrow that down to two
20 cases.

21 Q. All right.

22 A. Both were arbitration. In both
23 cases I testified for the defense.

24 Q. Let's talk about one of those two
25 cases first and then we'll talk about the other

1 one. Pick whichever one want. What **do** you
2 remember about either of those cases, what were
3 the issues in one of those cases? Did it
4 involve anesthesiology?

5 A. Yes, sir.

6 Q. Do you remember the name of the
7 case?

8 A. No, sir.

9 Q. Either case?

10 A. I don't remember the names in
11 either case.

12 Q. Were both cases anesthesiology
13 cases?

14 A. Yes, sir. One was in Norwalk. The
15 other was Sandusky.

16 Q. **Do** you remember the attorneys that
17 retained you?

18 A. No, sir.

19 Q. **Do** you remember any of the parties
20 names?

21 THE WITNESS: What was the name of
22 that guy in Sandusky?

23 MRS. **KOPSCH**: I don't know.

24 A. Because he was thinking of settling
25 here and I talked with him years ago.



1 MRS. KOPSCH: I don't remember.

2 A. So the chap in Sandusky was a DP
3 whose wife's father had been a Russian
4 general. She offered me his insignia. I don't
5 remember his name.

6 The doctor in Norwalk was a DO and
7 a younger man. I don't remember his name. If
8 that would help you in running them down.

9 Q. In addition to your testimony at
10 arbitration, did you also give deposition
11 testimony in those two cases?

12 A. I don't recall, sir.

13 Q. But you do recall giving
14 approximately six depositions within the last
15 10 years?

16 A. Yes, sir.

17 Q. Let's talk about these arbitration
18 cases. Were both of those cases involving
19 general anesthesia or some other form of
20 anesthesia?

21 A. Both involved general anesthesia,
22 sir.

23 Q. Did either one of those cases
24 involve the use of general anesthesia during a
25 GYN procedure, gynecological procedure?

1 A. I don't remember.

2 Q. Did either one of those cases
3 involve cardiac arrest?

4 A. Yes, sir.

5 Q. Both or one of them?

6 A. Both, sir.

7 Q. In both cases did the patient die
8 as a result of the cardiac arrest?

9 A. Yes, sir.

10 Q. In both cases were you able to form
11 an opinion as to the cause of death?

12 A. If I recall, sir, the one in
13 Sandusky was inexplicable. The one in Norwalk,
14 it was not the doctor's fault.

15 Q. Do you recall since it was not the
16 doctor's fault, are you referring to the
17 anesthesiologist or the surgeon?

18 A. The anesthesiologist, sir.

19 Q. Do you recall in the Norwalk case
20 what was the ultimate cause of death if it was
21 not the anesthesiologist's fault?

22 A. No, sir.

23 Q. Were either one of those cases the
24 result of improper intubation?

25 A. No, sir.



1 Q. Were either one of those cases the
2 result of improper administration of anesthetic
3 prior to intubation?

4 A. Not that I could delineate. That's
5 why I'm saying neither case was that.

6 Q. You say in either of those cases
7 there was no problem with the administration or
8 care and treatment rendered by the
9 anesthesiologist?

10 A. That's why I testified for the
11 defense, sir.

12 Q. Of the six cases that you can
13 recall rendering deposition testimony within
14 the past 10 years, how many of those do you
15 recall involved the administration of general
16 anesthesia?

17 A. I believe all of them, sir.

18 Q. Do you recall **if** any of those also
19 involved the administration **of** general
20 anesthesia during a gynecological procedure?

21 A. I don't remember them in that much
22 detail.

23 Q. Do you remember if any of those six
24 also resulted in cardiac arrest?

25 A. I think all of them did.



1 Q. Do you remember if any of those six
2 resulted in the ultimate death of the patient?

3 A. One I recall, the girl survived for
4 several months, spastic and decerebrate, an
5 object of pity. The others I believe died and
6 stayed dead.

7 Q. Of those six cases that you can
8 recall, how many of those cases were for the
9 Plaintiff that you testified for as opposed to
10 cases for the defense?

11 A. I think those were about equally
12 divided, sir. Half Plaintiff, half defense.

13 Q. In any of those cases that you
14 testified for the Plaintiff, had you reached an
15 opinion that the cardiac arrest was ultimately
16 the result of improper intubation?

17 A. Intubation? No, sir.

18 Q. In those three cases where you
19 testified for the Plaintiff, had you reached an
20 opinion as to whether the cardiac arrest was
21 ultimately the case of improper administration
22 of anesthetic agents or gases?

23 A. Yes, sir.

24 Q. From all three of those, what is
25 the number of the three? One or two or three?

1 A. Improper -- all I can tell you is
2 improper management by the anesthesiologist. I
3 don't remember them in that much detail.

4 Q. Do you remember the case names of
5 any of those six cases?

6 A. No, sir.

7 Q. Do you remember any of the lawyers
8 who retained you in any of those cases?

9 A. There was a chap up in Detroit.
10 What was his name?

11 MRS. KOPSCH: Fried.

12 A. F R I E D .

13 Q. That was the attorney or doctor?

14 A. The attorney.

15 Q. It was an attorney in Detroit named
16 Mr. Fried that you worked for in the case?

17 A. Yes, sir.

18 Q. Was he a Plaintiff's lawyer? Was
19 that one of the Plaintiff cases?

20 A. Yes, sir.

21 Q. Do you remember any other names of
22 the lawyers or the doctors in any of those six
23 cases where you provided deposition testimony?

24 A. No, sir.

25 Q. In the last 10 years, how many

1 cases have you reviewed on the average per year
2 involving the care and treatment rendered by an
3 anesthesiologist?

4 A. Probably one or two a year. At
5 most two.

6 Q. Are those cases typically cases
7 reviewed for Plaintiffs or Defendants?

8 A. Both.

9 Q. What percentage would you estimate
10 are for Plaintiffs as opposed to the
11 Defendants?

12 A. Half and half, sir.

13 Q. In those cases that you have
14 reviewed do you always give a report or a
15 statement after you have reviewed the case?

16 A. Either verbal or written. Yes,
17 sir.

18 Q. Prior to the last 10 years, because
19 we've been talking about the past 10 years, did
20 you also review before that 10 year period?

21 A. At the hospital level. Yes.

22 Q. When you say "at the hospital
23 level" what do you mean?

24 A. In the various review committees
25 which were set up in the hospital staff

1 organization, sir, tissue committee, death
2 committees, whatnot.

3 Q. In a peer review sense?

4 A. Yes, sir.

5 Q. Would it be fair to say then,
6 Doctor, that you have been reviewing cases as
7 an expert and rendering opinions on those cases
8 since 1979?

9 A. And before.

10 Q. When did you start reviewing cases
11 and rendering opinions as an expert?

12 MR. GOLDENSE: Does that include
13 his peer review committee?

14 MR. LICATA: No. Excluding the
15 peer reviewing. I understand the peer
16 reviewing committee is more hospital related
17 and not expert related.

18 Q. You weren't retained by anyone to
19 render an opinion on those cases? That was
20 part **of** your job being on hospital staff?

21 A. Yes, sir.

22 Q. Aside from your duties and
23 responsibilities on the hospital staff, when
24 did you begin reviewing cases and rendering
25 opinions as an expert for the purposes of



1 litigation?

2 A. Roughly 10 years.

3 Q. Approximately 1979?

4 A. Yes, sir.

5 Q. When were you coroner of Lorain
6 County -- was it Lorain County?

7 A. Yes, sir.

8 Q. When were you coroner of Lorain
9 County?

10 MRS. KOPSCH: 1958 to 1972.

11 A. 1958 to 1972, sir. Thank God I got
12 the brains in the family here.

13 Q. When you were the coroner for
14 Lorain County did you also engage in the active
15 practice of medicine?

16 A. Yes, sir.

17 Q. As an anesthesiologist?

18 A. Yes, sir.

19 Q. Would you estimate for me the
20 percentage of time you devoted to the practice
21 of medicine during that time as opposed to the
22 practice of being a coroner?

23 A. 90 percent practice, 10 percent
24 coroner.

25 Q. In 1972 until 1986 I assume that



1 you were engaged in the practice of medicine as
2 an anesthesiologist?

3 A. Before that as well, sir.

4 Q. I understand that. We've brought
5 you up to 1972. My understanding is from 1958
6 to 1972 you practiced anesthesiology about 90
7 percent of the time and coroner 10 percent?

8 A. Yes, sir.

9 Q. From '72 until your retirement in
10 1986 you practiced anesthesiology?

11 A. Alone?

12 Q. That's my next question.

13 A. **No**, sir.

14 Q. You **did** engage in the practice of
15 medicine, though, during that period **of** time
16 from 1972 to '86?

17 A. Yes, sir.

18 Q. What percent **of** your professional
19 time was directed towards practicing
20 anesthesiology?

21 A. 90 percent of the time, sir.

22 Q. Was that consistent from 1972
23 through 1986?

24 A. Yes, sir.

25 Q. In other words, it didn't start out



1 at 95 percent and trail off to 90 percent or
2 less? It was always about 90 percent?

3 A. Yes, sir. The other -- you want to
4 know the other 10 percent of the time?

5 Q. That's the next question. What did
6 you do for the other 10 percent?

7 A. Medical officer. The Army.
8 National Guard.

9 Q. During the time when you were a
10 coroner from 1958 to 1972, that's the period in
11 which you testified a number of times
12 concerning your duties as a coroner, correct?

13 A. Yes, sir.

14 Q. Did your testimony in any of those
15 cases deal with anesthesiology cases?

16 A. Only once that I remember.

17 Q. Could you relate that case to me.
18 What do you remember of it? What did that case
19 involve factually?

20 A. A gentleman over in Elyria who had
21 a belly ache went in a bar to kill the pain,
22 while there he got shot in the right chest.
23 The surgeon went in to do a thoracotomy, did a
24 thoracotomy, stopped the bleeding, cleared out
25 his right chest. He died 24 hours later.



1 What he died of was a strangulated
2 abdominal hernia which the surgeon had
3 overlooked and the damn police wanted to hold
4 the guy who shot him for murder. I persuaded
5 -- the bullet wound was incidental, yet the
6 poor man's death was goitrogenic. The

8 got him on assault and battery instead of
9 murder or manslaughter.

10 Q. Other than this case that you just
11 described for us, I take it there have been no
12 other cases where you have testified involving
13 issues of death related to anesthesiology?

14 A. In surgery or anesthesia as the
15 coroner that's the only one that stands out in
16 my mind, sir.

17 Q. Is that also the only one that you
18 recall seeing as a coroner, not testifying, but
19 seeing in your 14 years of experience?

20 A. No. **No.** There's other cardiac
21 arrests during or following surgery that came
22 under my review.

23 Q. In any of those cases, did you
24 recall if you concluded that cardiac arrest was
25 caused by something that had been done by

1 either the surgeon or anesthesiologist?

2 A. No, sir.

3 Q. I notice that you have kind of a
4 humorous response to that question. Is there a
5 particular reason?

6 A. No, sir. No. What you're bringing
7 up is a matter of fault or error. In many
8 cases one suspensions it, but in the absence of
9 positive findings cannot demonstrate it, sir.
10 You know that. I know it.

11 Q. When you did your report, was it
12 your responsibility as coroner to render an
13 opinion in the report as to the cause of the
14 death?

15 A. Yes, sir. On the death certificate
16 there is a line, "Cause of death.

17 Q. " In cases where you had to review
18 the cause of death as it related to any
19 anesthesiology issues, did you ever conclude
20 that the administration of anesthesia was the
21 ultimate cause of death?

22 MR. GOLDENSE: Objection. Asked
23 and answered.

24 Go ahead. You may answer.

25 A. No, sir.



1 Q. Did you ever form an impression
2 that you articulated in a report that the
3 ultimate cause of death was caused by the
4 administration of anesthesia?

5 MR. GOLDENSE: Objection. Same
6 basis.

7 You may answer.

8 A. I might have listed it as a
9 contributory or incidental factor since it
10 would have -- some of these deaths occurred
11 during the state of anesthesia, therefore, I
12 would have to list that as an incidental or
13 contributory factor. I don't recall listing
14 any of them as the primary cause, sir. I'm not
15 trying to be evasive.

16 Q. I understand. I'm merely trying to
17 sort out as much information as I can based on
18 all of your experience over the years.

19 A. Yes, sir.

20 Q. In looking at cases that you
21 reviewed as a coroner which ultimately resulted
22 in death, did you ever come to the conclusion
23 that death was caused by an anaphylactic
24 reaction to some drug or medication?

25 A. Yes, sir.



1 Q. In those cases had you made any
2 determination that the anaphylactic reaction
3 occurred while the patient was under
4 anesthesia?

5 A. No, sir. Because anaphylaxis is
6 suppressed or absent during anesthesia.

7 Q. In all cases?

8 A. Under general anesthesia almost all
9 cases.

10 Q. When is it not?

11 A. When one is dealing with the
12 parasympathetic preponderance.

13 Q. Are there any other situations?

14 A. None spring to mind, sir.

15 Q. Why is it that in the
16 parasympathetic category you could have an
17 anaphylactic reaction while under general
18 anesthesia, but you cannot have that reaction
19 otherwise?

20 A. Because anaphylaxis is ordinarily
21 an overwhelming sympathetic response.

22 Q. What you are telling me then is
23 that while under general anesthesia a
24 sympathetic response typically cannot occur?

25 A. It can occur. But it is not



1 overwhelming, ordinarily.

2 Q. When you said "ordinarily," does
3 that mean that there are situations when it can
4 be overwhelming and can ultimately lead to
5 anaphylaxis?

6 A. Yes, sir.

7 Q. And the parasympathetic situations
8 that you referred to, would you explain to me
9 how that differs from your sympathetic
10 response?

11 A. The sympathetic is easier to
12 delineate in his response of hypertension, and
13 causes in a conscious person, anxiety,
14 hypertension, tachycardia, would be the
15 predominant findings under general anesthesia.

16 Q. In a sympathetic response?

17 A. Parasympathetic would be
18 bradycardia and hypotension in the anesthetized
19 patient.

20 Q. So if a patient who is anesthetized
21 has bradycardia and hypotension, are those
22 signs that can be associated with anaphylaxis?

23 A. No, sir. The anaphylaxis. Yes,
24 sir. It would be more anaphylaxis. One would
25 have to consider this in trying to figure out

1 what was going on. One would have to consider
2 it.

3 Q. In patients that don't have
4 anaphylactic reaction but do develop cardiac
5 arrest while under general anesthesia, is it
6 your testimony that they would have sympathetic
7 response prior to their cardiac arrest?

8 A. No, sir. One --

9 Q. They would have -- I'm sorry. I
10 don't mean to cut you **off**.

11 A. One cannot rely on their having
12 either parasympathetic or sympathetic since
13 these are largely suppressed under general
14 anesthesia. Since both types of responses are
15 largely suppressed.

16 Q. You could have cardiac arrest
17 without seeing either parasympathetic or
18 sympathetic responses?

19 A. Yes. The hypo or hypertension and
20 bradycardia or tachycardia may or may not
21 appear as antecedents to the cardiac arrest
22 under general anesthesia.

23 Q. We got off the track a little bit.
24 Eventually I will come back to this area.
25 Before we do, let me ask you some more

1
2
3 Excuse me for asking it again, but
4 as a coroner was it your testimony that you did
5 or did not see cases where individuals
6 ultimately had cardiac arrest and death caused
7 by an anaphylactic reaction while under
8 anesthesia?

9 A. Not while under anesthesia. The
10 anaphylaxis which I recognized was **in** conscious
11 people.

12 Q. In the situations where you saw the
13 anaphylactic reaction in conscious people, were
14 those cases also involved with some surgical
15 procedure?

16 A. No, sir.

17 Q. Were those cases strictly
18 nonsurgical anaphylactic reaction to some drug
19 **or** medication?

20 A. **No**, sir.

21 Q. What kinds of cases were they?

22 A. **One** that stands out in my mind was
23 a paramedic here in town who died of
24 anaphylaxis following a bee sting, which was
25 not a therapeutic bee sting. He did not have

1 arthritis. Others -- couple of penicillin
2 anaphylaxis. Those are the ones that I
3 remember, sir.

4 Q. Would you agree that there are a
5 number of drugs and medications that will cause
6 anaphylactic reactions and ultimately lead to
7 cardiac arrest?

8 A. Not will, but may in the
9 anesthetized person. In some people it will
10 not. In others it will.

11 Q. You've testified in Ohio,
12 obviously. Have you testified in states other
13 than Ohio?

14 A. Yes, sir.

15 Q. Which states would those be?

16 A. Michigan. Period.

17 Q. In the cases that you reviewed,
18 have you reviewed cases for parties in states
19 other than Ohio?

20 A. In Michigan. Yes, sir.

21 Q. Any other states?

22 A. Missouri.

23 Q. Any others?

24 A. Puerto Rico.

25 Q. Is that all or are there more?

1 A. Those are the only ones that spring
2 to my mind, sir.

3 Q. You testified in cases in both Ohio
4 and Michigan and you have reviewed cases in
5 Ohio, Minnesota, Missouri, and Puerto Rico?

6 A. Not Minnesota.

7 Q. I apologize. You reviewed cases in ,
8 Ohio, Michigan, Missouri and Puerto Rico?

9 A. Yes, sir.

10 Q. As an anesthesiologist how many
11 times have you been involved with the
12 administration of general anesthesia during a
13 gynecological procedure such as the one that
14 Mary Lou Brown underwent in this case?

15 A. Thousands of times, sir.

16 Q. Have there been cases where you
17 have been involved with the administration of
18 anesthesia involving Ob/Gyn procedures, the
19 gynecological procedure such as the one
20 performed in this case on Mary **Lou** Brown,
21 wherein some other form of anesthesia was **used**
22 other than general anesthesia?

23 A. Yes, sir.

24 Q. What forms were those?

25 A. Spinal or epidural, sir.



1 Q. What percentage of the cases that
2 you have been involved with during your
3 experience were spinal, epidural, or general
4 anesthetic cases when the gynecological
5 procedures were performed such as the one
6 performed on Mary Lou Brown?

7 A. Over the years I would guess 90
8 percent general anesthesia, eight percent
9 spinal, two percent epidural.

10 Q. Would you agree, Doctor, that it's
11 not a deviation from the acceptable standards
12 of anesthesia care to administer general
13 anesthesia for GYN procedures such as the one
14 performed on Mary **Lou** Brown?

15 A. Yes, sir. I would agree.

16 Q. Do you have any criticisms of the
17 anesthesiologist's decision in this case to
18 administer general anesthesia to Mary **Lou** Brown
19 for her procedure?

20 A. No, sir.

21 Q. Before I get any further, have **you**
22 ever been named as a Defendant in any cases?
23 Have you ever been sued?

24 A. Yes, sir.

25 Q. How many times?

1 A. Threatened once. Sued once.

2 Q. You've had one claim against you
3 but no lawsuits? In other words, one claim
4 against you that did not result in a lawsuit
5 and one separate lawsuit?

6 A. Yes, sir.

7 Q. Let's talk about the claim that was
8 asserted but not filed as a lawsuit. What kind
9 of case was that?

10 MR. **GOLDENSE**: Show my continuing
11 objection to the line of questioning about
12 whether the doctor was a party to the action.

13 With that objection, go ahead and
14 answer his question.

15 Q. What kind of situation was the one
16 where a claim was named against you but a suit
17 was not filed?

18 A. A little boy over at Oberlin, Allen
19 Memorial Hospital, whose name escapes **me**. He
20 was in for a squint operation. I asked **him** how
21 he was since I'd seen him pre-op. He told me
22 -- he responded to his first name. I put him
23 to sleep. The surgeon started to fix his eye
24 muscles. Part way through another surgeon
25 busted in the room and says, "Fellows, you're



1 working on the wrong guy." Damned if the next
2 kid didn't have the same first name.

3 The next kid was a squint. The kid
4 that we were working on was supposed to have
5 his hernia fixed. So the surgeon put his eye
6 muscles back together. The other fellow fixed
7 his hernia. We didn't do him any harm. We
8 sent him back to bed.

9 Wouldn't you know his uncle **was** a
10 lawyer over in Elyria. His uncle says "**Do** you
11 want to settle this?" And the eye man and I
12 said, "Oh, sure. We would like to settle it."
13 We settled for a couple hundred bucks each out
14 of our own pocket.

15 Q. That claim didn't involve
16 anesthesia care?

17 A. Yes. I got the wrong kid with the
18 same first name.

19 Q. There was no claim that you
20 improperly administered anesthesia?

21 MR. GOLDENSE: Objection. Move to
22 strike the last answer as immaterial.

23 (Record read.)

24 MR. GOLDENSE: I renew my objection
25 and renew my motion to strike.



1 A. No, sir.

2 Q. Let's talk about the lawsuit that
3 was filed against you? What did that entail?

4 A. It was a lady who was a welfare
5 cheat and a barmaid. The surgeon takes out a
6 small tumor from the posterior tracheal from
7 the neck. She had a wing scapular from it --
8 from super scapular nerve damage and the lawyer
9 sued everybody involved.

10 He wanted a couple hundred thousand
11 bucks from me. I told him you could buy alot
12 of barmaids for 100,000. He wasn't going to
13 get a couple hundred thousand from me. He
14 settled out of court for nuisance settlement of
15 50.

16 MR. GOLDENSE: I renew my objection
17 on this line of questioning and renew my motion
18 to strike the last answer.

19 A. When the lawyer came in and wanted
20 his hernia fixed he said he didn't want any of
21 the SOB's from the lawsuit performing the
22 surgery. I pointed out he would get red carpet
23 treatment. I wouldn't take any chances on
24 him. He was an Avon Lake attorney.

25 Q. Did he have any claim that you had



1
2 case?

3 A. No. Just I was in the room with an
4 unfortunate surgical result in that case.

5 Q. Were you deposed?

6 A. No, sir. I said I wasn't paying
7 that much to the barmaid.

8 Q. Those are the only two cases where
9 you could recall that were involving you as a
10 party or potential party?

11 A. Yes, sir.

12 Q. Have you ever filed an action
13 against anyone?

14 MR. GOLDENSE: Objection.

15 You may answer.

16 A. No, sir.

17 Q. Doctor, do you have a curriculum
18 vitae?

19 A. Not current, sir. I've not renewed
20 it since I retired.

21 Q. What I'd like to do is go through
22 some of your credentials starting with where
23 you went to medical school and what you did
24 after medical school. Where did **you** go to
25 medical school?

1 A. Long Island College of Medicine.
2 Brooklyn, New York. It's presently the Down
3 State campus of the State University of New
4 York.

5 Q. When did you graduate?

6 A. 1948, sir.

7 Q. After that did you do an internship
a or residency?

9 A. After that I had a rotating
10 internship at Indiana University Medical
11 Center, Indianapolis, Indiana.

12 Q. How long were **you** there?

13 A. One year.

14 Q. When you were rotating, does that
15 mean you rotated through various disciplines?

16 A. Services, sir.

17 Q. Services?

18 A. Services.

19 Q. Did you do a residency?

20 A. Yes, sir.

21 Q. Where was that and for how long?

22 A. University of Oklahoma Hospital,
23 Oklahoma City, Oklahoma, for two years, sir.

24 Q. What years are we in now **by** the
25 way, 1951?

1 A. 1949 to 1951.

2 Q. After you were finished with your
3 residency in 1951 where did you go from there?

4 A. Practice in Lorain.

5 Q. Were you from the Lorain area?

6 A. No, sir.

7 Q. What brought you to Lorain?

8 A. Two men inveigled me into this and
9 said it would be a good place to try and make a
10 living, until I was called up for duty during
11 the Korean war. One of them is still living,
12 and every time I see him I curse him in Italian
13 since he is of Italian extraction.

14 Q. I assume you were licensed to
15 practice in Ohio?

16 A. Yes, sir.

17 Q. What was the date of your license?

18 A. 1951. It was issued by endorsement
19 since previous to that I had passed the
20 examinations of the National Board of **Medical**
21 **Examiners.**

22 Q. Are you also licensed in any other
23 states?

24 A. The only state that I put in for a
25 license was Michigan over a several year



1 period, since we would go up there for annual
2 training with the National Guard and it made my
3 life a little easier to be licensed to practice
4 medicine and surgery in Michigan.

5 Q. When did you obtain your Michigan
6 license?

7 A. I don't know, sir. It would be
8 probably 15 years ago.

9 Q. Did you say a specific kind of
10 license or in other words --

11 A. No, sir. It was the regular
12 licensure in Michigan issued by endorsement. I
13 kept it up for probably 10 years.

14 Q. So as of this date you do not have
15 a license in Michigan to practice medicine?

16 A. Correct, sir.

17 Q. Is your Ohio license still active
18 and valid?

19 A. Yes, sir. I've kept up my
20 postgraduate hours. I've kept up my Ohio
21 licensure.

22 Q. Are you board certified, Doctor?

23 A. In anesthesiology. Yes, sir.

24 Q. Anything else?

25 A. No, sir.



1 Q. Have you ever engaged in the
2 practice of gynecological medicine?

3 A. Okay. As a medical student, as an
4 intern, and during my years with the National
5 Guard. All of those had gynecological work
6 involved.

7 Q. Before I ask you more about that,
8 let me make sure I understand. In 1951 after
9 you completed your residency you came to
10 Lorain, Ohio; is that correct?

11 A. Yes, sir.

12 Q. Did you then, at some point after
13 that, go into the military service?

14 A. Yes, sir.

15 Q. What year was that?

16 A. 1960, sir. Until 1986. 1960 to
17 1986.

18 Q. And that was in the National Guard?

19 A. That's in the -- no. The National
20 Guard did not issue commissions. That's in **the**
21 US, the Army, United States.

22 Q. You did not serve during the Korean
23 war then?

24 A. No, sir.

25 Q. In 1960 when you became a member of

1 the Guard did you practice medicine for the
2 Guard?

3 A. Yes, sir.

4 Q. Did you practice medicine for them
5 from 1960 to 1986?

6 A. Yes, sir.

7 Q. What was the nature and extent of
8 your practice with the guard?

9 A. General medical practice, sir.

10 Q. Approximately how many hours per
11 week or per month, whichever is easier, did you
12 spend practicing medicine with the Guard?

13 A. One weekend a month. Two weeks in
14 the summer.

15 Q. Would those be 40 hour weeks and
16 eight hour days?

17 A. No, sir. It would be like 20 hour
18 days.

19 Q. Are you exaggerating?

20 A. No, sir. Because quite often I'd
21 be the only medical officer available.

22 Q. So on the weekends you would be
23 working?

24 A. Oh the weekends are just drill
25 periods. Eight hours a day. Two weeks per

1 summer. Quite often I was the only medical
2 officer available.

3 Q. Just so I understand, were you or
4 were you not practicing medicine on the
5 weekends for the Guard?

6 A. Yes, sir.

7 Q. As part of your drill?

8 A. Histories, physicals, treating
9 emergencies.

10 Q. During the summer were you doing
11 the same types of things, histories, physicals,
12 treating emergencies, or were you doing
13 something more extensive?

14 A. During the summer we had -- only
15 rarely **did** we have the time to do the history
16 and physical bit. We were doing essentially
17 emergency room practice.

18 Q. When you were doing gynecological
19 procedures did they involve D & C's, bilateral
20 pelvic examinations, or hysterosalpingograms?

21 A. Pelvic exams. Yes, sir. No D &
22 C's and no hysterosalpingography.

23 Q. Did your medical practice, other
24 than with the Guard, require you to perform
25 gynecological procedures?



1 A. No, sir.

2 Q. So your only gynecological
3 involvement with patients was through the
4 Guard?

5 A. Well, when the attending physician
6 would not get to the delivery room on time on
7 half a dozen occasions at least, I wound up
8 doing the episiotomy and delivering the baby,
9 sewing them up, and then keeping them asleep
10 until the attending doctor got there and could
11 tell them what they had.

12 Q. That would be the exceptions as
13 opposed to the normal, wouldn't it?

14 A. Correct, sir.

15 MR. GOLDENSE: Hopefully.

16 A. We're like lawyers. We cover for
17 each other.

18 Q. In your years with the Guard did
19 you perform any radiological activities or
20 services?

21 A. No, sir. We usually had other
22 technologists along to do the radiology.

23 Q. Doctor, do you have any experience
24 with the use of sinografin or are you familiar
25 with it?

1 A. I know of the substance. I have no
2 personal experience using it.

3 Q. Would you agree that you're not an
4 expert and not qualified to render an opinion
5 on the use of sinografin or its effects?

6 A. No, sir. Because I reviewed the
7 worldwide literature on sinografin to see
8 whether Miss Brown's death could have been due
9 to it. And the worldwide literature gave me
10 some information.

11 Q. Before this case would **you** agree
12 that you were not an expert and not qualified
13 to render an opinion in the use of sinografin
14 or its effects?

15 A. Before this case I had no occasion
16 to review the literature on it, sir.

17 Q. Would that mean yes **or** no?

18 A. Yes. I knew a little about it.

19 Q. So you were not an expert and not
20 qualified to render an opinion on the use of
21 sinografin or its effects prior to this case?

22 A. Correct, sir.

23 Q. Before this case, however, you're
24 telling us that you have reviewed the
25 literature, in addition to other records that

1 we'll talk about in a minute, and you now feel
2 qualified and competent to render an opinion
3 considering the use of sinografin and its
4 effects?

5 A. Based on the literature, yes, sir.

6 Q. Would you agree that you are not
7 qualified and not an expert to render an
8 opinion on any of the gynecological procedures
9 that were performed by Dr. **El** Hamshari on Mary
10 Lou Brown?

11 A. Having been present at the time of
12 these. No. I would not agree.

13 Q. So you feel that you are an expert
14 and can render a qualified competent opinion on
15 the gynecological procedures that were
16 performed by Dr. **El** Hamshari in this case?

17 A. As a participant?

18 Q. As an anesthesiologist?

19 A. As a participant, no.

20 Q. As an anesthesiologist involved in
21 the administration of general anesthesia in
22 these cases, your expertise would be limited to
23 that role. **Is** that a fair statement?

24 A. Yes, sir.

25 Q. We talked a little bit before about

1 anaphylactic reaction and whether that can or
2 cannot occur under general anesthesia.

3 Although you, I believe, stated that that
4 typically does not occur, there are instances
5 where anaphylaxis will occur under general
6 anesthesia, correct?

7 A. Yes.

8 Q. Could you tell me the sequence you
9 would expect to see in a patient who develops
10 anaphylaxis while under general anesthesia?

11 A. I would expect to see increased
12 bleeding, hypotension, bradycardia and cardiac
13 arrest.

14 Q. Doctor, do you presently have any
15 privileges at any hospital, staff privileges?

16 A. I'm on the honorary staff at St.
17 Joseph Hospital, Lorain, Ohio.

18 Q. Is that since your retirement?

19 A. Yes, sir.

20 Q. Prior to your retirement did you
21 have privileges at any other hospitals other
22 than St. Joseph?

23 A. Over the years at various times I
24 practiced at Allen Memorial Hospital at Lorain
25 County Sanitarium and at Amherst Hospital. I



1 have visiting privileges at Mercy Hospital in
2 Galien, Michigan.

3 Q. When you say you practice at Allen,
4 Lorain County and Amherst, did that mean that
5 you had staff privileges, or what was the
6 extent of your relationship with those
7 hospitals?

8 A. Anesthesiology, sir.

9 Q. Have you ever had any **of** these
10 privileges suspended or revoked?

11 MR. **GOLDENSE**: Objection.

12 You may answer.

13 A. No, sir.

14 Q. Have you ever taught?

15 A. In an academic institution?

16 Q. Yes.

17 A. No, sir.

18 Q. Have **you** given lectures to medical
19 students **or** residents?

20 A. On military courtesy. Yes, sir.

21 Q. Have you ever given any lectures or
22 seminars involving the administration of
23 anesthesia or the practice of anesthesia?

24 A. Okay. To the Ohio State Society **of**
25 Anesthesiologist's. Twice in the early 1950's.

1 Q. What was the subject of each of
2 those talks? If you remember.

3 A. I don't remember, sir. This was
4 the State meetings of the Ohio Society of
5 Anesthesiologist's.

6 Q. You were asked to speak at the
7 State meeting on two separate occasions in the
8 early 1950's?

9 A. Yes, sir.

10 Q. You don't remember the subject of
11 your topic or your presentation or discussion?

12 A. No.

13 Q. Have you ever written any articles,
14 Dr. Kopsch, concerning anesthesia care or the
15 practice of anesthesiology?

16 A. No, sir.

17 Q. Have you ever prepared any papers
18 at any symposiums or seminars on the practice
19 of anesthesiology?

20 A. The two Ohio State meetings. One
21 Lorain County Medical Society meeting.

22 Q. Anything else?

23 A. Not that I recall, sir.

24 Q. What was the subject at the Lorain
25 County Medical Society meeting?



1 A. Anesthesiology in general. At that
2 time I was the only anesthesiologist in the
3 county.

4 Q. Do you remember the year of that
5 presentation?

6 A. No, sir. It would have been,
7 again, middle 1950's.

8 Q. Did you, on any of those occasions,
9 the two times before the State Society, the one
10 time before the Lorain County Medical Society,
11 discuss cardiac arrest in the care and
12 treatment of anesthesiology patients?

13 A. Only incidental to the overall
14 picture, sir.

15 Q. When you say "only incidental to
16 the overall picture," I'm not quite sure I
17 understand the scope of that kind of
18 presentation. Does that mean as a possible
19 complication in the care and treatment or the
20 care and administration of anesthesia?

21 A. One of the many possible
22 complications.

23 Q. Do you have any papers that you
24 have prepared or written concerning the
25 practice of anesthesiology that have not been

1 published but that you still have in your

2

3 A. They would be from my residency,
4 sir.

5 Q. Do you still have copies of those
6 papers?

7 A. Somewhere in the attic, yes, sir.

8 Q. Do you remember what those papers
9 addressed, the subject they addressed or the
10 topic they addressed?

11

12

13 presented that to the Oklahoma State Society of
14 Anesthesiologist's.

15 Q. Anything else?

16 A. Not that I recall, sir.

17 Q. Do you have any writings in the
18 works right now as we sit here today concerning
19 the practice of anesthesiology?

20 A. On my life and hard times. **No,**
21 sir.

22 Q. Have you conducted any research
23 since your retirement concerning the practice
24 of anesthesiology?

25 A. No, sir.



1 Q. During your practice as an
2 anesthesiologist did you conduct research on
3 any issues involving anesthesiology?

4 A. Each and every case is a research.

5 Q. Separate and apart from the care
6 and treatment of your patients, did you conduct
7 any research?

8 A. No, sir. Each and every case is an
9 item of research. How could I get through this
10 safely? How could I get a living and happy
11 patient at the end?

12 Q. I'm curious about your North
13 American Ordinance Corporation. That's the
14 name of your company, isn't it?

15 A. No, sir. KTW is the name of it.

16 Q. The actual name of the company is
17 KTW?

18 A. Inc.

19 Q. What is North American Ordinance
20 Corp. of Pontiac, Michigan?

21 A. An outfit which is making our
22 armored piercing ammunition under royalty
23 agreement.

24 Q. Are they still making --

25 A. No, sir. They never paid their



1 royalties. I'm a poorer and wiser man.

2 Where did you get the name of North
3 American Ordinance?

4 MR. GOLDENSE: Thousands for
5 defense, Doctor, but not a penny for
6 Plaintiffs. Make sure that hits the record.

7 Q. When did you form KTW company?

8 THE WITNESS: When did we form,
9 Mary?

10 MRS. KOPSCH: 1968.

11 Q. Was the KTW company formed as a
12 result of your design of the Teflon bullet?

13 A. The Teflon coated ammunition.

14 Q. The ammunition that you designed
15 being Teflon coated, was that something that
16 you, for lack *of* a better term, discovered in
17 1968?

18 A. My partners and I did.

19 Q. That's when you formed the KTW
20 company?

21 A. Yes, sir.

22 Q. How many years of research and time
23 and development did you spend prior to 1968 to
24 achieve that discovery?

25 MRS. KOPSCH: Most of it was after



1 it was incorporated.

2 A. Two years, sir.

3 Q. Now in 1968 you formed the
4 company. What type of activity did the company
5 engage in? What was the business practice of
6 the company from 1968 on?

7 A. The development, manufacture, and
8 marketing of armored piercing small arms.

9 Q. What role did you play in the
10 business practice?

11 A. Bankrolling, and helping in the
12 development, research and manufacture and
13 marketing.

14 Q. I assume the KTW company still
15 exists?

16 A. Yes, sir.

17 Q. Is still in full operation?

18 A. No, sir.

19 Q. When did it cease its full
20 operation status?

21 A. A couple of years ago, sir, when
22 the Bureau of Alcohol, Tobacco and Firearms tax
23 raised the licensing fee for manufacture and
24 sale of armored piercing ammunition from the
25 previous level of \$10 a year to a thousand per



1 year.

2 Q. So would it be fair to say from

3

5 A. No. Because we licensed North
6 American to manufacture and sell this -- when
7 did we license North American, Mary?

8 Six, eight years ago.

9 MRS. KOPSCH: When did Dan retire?
10 It was '77 or '78?

11 A. Roughly 10 years.

12 Q. So up until the time that you
13 licensed North American Ordinance Corporation
14 to produce these bullets, had your KTW company
15 been engaged in the full operation of
16 developing, marketing and manufacturing of
17 these bullets?

18 A. Yes, sir.

19 Q. How much time per week would you
20 estimate that you devoted to the KTW company?

21 A. Six hours a week.

22 Q. In 1978, or about then when the
23 license was given to North American Ordinance
24 Corporation, did you continue to expend about
25 six hours per week in the KTW company?



1 A. No, sir. We no longer had the
2 manufacturing and marketing to worry about.

3 Q. What did the company do from the
4 point when it gave the license to North
5 American Ordinance Corporation up until 1986?

6 MRS. KOPSCH: Nothing.

7 A. We sat around and read the reports
8 on the successful employment of our ammunition
9 in neutralizing criminals.

10 Q. What motivated you or prompted you
11 to develop this Teflon coated bullet?

12 A. A gun fight over in Elyria where
13 the crooks were in a car and the police .38
14 Special bullets were bouncing off the car. I
15 thought there must be a better way of getting
16 the miscreants out of the car without going
17 outside and opening the door and saying, "Will
18 *you* gentlemen please step out."

19 Q. When did the company, if ever,
20 start to produce a profit?

21 MR. GOLDENSE: Objection.

22 You may answer.

23 Q. The KTW company?

24 A. Never.

25 Q. Are you receiving any income or

1 royalties or monies as we sit here today from
2 the KTW company?

3 MR. GOLDENSE: Objection.

4 You may answer.

5 THE WITNESS: Should I?

6 A. No, sir.

7 MR. GOLDENSE: When I say don't
8 answer that question, that's when you don't
9 answer.

10 A. All right.

11 (Recess had.)

12 Q. Doctor, when you told me about your
13 residency, did you tell me what type of
14 residency you did? Was it anesthesiology?

15 A. Yes, sir. Anesthesiology.

16 Q. As either an anesthesiologist or a
17 coroner did you read or interpret radiographs?

18 A. In all three of my lives I did.
19 Anesthesiologist, coroner and general medical
20 officer in the Army.

21 Q. Other than the two presentations to
22 the Ohio State Society and the presentation to
23 the Lorain County Medical Society and the one
24 you also mentioned about the Oklahoma Society,
25 did you give any other presentations that you

1 can think of?

2 A. Yes, sir.

3 Q. What were those?

4 A. To the Ohio State Coroners
5 Association.

6 Q. When was that?

7 A. I don't know.

8 Q. Do you remember the subject?

9 A. Gunshot wounds.

10 Q. Did you give any other --

11 MRS. KOPSCH: '64.

12 A. 1964, sir.

13 Q. Did you give any other
14 presentations concerning the practice of
15 anesthesiology?

16 A. No, sir. Not that I recall now,
17 sir.

18 Q. It is my understanding that you
19 have no paper, published or unpublished, other
20 than the one that you did during your
21 residency, concerning the practice of
22 anesthesiology?

23 A. Well, the presentation to the Ohio
24 State Society required the preparation of a
25 paper since I was not speaking impromptu.



1 Q. I assume you don't have copies of
2 those papers as we sit here today?

3 A. Not at my fingertips, sir.

4 Q. That's something you could get if
5 you had to?

6 A. Yes, sir. It will require
7 straightening up the attic.

8 Q. Would you also then be in a
9 position, if you straighten up the attic, to
10 maybe get a copy of the paper that you
11 presented to the Lorain County Medical Society
12 and Oklahoma group?

13 A. Perhaps.

14 Q. Other than the papers we've
15 identified, are there any other papers that
16 you've prepared or any other articles that you
17 have written?

18 A. Yes, sir.

19 Q. Do those pertain to the practice of
20 anesthesiology?

21 A. No, sir.

22 Q. In so far as we're talking about
23 the practice of anesthesiology, have I
24 exhausted the list of presentations and
25 publications and written works?



1 A. I believe so, sir.

2 Q. Doctor, do you know Dr. Tom
3 Brilliar?

4 A. No, sir.

5 Q. Do you know Dr. Young Hahn?

6 A. No, sir.

7 Q. Do you know CRNA Judy Daus?

8 A. No.

9 Q. And Dr. El Hamshari?

10 A. No, sir.

11 Q. Have you used CRNA's, certified
12 nurse anesthetists, in the administration of
13 general anesthesia?

14 A. Yes, sir.

15 Q. Would you agree that they are
16 competent to administer general anesthesia
17 under supervision of a physician?

18 A. Yes.

19 Q. Have you used the CRNA's during
20 gynecological procedures such as those
21 undergone by Mary Lou Brown?

22 A. Yes, sir.

23 Q. And in those cases where you have
24 used CRNA's did they administer the general
25 anesthesia in those cases under the supervision

1 of a physician?

2 A. Yes, sir.

3 Q. Could we agree, Doctor, that you
4 don't have any criticisms concerning the
5 decision to use a CRNA in Mary Lou Brown's
6 case?

7 A. Yes.

8 Q. Yes. We can agree?

9 A. Yes, sir.

10 Q. Doctor, who do you consider to be
11 the primary authority in the area of
12 anesthesiology?

13 A. Myself.

14 Q. Anyone else? I think you'll agree,
15 Doctor, you're not the only expert in the area,
16 correct?

17 A. Correct, sir.

18 Q. Do you know of anyone else who you
19 would recognize as being an authority or expert
20 in the area of anesthesiology?

21 MR. GOLDENSE: Objection.

22 You may answer.

23 A. Yes, sir.

24 Q. Who would that be?

25 A. John Snow. S N O W. He was the

1 first doctor to specialize in anesthesia, 1806.

2 (Discussion off the record.)

3 Q. Are there any present day
4 practicing anesthesiologists that you recognize
5 to be a primary authority or expert in the
6 area?

7 A. Experts? Yes. There is no primary
8 authority, sir.

9 Q. That's fair enough. Who would the
10 experts be that you recognize in the field of
11 anesthesiology?

12 A. John Adriani. A D R I A N I.

13 Q. Where does he practice?

14 A. Tulane. T U L A N E.

15 Q. Do you have any professional or
16 social relationship with him?

17 A. No, sir. His texts are widely
18 accepted.

19 Q. Do you recognize his texts to be
20 authoritative in the field of anesthesiology?

21 A. I recognize them to be widely
22 accepted, sir.

23 Q. Do you recognize any text to be
24 authoritative in the area of anesthesiology?

25 A. No, sir. Because in every one

1 there is both good and bad.

2 Q. Have you ever heard of Dr. Robert
3 Dripps?

4 A. Yes, sir.

5 Q. Do you recognize him to **be** an
6 expert in the area of anesthesiology?

7 A. That's right.

8 Q. And Dr. Eckenhoff?

9 A. I recognize him also as an expert,
10 sure.

11 Q. Leroy Vandam?

12 A. He is a recognized expert as well.

13 Q. Have you heard of the text
14 Introduction of Anesthesia, The Principal of
15 Safe Practice, 6th edition?

16 A. By whom?

17 Q. Dripps, Eckenhoff and Vandam?

18 A. Yes.

19 Q. Would you also agree that is a
20 widely accepted text in the area of
21 anesthesiology?

22 A. It is a widely used text in the
23 field of anesthesiology, sir.

24 Q. Have you ever used that text?

25 A. No, sir.

1 Q. What texts have you used, Doctor?

2 A. Earlier editions of that same book.

3 Q. Assuming that you would still be
4 practicing in medicine today in the field of
5 anesthesiology, would the 6th edition be one
6 that you would feel comfortable referring to in
7 the care and treatment of patients for
8 anesthesiology purposes?

9 A. Yes, sir.

10 Q. When you were in medical school
11 what book did you use to learn principles of
12 anesthesiology?

13 A. We had no textbooks in medical
14 school. We had a few lectures.

15 Q. Did you have a text in your
16 residency?

17 A. A shelf full of them, sir.

18 Q. Do you still have those texts?

19 A. Yes, sir.

20 Q. Are those texts that you used
21 during your day-to-day practice of
22 anesthesiology?

23 A. **Not** day-to-day.

24 Q. In the sense of having them
25 available for reference if necessary?

1 A. If necessary, sir.

2 Q. On occasion you would feel
3 comfortable referring to those texts if you
4 needed to?

5 A. Yes, sir.

6 Q. Could you tell me the names of
7 those texts?

8 A. Adriani had several texts.
9 Dr. Mushin has several texts on it.

10 Q. Dr. Adriani?

11 A. Yes, sir. Dr. Mushin has several
12 texts out. Who is the guy up in Montreal?
13 Digby Leigh, in pediatric anesthesia.

14 I had Anesthesiology, the monthly
15 journal, from its inception in the 1940's and
16 would look up pertinent articles in that.

17 Q. That was a widely accepted journal?

18 A. Journal. Monthly journal in
19 anesthesia and analgesia. I had, back to 1928,
20 another medical journal.

21 Q. Both those journals are widely
22 accepted in the field of anesthesiology?

23 A. They're the two generally used
24 American journals.

25 Q. And they're the ones you used?



1 A. Yes. For more current reference
2 than any text book could encompass, since the
3 texts are always several years behind the
4 journals.

5 Q. Do you no longer subscribe to those
6 puplications?

7 A. No longer.

8 Q. Since your retirement?

9 A. When I sold my back issues to
10 Harvard Medical School.

11 Q. Are you aware of any specific
12 articles **or** portions of texts that you find
13 instructive or helpful to understanding the
14 relationship between the administration **of**
15 general anesthesia and the complication of
16 cardiac arrest?

17 A. Specifically article or text?
18 Okay. Dr. Beecher, B E E C H E R, from Harvard
19 several years ago published a monumental study
20 on the instance⁵ of death during anesthesia.

21 Q. Any other articles that you can
22 recall?

23 A. Since the Beecher study other
24 smaller studies have been done. I don't recall
25 the authors of those smaller studies. I read

1 them.

2 Q. I take it you've read those
3 articles?

4 A. I read Dr. Beecher's several
5 antecedent articles and his book and the
6 subsequent surveys of cardiac arrest as well,
7 sir.

8 Q. Did you find those instructive?

9 A. Yes, sir.

10 Q. Did you find them helpful to your
11 practice of anesthesiology?

12 A. No, sir.

13 Q. Why not?

14 A. Because they're dealing quite often
15 with what to me was stupid errors of equipment
16 failure, of esophageal intubation, of drug
17 overdoses or mistakes. And without bragging,
18 I'm methodical and relatively unshakeable and I
19 did not make stupid mistakes. I detected
20 esophageal intubation in almost all cases. And
21 I did not make overdoses or make errors in drug
22 administration.

23 Q. In the cases where you did not
24 detect esophageal intubation, could you explain
25 to me why you did not?



1 A. Yes. One case stands out in my
2 mind and that was an old drunk who ran into a
3 telephone pole. It just happened to be growing
4 in the middle of West Erie Avenue. When he
5 came in with extensive abdominal injuries, I
6 put him to sleep, intubated him, and his breath
7 damn near knocked me over. So I only took the
8 one quick look with my laryngoscope and damned
9 if I hadn't done an esophageal intubation on
10 him. I didn't realize it until he died after
11 an hour or an hour and-a-half of surgery.

12 In every other case that I know of
13 where I intubated the esophagus I picked it up
14 in quick time, since they weren't all drunk by
15 a long shot, and their breaths did not knock me
16 over.

17 Q. Do you consider that case, where
18 you did not pick up the esophageal intubation,
19 to be a deviation from the standard of case?

20 MR. GOLDENSE: Objection.

21 You may answer.

22 A. I sure didn't make a habit of it.

23 Q. Does that mean yes?

24 A. Yes. It was a deviation from the
25 standard of care, sir.

1 MR. GOLDENSE: Objection and move
2 to strike.

3 Q. Is it your testimony that the
4 reason you didn't pick up the esophageal
5 intubation in that one case was because you
6 didn't properly monitor the breath sounds of
7 the patient?

8 A. No, sir.

9 Q. Why didn't you pick it up?

10 A. Because monitoring the breath
11 sounds of the patient is by no means
12 conclusive. This had been brought out in study
13 after study and I've seen it with my own eyes
14 that when you intubate an esophagus a surgeon
15 will often take the laryngoscope and -- yes,
16 yes, that's right down there because you could
17 hear breath sounds. When the esophagus is
18 intubated one cannot rely on auscultation.

19 Q. What does one need **to** rely **on**,
20 then, to determine whether there is proper
21 intubation?

22 A. Clinical judgment and clinical
23 capnography.

24 Q. What is that?

25 A. Capnography is the utilization of a



1

1 presently available instrument called a
2 capnograph, which follows expiratory carbon
3 dioxide. When one is intubated in the
4 esophagus there is little or no expired carbon
5 dioxide and within a breath or two one detects
6 by a waive form of expired carbon dioxide that
7 things are not as they should be. You're not
8 connected with the lungs. You're connected
9 with the esophagus and stomach.

10 Q. When did the capnography instrument
11 become available and widely accepted in the
12 area of anesthesiology?

13 A. I think it's been available perhaps
14 five years and in wide use for three years.
15 It's of this order of magnitude.

16 Q. I take it before its use, Doctor,
17 that people administered general anesthesia
18 without the use of the capnograph?

19 A. Yes, sir. All these years. Then
20 we had to rely on our brains because the
21 physical findings were deceptive. You could
22 get breath sounds that will fool you every
23 doggone time with esophageal intubation.

24 Q. Would it have been the deviation
25 from the standard of care in 1985 to proceed in



1 the general administration of an anesthesia
2 without the use of a capnograph?

3 A. No, sir.

4 Q. Referring to the other case where
5 you stated that you always identified that you
6 had an esophageal intubation, is it your
7 testimony that the way you identified that in
8 the past was based on your clinical judgment
9 alone?

10 A. Yes, sir.

11 Q. In arriving at that judgment what
12 steps did you take to determine whether
13 intubation had been properly performed? In
14 other words, did you listen for bilateral
15 breath sounds?

16 A. No, sir.

17 Q. What did you do?

18 A. I looked to see whether the chest
19 was expanding, rising and going down, whether
20 the intercostal space would widen with
21 inspiration, expiration, and I palpated the
22 stomach, the abdomen over the stomach.

23 MR. BUCK: I didn't get the second
24 one.

25 THE WITNESS: The widening and



1

2 Q. Other than those three things that
3 you just identified, looking for chest
4 expansion, looking at the intercostal spaces
5 and palpating the abdomen, did you do anything

6

7

8 A. Look again with the laryngoscope.

9 Q. Anything else?

10 A. No, sir.

11 Q. Would you agree, Doctor, that it is
12 more difficult to identify chest expansion and
13 widening of the intercostal spaces in a fat
14 person?

15 A. No, sir.

16 Q. So you would expect to see the same
17 degree of chest expansion and the same amount
18 of widening in the intercostal space in a fat
19 person as you would a thin person?

20 A. Okay. You said degree. Yes. In
21 the intercostal spaces I'm not seeing them
22 widen. I'm feeling them widen. And no matter
23 how fat the guy is I could still feel his
24 intercostal spaces.

25 Q. Before you intubate the patient I



1 assume you administer anesthetic drugs?

2 A. In most cases. There is such a
3 thing as awake intubation, which one sometimes
4 has to do.

5 Q. Let's talk about the other kind.
6 What is that called? Asleep intubation?

7 A. That's a good term for it.

8 Q. From the moment you begin to
9 administer anesthetic drugs until the moment
10 when the patient has been intubated, about how
11 long does that process take for general
12 anesthesia?

13 A. Several minutes.

14 Q. Would you expect it to take more
15 than four minutes?

16 A. It depends.

17 Q. I understand --

18 A. It depends. During a crash
19 induction it would take less than four
20 minutes. With the leisurely induction it may
21 very well take more.

22 Q. Assuming there were no
23 complications, is there any reason to believe
24 it would take more than four minutes?

25 A. It depends.

1 Q. Is there an outside limit where you
2 could say that it couldn't take any longer,
3 within a certain period of time, to properly
4 intubate the patient?

5 A. It depends.

6 Q. It could in some instances take 15
7 minutes to intubate a patient without
8 complication?

9 A. It could take longer. Okay. Now
10 you said --

11 Q. Without complication, from the
12 moment you begin to administer the anesthetic
13 agents.

14 A. It's taken me an hour or more.

15 Q. Without complication?

16 A. In difficult intubation cases.

17 Q. How do you define a difficult
18 intubation case?

19 A. One that I can't get the tube down.

20 Q. Would you consider that to be a
21 case with complications?

22 A. Yes. If it's awfully complicated,
23 I'm wondering what I'm doing there when I could
24 be driving a nitroglycerin truck or doing
25 something that's safe.



1 Q. Assuming, Doctor, that you had no
2 problem intubating the patient from the moment
3 you start to the moment when you place the tube
4 in the trachea?

5 A. What you're asking is is four
6 minutes realistic? Yes, sir.

7 MR. GOLDENSE: I'm sorry the four
8 minutes is measured from the time that the
9 drugs have commenced to be administered until
10 the tube is placed?

11 MR. LICATA: Right. From the
12 moment the anesthesia starts its job to the
13 point where the tube is placed in the throat.

14 A. Yes. In a crash induction where a
15 guy has a full stomach or he is bleeding, with
16 a crash induction it would be less.

17 Q. We don't have that in this case in
18 Mary Lou Brown's case?

19 A. Oh. No, sir. No, sir.

20 Q. What did Mr. Goldense ask you to do
21 in this case, in the case of Mary Lou Brown?

22 A. He asked me to review her hospital
23 chart and the depositions of Miss Daus. Dr.
24 Hahn. Dr. EL Hamshari and Dr. Gerber's
25 certificate of death.



1 Q. Did you review the first or second
2 deposition of Dr. El Hamshari?

3 A. Only this morning have I become
4 aware there was a second deposition of Dr. **El**
5 Hamshari. I've not seen it.

6 Q. As of this moment you have only
7 reviewed the first deposition, but not the
8 second?

9 A. Correct, sir.

10 Q. I see you have in front of you a
11 black notebook and also a transcription which
12 appears to be a report dated March 9; is that
13 correct?

14 A. March 9, 1988, sir.

15 Q. May I see the black book?

16 A. Certainly.

17 Q. Was this black book prepared **for**
18 you or did you put everything **in** the notebook?

19 A. I carefully punched everything,
20 filed and collated it.

21 Q. Doctor, the first thing I see in
22 your notebook is an article that says **ASA** 87
23 annual meeting titled, Majority of Respiratory
24 Complications are Preventable. Did you include
25 this article in this notebook?

1 A. Yes, sir.

2 Q. Why did you use that?

3 A. May I look at it?

4 Because I found a pertinent
5 statement in the national meeting that the
6 standard technique of bilateral lung
7 auscultation for esophageal intubation is
8 potentially dangerous, and that seven percent
9 of the respiratory mishap cases were due to
10 esophageal intubation, and in the esophageal
11 intubation 76 percent died.

12 Q. You found this article to be
13 relevant to your review of this case?

14 A. Of the case of Miss Brown, yes,
15 sir.

16 Q. Did you rely on this article in
17 reaching your opinion?

18 A. No, sir.

19 Q. Does this article advocate the use
20 of capnography?

21 A. I believe.

22 Q. When they refer to the standard
23 technique of bilateral lung auscultation for
24 esophageal intubation, is that referencing any
25 prior standard of care for determining whether

1 the tube has been placed in the trachea as
2 opposed to esophagus?

3 MR. GOLDENSE: Objection.

4 You may answer.

5 A. Not prior. But continuing.

6 Q. That's still a standard of care?

7 MR. GOLDENSE: Objection.

8 A. It's not a standard. It's an index
9 which is widely used which I said was not
10 reliable based on my own experience.

11 Q. I understand that. But someone who
12 does use the standard technique of bilateral
13 lung auscultation --

14 A. Will be deceived, as I myself have
15 been.

16 Q. That's not my question. My
17 question is: Someone who uses the standard
18 technique of bilateral lung auscultation for
19 esophageal intubation is not deviating from
20 acceptable standards of anesthetic care, are
21 they?

22 MR. GOLDENSE: Objection.

23 You may answer.

24 A. It is a widely used barometer. It
25 can be deceptive and fatally so.

1 Q. I understand that it could be
2 deceptive. But is it or is it not an accepted
3 practice in the field of anesthesiology to use
4 that standard technique?

5 A. It is an accepted technique.

6 Q. Even as we sit here today?

7 A. Even as we sit here today.

8 Q. Doctor, you have highlighted that
9 seven percent of the cases involving
10 respiratory mishap were related to esophageal
11 intubation, correct?

12 A. Yes, sir.

13 Q. In that same paragraph does it not
14 also indicate that eight percent were due to
15 other respiratory complications?

16 A. Yes, sir.

17 Q. There are more cases with
18 complications associated with other respiratory
19 complications than there are with complications
20 associated with esophageal intubation, correct?

21 **THE WITNESS:** Should I refer to
22 this?

23 A. You can't go through this.

24 Q. Can't go through what?

25 **MR. GOLDENSE:** Are you relying on



1 anything to refresh your recollection? He's
2 allowed to see anything you use as a basis for
3 your testimony today.

4 Q. You have a file of information
5 there, Doctor, may I ask you what is in that
6 file?

7 A. Part of it are other letters from
8 Mr. Goldense. My response. Okay.

9 Here's a study. These folks were
10 in Harvard, sir. This is another widely quoted
11 study. Part of the ASA findings were based on
12 this. The Harvard study indicated misplaced
13 endotracheal tubes accounted for an overall 3.6
14 percent.

15 Now here I have a study, table 2,
16 cardiac arrest due to anesthesia, Journal
17 American Medical Association, 1985.

18 Here, recognized esophageal
19 intubation accounted for 14.8 percent of the
20 anesthetic cardiac arrests. So these divergent
21 figures are what --

22 Q. Could I see?

23 A. I didn't refer to the others.

24 Q. I'm entitled to see what you have,
25 Doctor. I'd like to see it please.

1 MR. GOLDENSE: Are you referring to
2 any of that stuff?

3 Q. You reviewed that material, didn't
4 you, Doctor, as part of this case?

5 A. These other items?

6 Q. Yes.

7 A. They assisted me in forming an
8 opinion.

9 MR. GOLDENSE: Then he's entitled
10 to see them.

11 Q. Then I'd like to see them, please.

12 A. Certainly. But the divergence
13 between those percentages is typical of the
14 medical literature.

15 (Discussion off the record.)

16 Q. This brochure, Doctor, where did
17 you get that?

18 A. From the BOC Group.

19 Q. What is BOC Group?

20 A. A British Oxygen -- what is known
21 as Ohmeda, O H M E D A, which used to be Ohio
22 Chemical Groups which makes the Heibrink
23 anesthesia machines. H E I B R I N K. Which
24 are the machines I used through the years.
25 This was a brochure titled, "A report on

1 proactive management of anesthesia safety
2 through the use of anesthesia system preventive
3 and warning devices."

4 What I was quoting was abstracted
5 from Keenan & Boyan. Cardiac arrests due to
6 anesthesia. Journal American Medical
7 Association, April 26, 1985.

8 Q. Now, Doctor, if I wanted to get a
9 copy of this brochure, what would I have to
10 do? Who would I contact?

11 A. Ohmeda.

12 MR. BUCK: Why don't you have the
13 court reporter make copies **of** these and save a
14 lot of time.

15 MR. LICATA: I agree.

16 MR. GOLDENSE: Yes. It's all right
17 with me.

18 (Discussion off the record.)

19 Q. Doctor, you've handed me several
20 articles --

21 A. Under duress.

22 Q. -- with different titles. One is
23 Risk Modification in Anesthesiology. The other
24 is Deaths During General Anesthesia. The other
25 is a viewpoint in some article. Another is

1 Managing the Difficult Tracheal Intubation and

2

3

4

5

6

7 Equipment, et cetera?

8 A. Yes, sir.

9 Q. These are going to be handed to the
10 court reporter so she can copy them for us.

11 A. Do you want this one too?

12 Q. Yes. Please. That is the article
13 in your book called Majority of Respiratory
14 Complications are Preventable. These were
15 articles that you reviewed in arriving at your
16 opinion in this case, correct?

17 Have you reviewed that information
18 that you just handed to me in arriving at your
19 opinion in this case?

20 A. No, sir.

21 Q. You didn't review this information?

22 A. After I formed an opinion. Not
23 before.

24 Q. I understand. But you still used
25 it as the basis for your opinion even after the



1 fact, correct?

2 A. No, sir. I didn't use those as a
3 basis for my opinion.

4 Q. What did you use them for?

5 A. To give you some grip on the
6 national scope of the problem of death in
7 cardiac arrest during anesthesia.

8 Q. But you did review them as part of
9 your involvement with this case as an expert?

10 A. Yes, sir. I did not use them in
11 forming my opinion.

12 Q. The court reporter is going to make
13 copies of them for us and return them to you.
14 All right?

15 A. Yes, sir.

16 (Discussion off the record.)

17 Q. Don't put those away.

18 MR. GOLDENSE: You are not getting
19 that letter. I'll let you read it. That's all
20 you get.

21 MR. LICATA: We should have it
22 marked so we can fight about it in court.

23 Q. May I see that letter, please.

24 A. The one I just took?

25 Q. Yes.

1 Doctor, referring to a letter that
2 was directed to you on December 6, 1985 from
3 Mr. Goldense, you received that letter, did you
4 not?

5 MR. GOLDENSE: Let me interrupt.
6 For the record, we're referring to a letter on
7 my stationary addressed to Dr. Kopsch dated
8 December 6, 1985. It's my policy in this
9 litigation that it's a work product of my
10 office in anticipation of litigation, aware
11 that this claim was pending.

12 I've been kind enough to show it to
13 defense counsel. It is absolutely a privilege
14 and has no place in this case. So as to any
15 questions relative to this correspondence,
16 please show **my** continuing objection.

17 Q. Doctor, you received that letter,
18 correct?

19 A. Yes, sir.

20 Q. And the letter sets forth various
21 facts relative to this case, correct?

22 A. Yes, sir.

23 Q. Did you look at that letter, and in
24 conjunction with other documents, review it as
25 part of your review for this case?



1 A. Yes, sir.

2 Q. Doctor, I'm also going to show you
3 what appears to be a copy of a letter to

6 to this document that Mr. Licata identified, it

9 MR. LICATA: Not his signature.

10 MR. GOLDENSE: Fair enough. Again
11 I assert an absolute work product privilege
12 with respect to this document. I will allow
13 Mr. Licata to ask his questions about it. But
14 please show my continuing objection to any
15 questions related to this correspondence.

16 Q. Doctor, this letter here -- first
17 of all, is the date correct, December 13, 1985,
18 is that the date that you did in fact have the
19 letter prepared?

20 A. That I prepared the letter, yes,
21 sir.

22 Q. Was that in response to
23 Mr. Goldense's December 6, 1985 correspondence?

24 A. I believe so, sir.

25 Q. Does this set forth your

1 preliminary opinions reached and the bases for
2 those preliminary opinions?

3 A. Yes, sir.

4 Q. Doctor, showing you what's dated as
5 November 24, 1987, a letter to you from Mr.
6 Goldense. I note on the back of that letter
7 there is what appears to be a carbon copy of a
8 letter or two letters, in fact, prepared by
9 you, correct?

10 MR. GOLDENSE: For the same reasons
11 with respect to the two previous items of
12 correspondence identified from the Doctor's
13 notebook, I assert a privilege to the front and
14 back of this letter on my stationary, November
15 24, 1987, with a continuing objection to this
16 document.

17 Go ahead and answer his questions.

18 Q. I note here that you have sent to
19 Mr. Goldense two separate responses, one dated
20 November 26, 1987 and another dated November
21 27, 1987; is that correct?

22 A. Yes, sir.

23 Q. In those responses you were further
24 supplementing your opinion concerning the
25 anesthetic care and treatment rendered to Mary



1 Lou Brown; are you not?

2 A. Yes, sir.

3 Q. Showing you what's been dated March
4 7, 1988, that is also a letter to you from
5 Mr. Goldense; is it not?

6 A. Yes, sir.

7 Q. On the back of this letter, again,
8 is what appears to be a carbon copy itemization
9 of your fees for the services rendered on this
10 case up through March 9, 1988, correct?

11 A. Yes, sir.

12 Q. You have itemized those fees based
13 on your per hour rate of \$125 per hour?

14 A. Yes, sir.

15 Q. I have on here that on March 7 you
16 expended two hours, March 8 two hours and March
17 9 two hours. Would that be correct?

18 A. Yes, sir.

19 Q. The total as of March 9 you
20 expended on this case was six hours; is that
21 correct?

22 A. Yes, sir.

23 Q. Showing you what's been dated as
24 March 15, 1988 --

25 MR. GOLDENSE: Note my continuing

1 objection to this document for the same reasons
2 as the previous documents.

3 Q. This is a letter to Mr. Goldense.
4 Over your signature is a copy -- is it a copy?

5 A. This is a carbon copy of a letter
6 to Mr. Goldense dated 15 March '88.

7 Q. This letter sets forth additional
8 information concerning your opinions in this
9 case and the underlying bases for those
10 opinions; does it not?

11 A. Only on the sinografin.

12 Q. But that is part of your review for
13 this case, correct?

14 A. Yes, sir.

15 Q. I also note in the upper right hand
16 corner you have two hours. Does that mean you
17 expended an additional two hours **on** this case
18
19
20

21 Q. That would be an additional two
22 hours from your prior calculation?

23 A. I believe so, sir.

24 Q. Then the last written -- this **is**
25 handwritten. Maybe you could identify that **for**



1 me as well?

2 A. Okay. These are my handwritten
3 notes when I first went over Miss Brown's
4 chart.

5 Q. Those are notes that you took based
6 on your review of her chart and other
7 information forwarded to you by Mr. Goldense?

8 A. Yes, sir. This would have been my
9 initial finding back in '87.

10 Q. And that's in handwritten form,
11 correct?

12 A. Yes, sir.

13 Q. It's on the back of what appears to
14 be stationary for the Army U.S. Service Clubs,
15 correct?

16 A. From Fort Lee, Virginia.

17 MR. LICATA: I would ask that those
18 be copied and produced for us.

19 MR. GOLDENSE: You get a court
20 order.

21 MR. LICATA: All right. We will.

22 Q. Doctor, other than the literature
23 that's been handed over to the court reporter
24 and the records that we've identified here as
25 being hospital records and the various



1 deposition transcripts and the correspondence
2 or the information set forth in the
3 correspondence, is there anything else that you
4 have either prepared or reviewed in this case?

5 A. My experience.

6 Q. So you've relied on your
7 experience. I understand that. Is there
8 anything else?

9 A. No, sir

10 - - - - -

11 (Thereupon, Defendants' Deposition
12 Exhibits 1 and 2 were mark'd for
13 purposes of identification.)

14 - - - - -

15 Q. Doctor, I'm showing you what's been
16 marked as Defendant's Exhibit 1. This is a
17 **copy** of your statement in this case; is it not?

18 A. Yes, sir.

19 Q. This statement embodies your
20 opinion as it pertains to the medical care and
21 treatment including the anesthesia management
22 **of** Mary Lou Brown in this case, correct?

23 A. This was based on the information I
24 had at that time, sir.

25 Q. Since this report were you given



1 any other information, any additional
2 information?

3 A. Either at or shortly after that
4 time I went over Dr. El Hamshari's deposition.
5 I had not been over it in detail at the time of
6 this deposition.

7 Q. Showing you the letter dated March
8 7, 1988, Mr. Goldense indicates in that letter
9 that he photocopied and provided the transcript
10 of Dr. El Hamshari as well as Dr. Hahn.

11 A. May I submit to you, sir, that the
12 deposition was March 9.

13 Q. I understand. That's the point of
14 my question. Am I to assume that because Mr.
15 Goldense forwarded you that transcript on the
16 7th that you were unable to review both of
17 those transcripts, both Dr. El Hamshari's and
18 Dr. Hahn's, before you rendered this opinion,
19 this being Defendants' Exhibit 1?

20 A. Sir, in my letter to Mr. Goldense I
21 referred to the fact that I had gone over
22 Dr. El Hamshari's deposition.

23 MR. GOLDENSE: You're reference to
24 having looked at, this is in the first
25 paragraph of Defendants' Exhibit 1.



1 A. Thank you, sir. I obviously had
2 not had time to go over it in detail since he

4 deposition is dated 9 March.

5 Q. But you did have an opportunity to
6 review both Dr. Hahn's deposition and Dr. El
7 Hamshari's deposition prior to rendering this
8 statement, correct?

9 A. I am saying I did. Obviously, it
10 was only, at best, a cursory examination.

11 Q. Since then you've had an
12 opportunity to review those depositions in more
13 detail?

14 A. Yes, sir.

15 Q. How much additional time did you
16 spend in reviewing those depositions since that
17 time?

18 A. Since which time?

19 Q. Since the statement of March 9,
20 1988?

21 A. Okay. In preparation for this, I
22 think earlier in my testimony I mentioned on 10
23 March '89 I spent two hours reviewing this. On
24 13 March '89 one hour.

25 Q. And those reviews include these

1 deposition transcripts?

2 A. Yes, sir.

3 Q. Since you have reviewed those
4 deposition transcripts, do you have any
5 opinions that are different than those set
6 forth in this exhibit, Exhibit 1?

7 A. Dated March 9, '88?

8 Q. Correct.

9 A. Yes, sir.

10 Q. What additional opinions do you
11 have?

12 A. Not additional, but in place of in
13 my deposition of March 9, '88 --

14 MR. GOLDENSE: Excuse me, Doctor,
15 that's not a deposition. And it's going to be
16 misleading to all of us. Let's call this your
17 statement.

18 A deposition implies that both
19 sides of the case were there and were
20 represented and there was an opportunity for
21 objection much like we're doing today. But
22 you'll recall on this day nobody else was
23 here. It was just you and I and the court
24 reporter. We'll call it a statement,
25 Defendants' Exhibit 1.

1 Q. So the statement that you gave on
2 March 9, 1988?

3 A. Deals at length with the
4 probability of equipment failure.

5 Q. And?

6 A. Later review in more detail does
7 not rule out equipment failure in my mind, but
8 in light of Dr. Hamshari's deposition, makes
9 esophageal intubation the more likely proximate
10 cause, the immediate cause **of** Miss Brown's
11 cardiac arrest.

12 Q. So the opinions rendered in your
13 statement which include the possibility of
14 equipment failure are a number of
15 possibilities, but are not the more likely than
16 not cause of her death. Is that your opinion?

17 A. In my present opinion that is
18 correct, sir.

19 Q. Would it be fair to say, Doctor,
20 that you cannot, to a reasonable degree of
21 medical certainty, opine that equipment failure
22 was the proximate cause of Mary Lou Brown's
23 death in this case?

24 A. That is correct, sir.

25 Q. Other than the substitution of your



1 opinion that esophageal intubation was more
2 likely than not the cause of her death, do you
3 have any additional opinions that you developed
4 since this statement?

5 A. No, sir.

6 Q. Doctor, this patient was admitted
7 to Booth Memorial Hospital on May 6, 1985,
8 correct?

9 If you need to refer to the
10 records, I have marked the chart as Exhibit 2.
11 You could look at that or your folder. Either
12 one is fine.

13 MR. GOLDENSE: The problem with
14 looking at **your** notes is he's got this marked
15 as an exhibit. The only question before you
16 is, was the date of her admission 5-6-85.

17 For the record he's referring to
18 Defendant's Exhibit 2.

19 A. Yes, sir.

20 Q. On admission it was noted, was it
21 not, that the patient had previously good
22 health except for hypertension?

23 A. Yes, sir.

24 Q. And that she had apparent good
25 health, correct?

1 A. Yes, sir.

2 Q. Her classification for purposes of
3 anesthesia was ASA 2, correct?

4 A. I believe so.

5 Q. Do you have any criticisms of her
6 classification as being ASA 2?

7 MR. BUCK: ASA 2?

8 A. Capitol A, capitol S, capitol A.
9 She would have been either two or three, sir.
10 Should I elucidate?

11 Q. Please.

12 A. She has two complicating
13 conditions. One is her hypertension. The
14 second is her obesity.

15 Q. Would you agree, Doctor, that
16 because she could have been either an ASA 2 or
17 ASA 3 that it **was** not a departure from the
18 acceptable standard of anesthesia practice to
19 classify her as an ASA 2?

20 A. Yes, sir.

21 Q. Yes. You would agree?

22 A. Yes, sir. I agree.

23 Q. You note in your report, Doctor,
24 and I assume you took this from the report,
25 that she was recovering from upper respiratory

1 infection?

2 A. Are your pages numbered, sir?

3 Q. Do you need your opinion?

4 A. Page 10 of the hospital chart
5 states she has, quote, "slight cold for years,"
6 unquote, "runny eyes; upper resp congestion."

7 Q. Is upper respiratory congestion the
8 same as an upper respiratory infection?

9 A. It includes that.

10 Q. It's your opinion that the entry on
11 the chart that she had upper respiratory
12 congestion implied or inferred that she had an
13 upper respiratory infection from which she had
14 recovered?

15 A. That is her statement. At no place
16 is it borne out by the physical findings.

17 Q. Doctor, is there anywhere in the
18 chart that you can find that Mary Lou Brown was
19 noted as having an upper respiratory infection
20 to which she referred?

21 A. No. Page 11 is on physical
22 findings and the HNT are circled as normal.
23 This is her history. There are no
24 corroborating findings.

25 Q. Your statement that she was

1 recovering from an upper respiratory infection
2 at lines 19 and 20 of page 1 is incorrect?

3 A. No. This is based on her
4 statement,

5 Q. Where, in the records, does she
6 state that she was recovering from an upper
7 respiratory infection?

8 A. I don't find it. That would be my
9 inference from her statement to the admitting
10 clerk.

11 Q. From her statement that she had a
12 slight cold for years and upper respiratory
13 congestion, you inferred that she was
14 recovering from an upper respiratory infection?

15 A. It would seem that way.

16 Q. On the bottom of page 10 on the
17 chart --

18 A. This is the secondary numbering?

19 Q. Correct. In the lower right-hand
20 corner it lists medications. Unless I cannot
21 read those, which I will agree it's a problem,
22 it looks like Corgard, Lozol and Slo-K?

23 A. What is your question?

24 Q. My question is: Would those
25 medications present any type of a problem as

1 far as determining the anesthesia to administer
2 to a patient?

3 A. Some folks think they do and some
4 folks think they don't.

5 Q. What is your opinion?

6 A. That they don't.

7 Q. Now, Doctor, the procedure or the
8 decision to administer general anesthesia in
9 this case was not contraindicated, was it?

10 A. No, sir.

11 Q. It would have been within the
12 acceptable standard of anesthesia practice to
13 ultimately administer general anesthesia in
14 this case?

15 A. Yes, sir.

16 Q. And you don't find any fault with
17 the decision to proceed with general
18 anesthesia, do you?

19 A. **No.**

20 Q. Doctor, would you agree that the
21 ultimate decision of whether to proceed with
22 the surgical operation rests with the surgeon
23 himself or herself?

24 A. Yes, sir.

25 Q. In your report at the bottom of



1 page 1 at the top of page 2 you state that
2 there was no premedication?

3 A. Okay.

4 Q. I assume you're referring to
5 presurgery medication for anesthesia purposes?

6 A. That would be premedication before
7 she entered the surgical suite.

8 Q. Would the premedication that you've
9 identified in your report relate to anesthesia
10 or some other aspect of her care and treatment
11 during her surgery?

12 A. I would only be commenting on the
13 pre-anesthetic medication.

14 Q. Doctor, would you agree that it is
15 not uncommon to administer general anesthesia
16 **on** a patient like Mary Lou Brown for procedures
17 that she underwent without administering
18 presurgical medication?

19 A. Yes, sir. Because this is in the
20 category of outpatient anesthesia.

21 Q. It wouldn't be a deviation from the
22 standards of acceptable care in anesthesia
23 practice to proceed without administering
24 presurgery medication?

25 A. Correct.



1 Q. Doctor, you are going to have to
2 help me out a little bit here. I don't really
3 know a whole lot about these various drugs that
4 were administered. You've identified from the
5 record that anesthesia commenced at 11:45 a.m.,
6 which means that's when they first commenced
7 introducing medications for anesthetic
8 purposes, correct?

9 A. Yes, sir.

10 Q. The first thing you've identified
11 in your statement is intravenous atropine
12 sulfate of four milligrams?

13 A. Point four.

14 Q. Point four. Thank you. What is
15 the purpose of administering atropine sulfate?

16 A. To dry up the nasal, salivary and
17 pulmonary secretions, and to at least partially
18 block the sympathetic -- I beg your pardon --
19 the parasympathetic impulse to the heart, the
20 slowing of the heart, which should be
21 incidental to death to administer both, if you
22 will, in a couple of minutes.

23 Q. What are the side effects of
24 atropine sulfate?

25 A. Flushing, dryness, excessive

1 dryness if you give too much, and tachycardia.

2 Q. One of the side effects could
3 include speeding up the heart? In other words,
4 the drug itself would speed up the heart?

5 A. That wouldn't be a side effect.
6 That would be one of the primary effects.

7 Q. That would be a direct effect of
8 the drug itself?

9 A. Yes.

10 Q. Would you agree, Doctor, that point
11 four milligrams was within the recommended
12 range for this person?

13 A. She is how heavy?

14 MR. BUCK: 5'5" 240 you have in
15 your report.

16 A. Yes. For a 240 pound lady who had
17 been on antihypertensive medication this would
18 be the lower range of atropine in which one
19 would use.

20 Q. But it would be within the
21 recommended range?

22 A. Yes, sir. The lower recommended
23 range.

24 Q. So you don't find any fault with
25 the amount of atropine administered at this



1 point?

2 A. No, sir.

3 Q. Now the next drug that was
4 administered was Vesprin, two milligrams?

5 A. Yes, sir.

6 Q. What is the effect of this drug?

7 A. That's a long lasting tranquilizer
8 and antiemetic.

9 Q. Antiemetic?

10 A. Yes, sir.

11 Q. What does that mean?

12 A. Helps prevent vomiting.

13 Q. Are those the only effects of the
14
15

16 Those are what you give it for. I have no -- I
17 never used Vesprin.

18 Q. Why not?

19 A. Because I used other agents of that
20 same chemical -- not chemical but the same
21 pharmacological preparation. My favorite was
22
23
24
25



1 two milligrams is a deviation from the
2 acceptable standard of anesthesia care?

3 A. In the PDR, which is your accepted
4 authority, it lists the intravenous dosage as
5 one milligram.

6 Q. Does that mean it would be
7 inappropriate to administer two milligrams in
8 this case?

9 Do you have an opinion as to
10 whether it was inappropriate?

11 A. Yes. If it was published in an
12 authoritative text and listed as intravenous
13 dosage of one milligram, then two milligrams is
14 inappropriate.

15 Q. Did the administration of two
16 milligrams of Vesprin in any way cause Mary Lou
17 Brown's cardiac arrest and ultimate death?

18 A. I don't think so because it's
19 listed as a slow onset, long acting
20 tranquilizer and antiemetic. Since all of this
21 is occurring within the first 10 minutes, say
22 **from** induction, then I wouldn't expect the
23 Vesprin to play any significant role.

24 Q. Is there a point in time where the
25 Vesprin could play a significant role?



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1 Q. You are unfamiliar with it?

2 A. It's a drug that I never used.

3 (Recess had.)

4 Q. The next drug that was administered
5 was atracurium three milligrams. What is the
6 effect of that drug?

7 A. It is a skeletal muscle relaxant.

8 Q. Why do you use it? Or do you use
9 it?

10 A. No. I don't use it. Here it was
11 used to cut down the muscle fasciculation from
12 the succinylcholine which is used in a couple
13 of minutes.

14 Q. Doctor, you indicated you didn't
15 use Vesprin and you don't use atracurium. I
16 assume it wouldn't be a deviation from the
17 acceptable standard of care to use those drugs
18 for the induction of general anesthesia?

19 A. **My** only question would be on the
20 Vesprin dosages. The atracurium dosage is
21 within the usual limits.

22 Q. An anesthesiologist's decision to
23 use either of those drugs or both of those
24 drugs is not a departure from the standard of
25 care?



1 A. No, sir.

2 Q. The amount of those drugs used may
3 play a role in determining whether there is a
4 departure?

5 A. Only in the Vesprin. The
6 atracurium is within the usual limits.

7 Q. Three milligrams of atracurium is
8 within the acceptable limit and not a departure
9 from the standard of care, but two milligram
10 may **be**?

11 A. The two milligrams of Vesprin?

12 Q. Yes.

13 A. Yes, sir.

14 Q. Looking at fentanyl three cc's,
15 what is the purpose of that drug?

16 A. A short acting narcotic and
17 tranquilizer.

18 Q. How short?

19 A. Actually this is a narcotic --
20 fentanyl is the narcotic short -- how short, 30
21 seconds intravenously.

22 Q. What is the effect of that
23 narcotic, the short acting narcotic? I missed
24 the effect?

25 A. Painkilling.

1 Q. Side effects?

2 A. Of any narcotic, respiratory
3 depression. Miosis. That's a pinpoint pupil.
4 That's how you tell a hophead.

5 Q. Do you have any criticisms
6 regarding the decision to use three cc's of
7 fentanyl in this case?

8 A, No.

9 Q. The use of three cc's of fentanyl
10 was within the recommended range and was not a
11 departure from the acceptable standards of
12 anesthetic care?

13 A. Right. This was given to cut down
14 on any postoperative pain or discomfort.

15 Q. And it lasts for 30 seconds?

16 A. No. Starts in 30 seconds. Lasts
17 for a couple of hours.

18 Q. I missed that point. I'm sorry.
19 It takes 30 seconds to take effect and then it
20 last for --

21 A. A couple of hours.

22 Q. Sodium pentothal 500 milligrams and
23 succinylcholine 120 milligrams. I take it
24 those were used for induction? That's what you
25 indicated in your report?



1 A. The pentothal would be used for
2 induction. The succinylcholine is used purely
3 for muscle relaxation.

4 Q. What is the duration period for 500
5 milligrams of sodium pentothal?

6 A. You could find traces of it 24
7 hours later.

8
9 effects of sodium pentothal?

10 A. Depends on the dosage.

11 Q. 500 milligrams.

12 A. On a 240 pound lady?

13 Q. Yes.

14 A. I would expect it to knock her out
15 for a couple of minutes.

16 Q. Is that for the purpose of
17 intubating her, in other words, having her
18 knocked out, as you put it, long enough to
19 intubate her?

20 A. Yes, sir.

21 Q. And succinylcholine?

22 A. I would have given her more because
23 she's 240 pounds. If she can get the
24 intubation done with 120 milligrams fine.

25 Q. It's not a departure from



1 acceptable standards of care to render 120
2 milligrams of succinylcholine?

3 A. You could use that as a first
4 approximation.

5 Q. I assume the 120 milligrams of that
6 drug is within the recommended range?

7 A. On a 240 pound woman?

8 Q. Yes.

9 A. It would be at the lower level of
10 what **one** would use.

11 Q. At this point could we have
12 respiratory paralysis?

13 MR. GOLDENSE: At this point of
14 course referring to the administration of these
15 **six** drugs?

16 MR. LICATA: Exactly.

17 Q. At this point in the sequence of
18 the administration of those various drugs, do
19 we have respiratory paralysis?

20 A. We have paralysis of the skeletal
21 muscles. We don't have paralysis of the
22 respiratory drive coming from the respiratory
23 center.

24 When you say "respiratory
25 paralysis," she can not breathe on her own

1 because the skeletal muscles are paralyzed.
2 She would still have a central respiratory
3 drive. Do I make myself clear?

4 Q. I believe.

5 A. She could not breathe on her own.

6 Q. She needs assistance?

7 A. Yes, sir.

8 Q. Would you agree, Doctor, that the
9 combination of these six drugs that we've
10 discussed were within acceptable standards of
11 anesthesia care?

12 A. My only quibble here would be the
13 Vesprin dosage as being twice the textbook
14 level in the Physicians' Desk Reference.

15 a. Which, in your opinion, did not
16 proximately cause the cardiac arrest or
17 ultimate death in Mary Lou Brown?

18 A. Yes, sir.

19 Q. Meaning correct?

20 A. Yes. You are correct.

21 Q. All right. I just wanted to make
22 sure the record is clear.

23 A. And succinylcholine might have been
24 a little inadequate. We've got one thing going
25 for us. We have an upper plate which is out so

1 that you could get a look at her larynx more
2 readily.

3 MR. GOLDENSE: For the record, the
4 Doctor is indicating upper dental plate as he's
5 making this explanation.

6 Q. It's easier to visualize the
7 trachea?

8 A. You never see the trachea. It's
9 easier to visualize the larynx.

10 Q. You have to visualize the larynx to
11 properly intubate?

12 A. In most cases.

13 Q. In which cases don't you?

14 A. If you're blind intubating,

15 Q. They weren't blind.

16 A. No. They are intubating under
17 vision.

18 Q. The fact she had an upper plate
19 removed would be more helpful to the intubation
20 process?

21 A. Yes, sir.

22 Q. You indicate in your report that
23 orotracheal intubation with a number 7 tube was
24 noted as atraumatic. That means there was a
25 problem with the intubation, correct?

1 A. Yes, sir.

2 Q. And that nitrous oxide and ethrane
3 were used for maintaining this patient while
4 under anesthesia?

5 A. Yes, sir.

6 Q. Again, I would assume that it's
7 within acceptable standards of anesthetic care
8 to use nitrous oxide and ethrane to maintain
9 the patient?

10 A. Yes, sir.

11 Q. You don't have any criticism of the
12 anesthetic care up to this point?

13 A. Only what I already told you on the
14 Vesprin and succinylcholine.

15 Q. Other than that, you have no
16 criticisms up to this point?

17 A. No, sir.

18 Q. I'm going to jump just a little bit
19 to the --

20 A. I figured you would, because your
21 first indication of trouble is the rest of that
22 sentence.

23 Q. Which one?

24 A. "The breath sounds are noted as
25 wheezing."

1 Q. I'll get to that. Go to page 4,
2
3 almost too small.

4 A. I'm looking here because seven
5 refers to diameter. An old-timer like me uses
6 a circumference. Number 7 is seven millimeter
7 diameter, which is equivalent to a 30
8 millimeter circumference tube and old-timers
9 like me are used to referring to tubes in
10 circumference, which used to be a way of rating
11 them.

12 On a 240 pound woman I would expect
13 to use at least a number 8 and perhaps a number
14 9.

15 Q. Doctor, would you agree that the
16 weight of the patient makes no difference as to
17 the size of the trachea?

18 A. No. I wouldn't.

19 Q. Is it your opinion that a person
20 who is heavier has a larger trachea?

21 A. We're talking larynx, not trachea.

22 Q. Explain to me where the tube passes
23 for purposes of intubation?

24 A. Through the larynx into the upper
25 part of the trachea. A heavy framed big boned

1 guy like him or me in the male would take at
2 least a 36, which should be almost a number 10
3 on here.

4 A big woman like this, in this
5 terminology would take an 8 or 9.

6 Q. When you say "big woman," you're
7 referring to weight as opposed to bone
8 structure?

9 A. The whole shooting match. This
10 girl is 5'5" and 240. She's carrying a lot of
11 weight on her frame.

12 A little girl like Claudine here
13 would be one to take a number 7.

14 Q. What would this patient's optimal
15 weight be here?

16 MR. GOLDENSE: Objection.

17 A. For 5'5"?

18 Q. Yes.

19 A. I'll have to look in the Army
20 physical tables. At 5'5" if she's big boned
21 and heavy framed, you would expect her to weigh
22 maybe 150.

23 Q. You don't know whether she **was** big
24 boned and heavy framed, do you?

25 A. No, sir. I never saw this lady.

1 Q. Assuming she was 5'5", big boned,
2 and heavy framed and weighed 150, 155 --

3 A. I'd be using a number 8.

4 MR. GOLDENSE: Let him finish his
5 question. You're assuming he was going to --

6 A. Excuse me for interrupting.

7 Q. You said you would use a number 8
8 based on those facts I gave you, based on the
9 bone structure for this woman or the weight?

10 A. It's based on what I feel. I feel
11 the throat before I ever start.

12 Q. Is it important to feel the throat
13 before you decide the size of the endotracheal
14 tube?

15 A. Certainly it is a big help.

16 Q. Would it be fair to say the person
17 who would be in the best position to determine
18 the size of the tube would be the person who
19 was there to see the patient and could make a
20 decision as to the tube to use for the patient?

21 A. That would be fair to say, sir.

22 Q. In your report you state that the
23 number 7 tube is almost too small. Can I
24 conclude from that that the use of a number 7
25 tube in this case being almost too small

1 wouldn't be a departure from acceptable
2 standards of anesthetic care?

3 A. Okay. Yes, You could ventilate
4 satisfactorily a big girl like this from a
5 number 7.

6 Q. There would be no departure from
7 the acceptable standard of anesthetic care to
8 use a number 7 tube?

9 A. No, sir.

10 Q. Let's go back to the section on
11 page 2 where we talked about "breath sounds are
12 noted as wheezing." It's your opinion, Doctor,
13 that you would hear wheezing if the patient was
14 intubated in the esophagus as opposed to the
15 trachea?

16 A. Yes, sir.

17 Q. Why is that your opinion?

18 A. Because I've had it happen to me.
19 This lady is cleared auscultation and
20 percussion preoperatively according to the
21 hospital chart. Which means her lungs are
22 clear to auscultation.

23 All of a sudden with anesthetic
24 induction and intubation her breath sounds are
25 wheezing. Why are they wheezing? If she had a

1 history of asthma than one would think perhaps
2 the pentothal had induced bronchoconstriction
3 and she was wheezing on that, that she was
4 having an asthmatic attack. But in my
5 suspicious mind I would want to know why she is
6 wheezing now and she wasn't preoperatively.
7 What have I done?

8 Q. What would you expect to hear in
9 this patient, if she were properly intubated,
10 as opposed to wheezing?

11 A. Perfectly clear breath sounds.
12 Tubular breathing, since we bypassed the
13 larynx, and we expect to hear tubular breathing
14 so-called on auscultating the lungs or
15 listening to the breathing tubes.

16 I would not expect to hear
17 wheezing. Wheezing is a sign of obstruction.
18 Is the tube kinked? Is it blocked? Have I got
19 the tube in the wrong place?

20 Q. Would you expect to hear bilateral
21 wheezing if the tube were in the esophagus as
22 opposed to the trachea?

23 A. Yes, sir.

24 Q. would you expect to hear bilateral
25 wheezing in a patient who had been, by way of

1 anesthetic agents, prevented from breathing on
2 her own?

3 (Record read.)

4 A. In the absence of any gas exchange
5 you would hear nothing.

6 Q. If the intubation had occurred,
7 whether properly or improperly, and there was
8 no breathing done for the patient, you would
9 hear nothing?

10 A. You would hear nothing.

11 Q. If the intubation had occurred
12 properly through the trachea and there was
13 breathing performed for the patient, you would
14 hear clear sounds of breathing?

15 A. So-called tubular sound.

16 Q. Tubular sound bilaterally?

17 MR. GOLDENSE: For the record, the
18 breathing sound you were just making was how
19 you would demonstrate a tubular breathing
20 sound.

21 THE WITNESS: Yes, sir.

22 Q. If the tube were placed in the
23 trachea through the larynx and the patient were
24 being ventilated properly you would expect to
25 hear wheezing?

1 A. No, sir.

2 Q. What would you hear?

3 A. I would expect to hear no wheezing.

4 Q. Why?

5 A. Because there is no moisture in
6 your line -- in your respiratory line and there,
7 is no bronchoconstriction.

8 Q. Am I to conclude, Doctor, from what,
9 you just told us that if the tube were
10 misplaced you would hear nothing?

11 A. No. No. That's not what you
12 asked.

13 Q. I think what I asked you was if the
14 tube is placed in the esophagus through the
15 trachea and the patient --

16 A. In the esophagus?

17 Q. Through the larynx.

18 A. You don't reach the esophagus
19 through the --

20 MR. GOLDENSE: We know that. He
21 just misspoke.

22 (Discussion off the record.)

23 Q. Doctor, let's back up just a few
24 questions. We're still talking about the same
25 page, but I'm backing up a few questions on



1 that issue.

2 You stated that the wheeze was a
3 sign of obstruction?

4 A. Or bronchoconstriction.

5 Q. You have ruled out
6 bronchoconstriction in this case?

7 A. I haven't ruled it out.

8 Q. Is that a possibility here?

9 A. Yes, sir. She has no history of
10 asthma. But we've given her a slug of
11 pentothal which is parasympathetic and
12 antiemetic and which maybe triggered the
13 bronchoconstriction.

14 Q. Bronchoconstriction could have been
15 one **of** the causes of the wheezing?

16 A. Yes, sir.

17 Q. As well as some of the other
18
19
20

21 or faulty intubation.

22 Q. There is no way for you to
23 determine exactly which one of those it was,
24
25



1 Q. Correct.

2 A. No. I cannot tell at this remote
3 distance. I could have a pretty good idea if I
4 was there.

5 Q. You can't tell as you sit here
6 today what caused the wheeze of those multiple
7 causes, correct, of the ones you've identified?

8 A. As we're going through the case?

9 Q. Yes.

10 A. **Up** to this point. No. I cannot.

11 Q. If those causes that you've listed
12 for the wheeze could have existed, what would
13 you hear if you intubated through the esophagus
14 as opposed to the trachea? Would you --

15 A. The wheezing.

16 Q. You still hear wheezing?

17 A. Yes.

18 Q. Where does the wheeze come from?

19 A. From the fact the trachea is a
20 normally opened tube re-enforced with the
21 C-ring cartilage and opened all the times. The
22 esophagus is normally a closed tube except when
23 a bolus of food is passing through it it will
24 open. Okay?

25 Q. Yes.

1 A. If one intubates the esophagus by
2 error as one is forcing gas down it, one is
3 opening this normally closed tube and you're
4 hearing a wheeze as the gas goes along, past
5 the moisture, and is opening the normally
6 closed tube. That's the wheeze you're hearing
7 with esophageal intubation.

8 Q. Is that the same type of wheeze you
9 would hear with an obstruction in the trachea?

10 A. The wheeze you'd hear with an
11 obstruction of trachea you only hear with a
12 partial obstruction. If it's completely
13 obstructed you don't hear a thing. There is no
14 gas moving back and forth to generate the
15 sound.

16 Q. Right. You indicated there could
17 be a multiple --

18 A. I said when wheezing occurs you
19 have to think of all these things and you
20 better do something about it.

21 Q. My question is: Do you hear a
22 different sound? Although it's a wheeze, do
23 you hear a different sound as the wheeze occurs
24 because the tube is in the trachea as opposed
25 to the esophagus?



1 A. I don't know. To me a wheeze is a
2 wheeze. Is the timbre or note different,
3 you're asking me? I don't know. I don't think
4 so. I don't think so, sir.

5 Q. You have bradycardia noted here at
6 12:05 and surgery was well under way. I take
7 it you concluded that surgery was well under
8 way from your review of the records?

9 A. Yes, sir.

10 Q. And bradycardia at 12:05 includes
11 the pulse rate of less than 30?

12 A. Yes, sir.

13 Q. There are several causes for
14 bradycardia, correct?

15 A. Yes, sir.

16 Q. One of the causes could be
17 intrinsic?

18 A. Yes, sir.

19 Q. And one doing a vagal reflex --

20 A. It's talked of. Not everybody
21 believes in vagal reflex.

22 Q. Do you?

23 A. Do I?

24 Q. Yes. Is it your opinion that vagal
25 reflex can cause bradycardia?



1 A. I haven't seen it except for
2 ophthalmological cases. This is not a
3 ophthalmological case. The only place I
4 myself, in my limited experience, have seen the
5 vagal reflex is with pressure on the eyeball in
6 an ophthalmology case.

7 Q. Would you rule out the possibility,
8 not knowing anything else, but in the vacuum of
9 our hypothetical, would you rule out the
10 possibility of a vagal reflex in the case where
11 a GYN procedure were being performed which
12 included dilation of the cervix and the use of
13 a toothed tenaculum forceps?

14 MR. GOLDENSE: Objection. Because
15 I think your hypothet -- are you talking about
16 a hypothetical case with those facts you just
17 listed?

18 MR. LICATA: Exactly.

19 MR. GOLDENSE: Objection.

20 You can answer the question.

21 A. The only facts you mentioned were
22 dilatation of the cervix and traction of the
23 cervix and the vagus does not go that far down
24 to supply, so, yes, I would rule out vagal
25 stimulation.

1 Q. Is it your opinion that you would
2 never have vagal stimulation with any GYN
3 procedure in the cervical uterine area?

4 A. Anything is possible. The uterus
5 and cervix are below the area of the vagal
6 nerves.

7 Q. Your opinion is that because --

8 A. Which we can see vagal effects with
9 uterine surgery sure. When a guy is doing a
10 Cesarean section, packing off the intestines
11 and pulling on them, then you see the vagal,
12 per se. When he's working from below and she's
13 in lithotomy, I wouldn't expect the vagus to
14 play any role.

15 Q. Would you agree, Doctor, that you
16 could have a parasympathetic reflex that is not
17 necessarily a vagal reflex as a result of the
18 stimulation to the cervical area?

19 A. Parasympathetic. Sure.

20 Q. Would you also agree that certain
21 parasympathetic reflexes can cause bradycardia?

22 A. Yes. Sure.

23 Q. Of the causes, hypoxia is also
24 another cause known for bradycardia? Hypoxia
25 in your earlier responses could give you



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Q. In this case, isn't it true that
bradycardia was a sudden development?

A. No.



1 A. It's suddenly noted. At precisely
2 12:05 p.m., which is the interval that this
3 lady was using, She's using five minute
4 intervals. That doesn't mean that at 12:04 or
5 12:03 bradycardia wasn't present. It means
6 that she isn't noting it until 12:05.

7 Q. That assumes that she's not
8 monitoring the patient during that five minute
9 interval, correct? It's one thing to note it
10 and another thing to monitor, correct?

11 A. You could put it that way. I put
12 it that she isn't charting it until 12:05.
13 Maybe she noticed it before and did nothing. I
14 don't know. She's charting it for the first
15 time at 12:05.

16 Q. Is there any reason to believe from
17 your review of the deposition testimony in this
18 case that this patient developed bradycardia
19 prior to 12:05?

20 A. The slipshod work on the rest of
21 the chart.

22 MR. BUCK: What?

23 **THE WITNESS:** Slipshod work.

24 Q. Where on the chart does it lead you
25 to believe that bradycardia developed before



1 12:05?

2 A. I said it may have. The post-op
3 finishing notes were made and then crossed out.

4 Q. Is there anything in the chart
5 that --

6 A. It may have. I didn't say it did.

7 Q. To a reasonable degree of medical
8 certainty, is there anything in the chart that
9 leads you to the conclusion that bradycardia
10 occurred before 12:05?

11 A. There is nothing to indicate any
12 significant change between the one charted
13 observation at 12:00 and the next charted
14 observation at 12:05. In fact, I'm looking at
15 this and I don't even see the pulse. Okay.
16 Usually one charts pulse as a solid dot.

17 Q. Do you see the pulse on the chart?

18 A. I see what may be the respiration.
19 One charts it as a hollow circle. What she has
20 here is hollow circles.

21 Q. Assuming that those hollow circles
22 represent her methods of charting the pulse,
23 would you agree there is no evidence in the
24 chart that bradycardia occurred before 12:05?

25 A. Looking at this chart, bradycardia



1 hasn't occurred at 12:05. Up here at the top
2 she has 12:00. At 12:05 she has the pulse
3 still charted at 70. At 12:10 she has the
4 pulse still charted at 70.

5 Q. What did you see in the right-hand
6 corner?

7 Don't write on that.

8 A. I'm not writing. I am a
9 bibliophile.

10 Q. What **do** you see?

11 A. The notes, 12:05 patient developed
12 bradycardia of greater than 30 ASA point four
13 I.V.

14 Q. Again, Doctor, to a reasonable
15 degree of medical certainty --

16 A. What the hell --

17 MR. **GOLDENSE**: Wait for a question.

18 Q. To a reasonable degree of medical
19 certainty there is nothing in the chart to
20 indicate that this patient developed
21 bradycardia any earlier than 12:05?

22 A. This is the first mention of it,
23 sir.

24 Q. In fact, based on this portion of
25 the chart, this portion being a TVX rate, it's

1 even probable that bradycardia monitor 12:05

2 A. There is no indication of
3 bradycardia.

4 Q. That's my point. You stated there
5 is a chart notation even as late as 12:00,
6 correct?

7 A. Indicating a pulse rate within
8 normal range.

9 Q. So it is possible, is it not,
10 Doctor, that bradycardia didn't develop until
11 after 12:05, correct, based on the chart?

12 A. Based on the graph as opposed to
13 the marginal note.

14 Q. Back to my original point, your
15 opinion is that this is not sudden bradycardia?

16 A. When you said "sudden bradycardia,"
17 I don't often see that. Coming events cast a
18 **shadow** before.

19 Q. **Do** you see any shadow before?

20 A. From this chart, no.

21 Q. Would you agree, Doctor, that based
22 on only that which you've been able to review,
23 that being the chart and depositions, that
24 bradycardia was a sudden event in this case?

25 A. I don't even see bradycardia on the

1 graph.

2 MR. GOLDENSE: He's now expanded
3 the question to everything you reviewed in the
4 case including depositions which would
5 include --

6 A. I see a discrepancy between the
7 graphs and the written notes, sir.

8 Q. Do those discrepancies lead you to
9 believe that bradycardia was not a sudden
10 result?

11 A. I don't know.

12 Q. Would it be fair to say you have no
13 opinion either way as to whether bradycardia is
14 a sudden result in this case?

15 A. This would be correct, sir.

16 Q. Would you agree, Doctor, that
17 bradycardia can occur suddenly? It is a result
18 that can occur suddenly?

19 A. Yes, sir.

20 Q. When it does occur suddenly it can
21 be the result of the multiple causes that we
22 discussed before, those intrinsic causes,
23 sympathetic causes?

24 A. Parasympathetic causes.

25 Q. Parasympathetic causes. Excuse



1 me. And even secondary to drug reaction?

2 A. The cause of a sudden onset?

3 Q. Yes.

4 A. Yes, sir.

5 Q. After bradycardia occurs, atropine
6 sulfate at point four milligrams was given I.V.
7 Is that an appropriate response to bradycardia?

8 A. Yes, sir. It's an inadequate
9 response and it's one done without thinking.
10 But, yes, it is a response.

11 Q. Why is it an inadequate response?

12 A. Because point four is not a full
13 dose of atropine for bradycardia. Point six or
14 point eight milligrams would be more of a full
15 dose for bradycardia, and is doing nothing to
16 find out why the bradycardia occurred.

17 Q. It wouldn't be a deviation of
18 acceptable standard of anesthetic care to
19 administer point four milligrams of atropine
20 sulfate at this point?

21 A. Yes. It's a deviation. You
22 haven't found the cause and an inadequate dose.

23 Q. What should have been done?

24 A. Find out why the bradycardia is
25 there.

1 Q. How do you do that? What would be
2 the steps? What would you do, Doctor? What
3 would be the acceptable steps of an
4 anesthesiologist?

5 A. What I'd do?

6 Q. Yes.

7 A. I would have started looking as
8 soon as the wheezing is noted. What the hell
9 has gone wrong? Why is she wheezing when she
10 had perfectly clear lungs preoperatively? Have
11 I got a kink in the tube? Is there an
12 obstructed tube? Am I down the esophagus?

13 Q. Would you agree that bradycardia
14 was caused by a lack of oxygen and atropine
15 would have **no** effect? The only thing you could
16 do at that point was to supply the oxygen?

17 A. Right. You're whipping a tired
18 horse when you give atropine to a failing
19 heart.

20 Q. Would CPR be indicated at that
21 point, in other words, at that point where the
22 oxygen was supplied?

23 A. What was your question?

24 Q. Would CPR be indicated if the
25 bradycardia was caused by lack of oxygen?

1 A. In this case, no. CPR would do
2 nothing, but whatever oxygen you supply is not
3 going into the lungs.

4 Q. Once you provide the oxygen that
5 should resolve the problem?

6 A. In this lady?

7 Q. In a person who has been deprived
8 of oxygen?

9 A. No, sir. The brain is one of the
10 first things to die. The heart is one of the
11 last things to die. I'm glad you asked that
12 question.

13 If I might digress briefly, Dr.
14 Hahn, according to his deposition, was educated
15 in Korea. I happen to know that in Korea they
16 take the medical students down to the local
17 jail and show them a judicial hanging or two.
18 When a guy is hanged, his neck is broken and
19 his airway is shut off and up to -- he's gone
20 man and it takes up to 14 minutes for his heart
21 to stop beating. In the absence of oxygen and
22 with a severed spinal cord his brain is dead
23 **long** before his heart stops beating.

24 In something like this where this
25 lady has had inadequate oxygen delivery over a

1 period of many minutes, her heart could keep
2 beating long after the brain is dead. She can
3 not be resuscitated successfully.

4 Does this answer your question?

5 Q. Yes. Hold on a second, please.

6 (Recess had.)

7 Q. Doctor, whose decision would it be
8 to render CPR in this case?

9 A. The first person that recognizes
10 cardiac arrest.

11 Q. If the CRNA were to recognize the
12 cardiac arrest and report it to the attending
13 physician for the surgery, being Dr. El
14 Hamshari, would it be his decision as to the
15 next step to take?

16 A. Of the people in this room?

17 Q. Yes.

18 A. Yes. Ultimately the circulating
19 nurse would have gone out and hollered code.

20 Q. That may have happened as that
21 situation develops as the surgeon is sitting in
22 the operating room and he is the person who
23 makes all the decisions as to what steps to
24 take next, correct?

25 A. No. The way you're putting it the

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1 A. It already has.

2 Q. I understand it already has. I'm
3 not sure what you mean it already has
4 happened. To what point in time when the
5 person develops bradycardia it is essential
6 that --

7 A. Not bradycardia, but a total
8 cardiac arrest.

9 Q. Were you saying asystole?

10 A. One wouldn't start CPR if it's
11 bradycardia.

12 Q. If it's asystole, it's vital that
13 CPR be commenced immediately?

14 A. That's quite important.

15 Q. The surgeon in this case, when
16 asystole developed, should have recommended
17 immediately and started compressing the chest?

18 A. I see what you're getting at and
19 let me defend Dr. Hamshari. The question in
20 his mind is why in such a simple procedure has
21 cardiac arrest occurred.

22 Q. That may be. But my question to
23 you, Doctor, is that it is essential once
24 asystole occurs --

25 A. He's making the diagnosis.



1 MR. GOLDENSE: Let him finish his
2 question. Once asystole occurs.

3 Q. It's essential that once asystole
4 occur that somebody commence CPR so as to avoid
5 the possibility of ultimate brain death? Yes
6 or no?

7 A. No.

8 Q. Why not?

9 A. Because asystole was diagnosed by
10 electrocardiogram, and more than once to me and
11 to everybody -- once the electrodes has come
12 loose and you have a flat EXG, but you still
13 have adequate heart action, one listens quickly
14 to make sure with the stethoscope to make sure
15 that there is an asystole.

16 You don't screw around with the
17 electral terminals. You listen to the beat to
18 make sure that the heart is not beating.

19 Q. Is there any reason to believe that
20 asystole did not actually develop in this case
21 **of** Mary Lou Brown?

22 A. You mean at the stated time?

23 Q. Yes.

24 A. I'm saying what is usual and
25 customary is to confirm that by listening to

1 the chest.

2 Q. Is there any reason to believe that
3 that wasn't confirmed in this case?

4 A. When he listened to her chest, no.
5 He confirmed it.

6 Q. You're saying that **Dr.** El Hamshari
7 confirmed that asystole had developed with her
8 chest?

9 A. He confirmed the electrical
10 findings.

11 Q. At that point should he not have
12 started the CPR?

13 A. After he confirmed asystole?

14 Q. Yes.

15 A. Then and only then would he start a
16 manual compression.

17 Q. That's important to avoid any
18 possibility of brain death, correct?

19 A. Yes, sir.

20 Q. Ultimately the CPR equipment would
21 arrive in the emergency room and then they use
22 the equipment to try to resuscitate the
23 patient, correct?

24 MR. **GOLDENSE:** Your answer is yes?

25 A. No.



1 Q. Why not?

2 A. Because all the equipment is there
3 in surgery except for the defibrillator and
4 looking -- I'm not a cardiologist, but looking
5 at the EKG's which are taken during this period
6 I'm not seeing fibrillation.

7 Q. Which means what?

8 A. That they didn't need all the
9 external action. They were just given as
10 matter of routine happening. There would be
11 some response.

12 Q. That's beyond the point of --

13 A. Initial stuff.

14 Q. Right. Exactly.

15 A. The initial treatment, everybody
16 being present in the operating room.

17 Q. Which includes what?

18 A. Oxygen, people who can manually
19 compress the heart, people who could ventilate,
20 the people -- you don't have to wait for any
21 equipment.

22 Q. The surgeon would be responsible
23 for immediately decompressing the heart after
24 he confirms asystole and would be available for
25 ensuring administration of oxygen which would

1 be applied to the patient as well as whatever
2 else was necessary to resuscitate this woman?

3 A. Yes, sir.

4 Q. Is it true that bradycardia does
5 not need or does not necessarily precede
6 asystole?

7 A. It does not necessarily?

8 Q. Precede asystole.

9 A. Yes, sir. Asystole could be
10 preceded by any heart rate.

11 Q. This happens very quickly. I
12 assume when you state that the nitrous oxygen
13 and ethrane are turned off and CPR has begun,
14 this all occurs at the same time?

15 A. Ultimately. You turn off the
16 nitrous oxide and the ethrane when you noted
17 the bradycardia, when things first started to
18 go to pot.

19 Q. Then what do you do?

20 A. Give 100 percent oxygen.

21 Q. Is that what they did in this case?

22 A. I don't know. She's saying,
23 patient then developed asystole, dash, N-20,
24 turned off oxygen flow. If I'm to believe the
25 charting she kept up the nitrous oxygen and

1 ethrane after bradycardia developed, assuming
2 this is correct.

3 Q. Would you agree, Doctor, that the
4 surgeon shouldn't, at the point of asystole,
5 become involved with the anesthesia management
6 of the patient? In other words, that's not his
7 responsibility?

8 A. He's responsible.

9 Q. So he is responsible for the
10 anesthesia management of the patient even after
11 asystole?

12 A. With the CRNA my understanding of
13 the work is that the surgeon is the captain of
14 the ship.

15 MR. **GOLDENSE:** Objection. Move to
16 strike.

17 A. I'm not sure what --

18 MR. **GOLDENSE:** That's right.
19 That's why I moved to strike.

20 Q. Your understanding is from a
21 medical standpoint that the surgeon has the
22 ultimate responsibility for controlling the
23 CRNA in that operating room?

24 A. In the absence of an
25 anesthesiologist?



1 Q. Correct. That's your
2 understanding?

3 A. That's my understanding.

4 Q. And once the anesthesiologist
5 arrives or appears, at that point the surgeon
6 has no longer a role in the care and management,
7 of the patient as it pertains to anesthesia?

8 A. I don't agree with that, because a
9 bunch of times the surgeon would see something
10 that I didn't. Just as I would see something
11 the surgeon didn't and, by Jove, I would be
12 helping the surgeon and I would expect the
13 surgeon to be helping me. This is not an
14 adversary relationship.

15 Q. I understand. I'm trying to
16 determine the scope of everyone's
17 relationship. Someone has to make the ultimate
18 decision in these cases?

19 A. Yes. Somebody makes the ultimate
20 decision. But it's not an adversarial
21 relationship. It's a cooperative one.

22 Q. Would you agree that the ultimate
23 decision with respect to the anesthesia would
24 be made by the anesthesiologist once he's
25 present?



1 A. Once he gets in the room. Yes,
2 sir.

3 a. In your report, Doctor, you state
4 that, "CPR was continued with no effective
5 response until she was pronounced dead at 1:50
6 p.m." Is it fair to conclude that the duration
7 of the CPR is really not relevant to your
8 analysis of this problem?

9 A. The duration is not relevant?

10 MR. GOLDENSE: Is that a fair
11 conclusion?

12 THE WITNESS: No. It isn't.

13 Q. So the duration of the CPR is
14 important?

15 A. The lack of response is the
16 important thing.

17 Q. The lack of response is one thing,
18 but the fact that CPR was commenced and
19 continued for an hour or two hours is not
20 relevant to your opinion, is it?

21 A. The lack of response is.

22 Q. But the duration isn't important,
23 the lack of response is?

24 A. Right, sir.

25 Q. Doctor, this patient was on a blood

1 pressure gauge, correct?

2 A. Yes, sir.

3 Q. If the patient had had a reaction
4 to the two milligrams of Vesprin, you would
5 have seen hypotension on the blood pressure

7 A. Not necessarily.

8 Q. You wouldn't?

9 A. Remember she's up in lithotomy.
10 Lithotomy means her legs are up in
11

13 returned to the venous system **of** the legs. **So**
14 the volume is somewhere between 500 and 750
15 cc's -- quite often when a guy is shocky or
16 hypotensive, if you put his legs up his
17 pressure will return to normal from the
18 increased venous return. When you put his legs
19 down the blood is back to the venous system of
20 the legs, but the pressure will **go to pot**.

21 Q. If the legs are up what you're
22 telling me is there is no upward effect of the
23 hypotension at that point?

24 A. One is less likely to see it. You
25 could see shock in the lithotomy position.



1 Q. One of the apparent effects of
2 using two milligrams of Vesprin would be
3 hypotension?

4 A. Yes, sir.

5 Q. Are there any others, by the way,
6 other than hypotension?

7 A. Bradycardia.

8 Q. You indicated to me before you do
9 not see any cause or relationship between that
10 Vesprin and bradycardia in this case?

11 A. Because of the prolonged onset of
12 action. It's my understanding from reading
13 about it, since I never use the stuff, it's my
14 understanding from reading about it it's 15, 20
15 minutes before it hits a peak action on the
16 intravenous.

17 Q. The effect of the Vesprin in a form
18 of hypotension would be seen relatively soon,
19 wouldn't it?

20 A. In lithotomy it's masked by the
21 increased venous return from the legs being up.

22 Q. Does it present a problem if it's
23 masked?

24 A. You see it done when you put them
25 back in the supine position and you would

1 handle it when you recognized it.

2 Q. You would see it on the blood

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14 bottom of page 2?

15 A. Yes.

16 Q. You state, "There is nothing on the
17 chart to indicate any assisted or controlled
18 respirations." Are you referring to assisted
19 in the sense that the patient starts to breathe
20 and you assist the breathing? Are you
21 referring to assisted respiration in the form
22 of mechanical or machine breathing?

23 A. Assisted when the patient has an
24 inadequate respiratory volume on his or her own
25 and you're giving an extra boost so that they

1 will have an adequate tidal volume. This could
2 be either mechanical or machine controlled. It
3 is when you take over the breathing entirely
4 for the patient.

5 Q. Don't we have the mechanical
6 assisted respiration in this case?

7 A. Where is it indicated? I found no
8 indication.

9 Q. Isn't it a fact that we have
10 assisted respiration?

11 Doctor, how would it normally be
12 indicated?

13 A. CR or AR and a line on the very
14 bottom of the anesthetic chart.

15 Q. Does the fact that the chart in
16 this case reflects at the top of the graph TVX
17 rate 850 times 10 support the conclusion that
18 we have mechanical assisted respiration in this
19 case?

20 A. Where are you seeing that, sir?

21 Q. Right here.

22 A. It doesn't tell me a thing.

23 Q. That doesn't tell you that. The
24 850 times 10 next to that TVX rate doesn't tell
25 you this patient is on mechanical respiration?



1 A. I could infer that. It doesn't
2 mean it.

3 Q. Did you review the testimony of
4 Judy Daus and Dr. Hahn?

5 A. Yes, sir. I said there is nothing
6 on the chart.

7 Q. You're stating there is nothing on
8 the chart that rejects the idea that the 850
9 times 10 is the mechanical rate of assisted
10 respiration, correct?

11 A. I can assume it, but it isn't
12 saying it.

13 Q. Would you, as a doctor who
14 typically practices anesthesia, conclude to a
15 reasonable degree of medical certainty from
16 reviewing this chart that the 850 by 10 does
17 indicate, even though it's my assumption, that
18 we have mechanically assisted respiration in
19 this case?

20 A. I would expect to see some note
21 down here of AR or CO.

22 Q. I understand what you would expect
23 to see. I think my question is a little bit
24 different.

25 As a doctor in anesthesiology would

1 it be reasonable to conclude -- even though by
2 assumption, would it be reasonable to conclude
3 to a reasonable degree of medical certainty
4 that the 850 by 10 reveals mechanical assisted
5 respiration?

6 A. I hope it would.

7 Q. You **do** agree, don't you, that both
8 Dr. Hahn and Judy Daus testified that there was
9 mechanical assisted respiration, correct?

10 A. Sure. In the deposition they state
11 that.

12 Q. When you state "her ventilation is
13 manifestly inadequate" --

14 MR. GOLDENSE: Please. If you're
15 going to read the whole sentence, don't take
16 out the two key words "If so, her ventilation.
17 . ."

18 MR. LICATA: I don't see how that's
19 relevant **to** my question. But if you insist.

20 Q. The last line on the paragraph that
21 ends on page 3 you state at lines two and
22 three, "If so, her ventilation is manifestly
23 inadequate." "If so," referring to the prior
24 statement that there **is** nothing on the chart to
25 indicate any assisted or controlled

1 respirations. All right.

2 What do you mean by ventilation?
3 Would you define for me, as you use it in this
4 sentence, what you mean by ventilation?

5 A. The volume, the minute volume, the
6 cc's per minute of oxygen reach gaseous mixture
7 that are going in and out of her lungs.

8 Q. You are talking about oxygenation?

9 A. Yes, sir.

10 Q. As opposed to ventilation?

11 In other words, is the term
12 ventilation referring to her level of
13 oxygenation?

14 A. No. Oxygenation is how much oxygen
15 is in her **blood**. Ventilation is the amount of
16 air or gaseous mixture moved in and out of her
17 lungs.

18 Q. Does ventilation include
19 oxygenation when you use it in this sentence?

20 A. Does it include oxygenation? No.

21 Q. In this sentence when you're
22 referring to ventilation you are not referring
23 to the level of oxygen in her blood?

24 A. No. I'm referring to the minute
25 volume of gaseous mixture going in and out of

1 her lungs.

2 Q. What do you mean by manifestly
3 inadequate?

4 A. I refer back to my previous
5 sentence, "There is nothing on the chart to
6 indicate any assisted or controlled
7 respirations." She's paralyzed by the
8 atracurium and the succinylcholine. She could
9 not breathe on her own.

10 Q. If the patient **has** proper
11 mechanically assisted respiration, would that
12 then change your conclusion here, that is, the
13 ventilation is manifestly inadequate?

14 A. Yes, sir.

15 Q. If the person has manifestly
16 inadequate ventilation, what signs would you
17 expect to see if anything?

18 MR. GOLDENSE: Are you talking
19 about this patient or generically?

20 MR. LICATA: Generally.

21 Q. If a person has manifestly
22 inadequate ventilation, what signs would you
23 expect to see?

24 A. If he's conscious he would have
25 respiratory distress and he would be restless.



1 He wouldn't be hardly ventilating and he'd be
2 restless.

3 Q. What if they're under a general
4 anesthetic?

5 A. He wouldn't be showing any signs
6 except cyanosis.

7 Q. Is that because of paralyzation?

8 A. Yes, sir.

9 Q. And you would see signs of
10 cyanosis?

11 A. And in a Negro that's hard to pick
12 up.

13 Q. Where would you look for signs of
14 cyanosis?

15 A. Finger nails and eyelids.

16 Q. Could you also see signs of
17 cyanosis in the vaginal area?

18 A. That isn't too good because the
19 mucous is normally of a purplish color and you
20 wouldn't.

21 Q. The cervical mucous of the patient
22 is purple?

23 A. Kind of purplish. The cervix is
24 pink. You said vagina.

25 Q. Let's talk about the cervical area



1
2 examination and they're using toothed tenaculum

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5 A. No. After the iodine. The iodine

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12 note any abnormalities in that region, wouldn't
13 you?

14 A. Anatomical, yes.

15 Q. Would you expect the surgeon to
16 note any color change in the cervical region?

17 MR. GOLDENSE: Objection. Asked
18 and answered.

19 Go ahead.

20 A. Not after an iodine prep.

21 Q. So your basis for that is because
22 there is an iodine prep there is no way you
23 could determine whether cyanosis has set into
24 the cervical region?

25 MR. GOLDENSE: Objection.



1 You may answer.

2 A. It would certainly mask any color

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7 the cervical area?

8 MR. GOLDENSE: Objection.

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21 one expect to see cyanosis in the fluid and
22 blood?

23 A. No, sir.

24 Q. So the blood coloration in that

25 area would **be** the same regardless of whether



1 cyanosis had set in?

2 A. Wait a second. This girl -- it's
3 not dysfunctional uterine bleeding and he
4 dilates the cervix, he may be getting out old
5 blood. He may be getting out clots if the
6 tenaculum -- with the two teeth gripping the
7 cervix I wouldn't check to see blood loss he's
8 getting out through the cervical -- if that was
9 old blood or new. Old blood would be the
10 darker, what would have been there for days or
11 weeks. I wouldn't expect the surgeon to be
12 getting any clues from down where he is.

13 Q. If the blood that came from the
14 cervical os and cervical region were red and
15 normal in appearance, would there be any reason
16 to believe at that point that cyanosis set in?

17 A. He hasn't even started curettage.
18 He wouldn't be getting any fresh blood.

19 Q. That's not responsive to my
20 question.

21 Assuming, Doctor, working in the
22 cervical area, that is, using a toothed
23 tenaculum forceps, pulling on the cervix, and
24 dilating the cervix and doing all the things we
25 just talked about, that the surgeon did see

1 fresh blood, would there been any reason to
2 believe that cyanosis had set in at that
3 point?

4 MR. GOLDENSE: From looking at the
5 fresh blood?

6 MR. LICATA: From looking at the
7 fresh blood.

8 A. If this is fresh blood and all
9 likelihood it's venous, not arterial. It would
10 be dark venous blood in all likelihood which he
11 is seeing.

12 MR. GOLDENSE: The real question is
13 would it be probative of the diagnosis of
14 cyanosis?

15 MR. LICATA: Right.

16 A. I wouldn't expect him to see any
17 bright red blood.

18 Q. If he did, would that be an
19 indication that cyanosis had not set in?

20 A. If he did. If he saw bright red
21 blood that would be an indication that cyanosis
22 had not set in. But I would not expect him to
23 see it.

24 Q. Doctor, referring to the first
25 paragraph on page 3, you state that Miss Daus'

1 deposition reveals the patient was put on a
2 ventilator following intubation and that it is
3 not charted, that she tells you that she put
4 the patient on 850 cc's tidal volume at a
5 respiratory rate of 10 times a minute.

6 Isn't it true that the chart
7 reflects that Judy Daus indicated in her
8 deposition that the patient was on 850 cc's
9 tidal volume at a rate of 10 per minute?

10 A. When we go back those are what the
11 figures may be.

12 Q. Is it a deviation from acceptable
13 standard of anesthesia care to not mention the
14 developed pressure on the ventilator?

15 A. Okay. I see what you mean. If one
16 is going to chart the cc's and the volume, then
17 one charts the developed pressure, because in
18 the presence of total obstruction, say an
19 obstructed tube, the endotracheal tube or the Y
20 which connects that tube, the pressure
21 developed will be exceedingly high. You will
22 have an apparent volume delivered at this
23 rate. But it's not actually getting down to
24 the patient's lungs.

25 In other words, the guy could be

1 totally obstructed and these cc's and the rate
2 the ventilator's telling you this, but the
3 pressure is way up.

4 Q. Doctor, assuming the pressure is
5 normal, would you agree that it is not a
6 deviation from acceptable standards of
7 anesthetic care to not chart the developed
8 pressure?

9 A. **No.** I wouldn't.

10 Q. So you would also chart it even if
11 it's normal?

12 A. If I was going to put down the
13 tidal volume and the time per minute, I would
14 put down the pressure developed as well to
15 indicate at a later time they had been awake
16 and alert enough -- that an obstruction had
17 occurred.

18 Q. So you chart developed pressures
19 all the time?

20 A. **Yes,** sir. If I'm charting tidal
21 volume and respiratory rate, I chart the
22 developed pressure as well.

23 Q. Doctor, you stated that you would
24 put this information on the chart and that you
25 would chart it even if it were normal, is that



1 what you would do? Or is that what acceptable
2 standards of anesthesia practice require?

3 MR. GOLDENSE: Now we're talking
4 only about the instance where tidal volume and
5 respirations are the chosen method of charting,
6 because earlier in his testimony he indicated
7 there was an entirely different way to chart
8 this.

9 In the context of tidal volume per
10 minute, is it the standard of care to also
11 chart developed pressures?

12 Q. If it's normal?

13 A. Yes, sir.

14 Q. Anything else?

15 A. The guy wasn't looking.

16 Q. Is there any way for you to

17
18 your review of the deposition transcript that
19 there was a pressure volume in this case?

20 A. An absence of any findings?

21 Q. Yes.

22 A. No.

23 Q. So you cannot render an opinion to
24 a reasonable degree of medical certainty that
25 there **was** in fact a pressure problem in this



1 case, correct?

2 A. I have no information.

3 Q. That means you can't. That means
4 you can't render an opinion because of that,
5 correct?

6 A. What *you* are asking me in the
7 absence of information can I not have an
8 opinion?

9 Q. No. My question is this: Because
10 of no information before you on the developed
11 pressure, you are not in a position to render
12 an opinion to a reasonable degree of medical
13 certainty that there was a pressure problem in
14 this case, correct?

15 MR. GOLDENSE: The problem is you
16 have an affirmative antecedent reference in the
17 first half of the question, and when you ask
18 the question you ask it in the negative.

19 Why don't you ask the question, do
20 **you** have an opinion based upon a reasonable
21 degree --

22 MR. LICATA: Fine,

23 Q. **Do** you have an opinion to a
24 reasonable degree of medical certainty as to
25 whether there was a pressure problem in this



1 case?

2 MR. GOLDENSE: You can answer the
3 question.

4 A. Yes. I have an opinion.

5 Q. What is that opinion?

6 A. Based on the wheezing respiration
7 and the hindsight afforded by Dr. Hamshari's
8 deposition, the developed pressure would have
9 been quite high, higher than normal.

10 Q. You based that not only on the
11 wheezing respiration but on Dr. El Hamshari's
12 deposition?

13 A. Yes.

14 Q. What aspect of Dr. El Hamshari's
15 deposition are you relying on?

16 A. That he heard no air moving in and
17 out of the lungs at the time he auscultated the
18 lungs.

19 Q. Why would Dr. El Hamshari hear no
20 air when he auscultated the lungs if this
21 person were on a mechanically assisted system
22 of ventilation?

23 A. Because none was moving in and out
24 of the lungs.

25 Q. Then why would Judy Daus hear



1 wheezing in the same set of lungs under the
2 same set of circumstances?

3 MR. GOLDENSE: Objection. I don't
4 think there was any evidence that the
5 circumstances were the same. When she recorded
6 her observation and when Dr. El Hamshari
7 recorded his the circumstances were not the
8 same.

9 Factually, that's an incorrect
10 question to ask.

11 Q. Doctor, it's true that Judy Daus
12 charted in any high breath sounds which
13 included wheezing?

14 A. On this chart.

15 Q. That's her recollection as well in
16 her deposition?

17 A. Yes, sir.

18 Q. She indicated that, she noted that,
19 she charted that **by** auscultation, this person
20 was on a mechanically assisted respirator,
21 correct?

22 A. Yes, sir.

23 Q. Based on that she still heard
24 wheezing, correct?

25 A. I don't know that she still did.



1 Q. Initially the person was on the
2 respirator?

3 A. Initially. I think that she made
4 an initial --

5 Q. Did the wheezing go away?

6 A. I don't know.

7 Q. If she heard it initially why would
8 she not hear it later?

9 A. If she heard it initially why would
10 she not hear it later? Okay. We went through
11 the various causes of wheezing. If it were
12 bronchoconstriction like an asthmatic attack in
13 anesthetic, the ethrane may have relaxed the
14 bronchi.

15 Q. So she would no longer hear a
16 wheeze or anything?

17 A. No longer hear wheezing.

18 Q. Would she then hear normal breath
19 sounds?

20 A. If the agent had relaxed the
21 bronchi and asthmatic attack no longer existed,
22 if the tube was partially obstructed or kinked
23 and she got that straightened out, then she
24 would no longer hear the wheezing.

25 Q. But she would hear normal breath



1 sounds?

2 A. If the cause is in the esophagus
3 and that's why she heard the wheezing, she
4 would not hear it later on perhaps because all
5 of the saliva and fluid in the esophagus had
6 passed away and there was no esophagus -- the
7 gullet was then dry and there is no bubbling,
8 no wheezing, for it to be heard when the gas
9 mixture passes in and out.

10 Q. Even though gas were being forced
11 through the esophagus there would be no noise?

12 A. Later on you could -- it's possible
13 that the wheezing would have cleared, there
14 would be no more noise in the esophagus.

15 Q. Would you hear anything at all when
16 you listened?

17 A. If you listened to the stomach you
18 hear a gurgle, but that's not well transmitted.

19 Q. If you listen to the chest what
20 would you hear?

21 A. You may still hear breathing that
22 you heard initially, but the chest isn't
23 responding.

24 Q. I understand that. But my question
25 is, maybe you answered this, why would Judy

1 Daus hear wheezing and breath sounds at first
2 and not later if the tubes were in the
3 esophagus and not the endotrachea?

4 A. Because the esophagus may have died
5 out.

6 Q. That's the only reason?

7 A. Why she wouldn't hear the
8 wheezing. She could still hear what she first
9 thought was breath sounds in both lungs.

10 Q. The sound that you would hear in
11 the lower portion of the stomach, that bubbling
12 or wheezing or gurgling, what is that sound?

13 A. Usually it's a gurgle and it's the
14 gastric juices.

15 Q. It's a different sound than
16 wheezing?

17 A. Yes, sir. It's more of a bubbling
18 sound.

19 Q. So you base your opinion that there
20 was a developed pressure problem on the
21 wheezing respirations charted by Judy Daus and
22 on the fact that Dr. El Hamshari had heard no
23 air at all when he auscultated the lungs?
24 That's what you base that opinion on?

25 A. Yes, sir.



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he's an observer --

Q. The question is: Is your opinion, which is based in part on the testimony by Dr. El Hamshari, and the fact that this patient was on mechanically assisted respiration still that there was a develop pressure problem?

A. As if she'd been on manual

A. Yes, sir.



1 Q. Is there anything else in Dr. El
2 Hamshari's deposition testimony that led you to
3 the opinion that there was a developed pressure
4 problem in this case?

5 A. Oh, I have an inference of mine.

6 Q. It's an inference that there was a
7 developed pressure problem?

8 A. That she was not at this volume --
9 this tidal volume was not being delivered to
10 her lungs.

11 Q. Right. But that inference is based
12 on wheezing respirations noted by Judy Daus and
13 by Dr. El Hamshari's testimony that he didn't
14 hear any wheezing?

15 A. Yes, sir.

16 Q. Is there anything else that Dr. El
17 Hamshari said in his deposition that support
18 that opinion?

19 A. Not that I recall.

20 Q. On page 3 of your statement you
21 state in the second full paragraph, "From the
22 sequence of events, intubation and cardiac
23 arrest seven minutes later, this exactly fits a
24 failure of delivery of an adequate oxygen
25 concentration to the patient's lungs." Bear

1 with me one moment.

2 Based on the statement that you
3 made, "From the sequence of the events. . ."
4 would you explain to me why the sequence of
5 events fits exactly the failure of delivery of
6 adequate oxygen concentration to the patient's
7 lungs?

8 A. I mentioned the matter of judicial
9 hangings where the person continues breathing
10 after the rope got tighter on the guy's neck
11 was 14 minutes, In a case with a person of
12 weak heart or otherwise severe systemic
13 disease, if you cut off their oxygen they may
14 be dead like that.

15 This fits the one to 14 minute time
16 frame that cardiac arrest follows cutting off
17 the oxygen supply.

18 Q. Why does it take one to 14 minutes
19 for cardiac arrest to occur?

20 A. It depends on the guy's previous
21 condition, his state of health.

22 Q. In other words, why physiologically
23 not? Why not?

24 A. Because the body, as a whole,
25 requires the oxygen to keep on functioning and



1 the heart muscle requires oxygen to keep on
2 constricting.

3 Q. Where is the heart and body getting
4 the oxygen to last 14 minutes if the oxygen
5 supply has been cut off?

6 A. For several minutes out of the
7 circulating blood. Beyond that it goes into
8 anaerobic work, work accomplished without
9 oxygen.

10 Q. When you say several minutes the
11 oxygen is circulating in the blood, what is the
12 time duration for that to occur before that
13 supply runs out?

14 A. Again, several minutes. That's all
15 the more specific I could be.

16 Q. You said aerobic?

17 A. Anaerobic work out, oxygen is a
18 matter of minutes, several minutes, again.

19 Q. A combination of those two, the
20 circulating blood with the oxygen supply and
21 anaerobic work will ultimately result in
22 asystole?

23 A. Yes, sir. The heart muscle can no
24 longer function. It's doing work in
25 contracting.



1 Q. Can an individual go for more than
2 15 minutes? Because you've said the one to 14
3 minutes, can an individual go for more than 15
4 minutes without oxygen?

5 A. Yes. If he's hypothermic. You see
6 this in the children that fall through the ice
7 every winter and 30 and 40 minutes later are
8 successfully resuscitated because the body
9 temperature has been brought down in the cold
10 water. But in this case we're dealing with a
11 person with normal temperature.

12 Q. A person like Mary Lou Brown
13 wouldn't be able to go for more than 15 minutes
14 **if** she were developing asystole without getting
15 any oxygen?

16 A. If she's maintaining her normal
17 body temperature. I gave the 14 minutes as the
18 **one** I know with the judicial hanging where the
19 guy's heart keeps on beating.

20 Q. Let me understand you, if a patient
21 has normal body temperature and they are
22 deprived of oxygen under general anesthesia --

23 A. Completely deprived?

24 Q. -- completely deprived of oxygen
25 under general anesthesia, that patient will not

1 be able to last for more than 14 minutes before
2 they will develop asystole?

3 A. This is the figure from my
4 knowledge. I don't know whether anybody has
5 lasted longer than that.

6 Q. Your opinion is that the duration
7 in time is 14 minutes before asystole would
8 ultimately develop?

9 A. Yes, sir.

10 Q. That's your opinion to a reasonable
11 degree of medical certainty?

12 A. That was not in an anesthetized
13 patient a --

14 Q. We're talking about an anesthetized
15 patient.

16 A. I don't think the anesthesia would
17 have prolonged that.

18 Q. Your opinion would still be 14
19 minutes?

20 A. I would think that.

21 Q. To a reasonable degree of medical
22 certainty, that's your opinion?

23 A. That is medical or coroner?

24 MR. GOLDENSE: Same thing.

25 A. Yes, sir.

1 Q. Now the multiple causes that you've
2 listed here as being possibilities, page 3,
3 we've already established are no longer still
4 or no longer the causes that serve as the basis
5 for your opinion, correct?

6 A. Yes, sir. May I repeat?

7 Q. Yes. Am I correct?

8 A. Yes, sir.

9 Q. What were you going to say?

10 A. These thoughts were before I
11 studied Dr. El Hamshari's deposition in detail.

12 Q. I understand that. What you are
13 telling us today is your opinion has changed
14 from when you gave this statement on March 9,
15 1988?

16 It's changed from that date because
17 of the deposition testimony of Dr. El Hamshari,
18 correct?

19 A. Yes, sir.

20 Q. First of all, is there anything
21 else, other than Dr. El Hamshari's testimony,
22 that has served as a basis for this
23 supplemental or new opinion?

24 A. Supplemental, yes. We have not
25 ruled these out.



1 Q. I think you indicated at the outset
2 of this deposition to a reasonable degree of
3 medical certainty you could not state these
4 other conditions are the cause of this
5 individuals cardiac arrest and ultimate death?

6 A. Please say that again.

7 Q. I said, we established at the
8 outset or earlier on in this deposition that
9 you could not state to a reasonable degree of
10 medical certainty that these possibilities were
11 the cause --

12 MR. BUCK: The possibilities you
13 are referring to are what?

14 MR. LICATA: Possibilities set
15 forth in the statement of March 9, 1988
16 identified as Defendant's Exhibit 1 on page 3.

17 Q. You could not state to a reasonable
18 degree of medical certainty that they were the
19 cause **of** the cardiac arrest and ultimate death
20 in Mary Lou Brown's case?

21 A. I'm saying these have to be
22 considered among the possibilities.

23 Q. I understand that. But in
24 considering them among the possibilities could
25 you state to a reasonable degree of medical



1 certainty that any one of these possibilities
2 caused Mary Lou Brown's cardiac arrest and
3 ultimate death?

4 A. No, sir.

5 Q. So the only possibility that you
6 can state caused her death to a reasonable
7 degree of medical certainty is the placement of
8 the endotracheal tube in the esophagus?

9 A, Considering all the evidence at my
10 disposal that's my conclusion.

11
12 that supplemental position, on Dr. El

13

14

15 Q. Have you based it on anything
16 else? In other words, in addition to what
17 you've already reviewed, has anything else
18 supported this additional position?

19 MR. GOLDENSE: Any other evidence?

20 A. No. I have no additional evidence.

21 Q. What does Dr. El Hamshari state in
22 his deposition testimony that led you to this
23 opinion that the endotracheal tube was
24 misplaced?

25 A. On page 3 of Dr. El Hamshari's

1 first deposition -- I don't have the second
2 one.

3 Q. I understand.

4 A. On page 3 of the initial
5 deposition, line 11, the doctor is saying, "In
6 my opinion the endotracheal tube, the first
7 endotracheal tube was placed in the esophagus
8 and not in the trachea."

9 Q. Is there anything else?

10 A. He elaborates on this response to
11 Mr. Buck's question.

12 Q. Okay. So based on what Dr. El
13 Hamshari's opinion is and the basis for that
14 opinion, you have developed an opinion?

15 A. Yes, sir.

16 Q. Anything else that Dr. El Hamshari
17 stated?

18 A. As I said, he was **not** a naive
19 observer. He's a very experienced one. I
20 assume he's telling the truth. He has eight
21 years of experience -- seven years of
22 experience, I beg your pardon, back on page 68
23 line 11, "Because I could not hear good entry
24 into the chest." A

25 Q. All right. Anything else?

1 A. He repeats this.

2 Q. So we have basically two points
3 that you raised out of the deposition, one
4 being in Dr. El Hamshari's opinion the
5 endotracheal tube was misplaced and the other
6 being there was no good air entry into the
7 chest, which is what he states in --

8 MR. GOLDENSE: In fairness, he
9 already said three times now the man was not a
10 naive observer.

11 Q. And the fact he was not a naive
12 observer, is there anything else?

13 A. No. It's the same way I'd have
14 gone about it.

15 Q. Doctor, you stated that you assumed
16 that Dr. El Hamshari was telling the truth, are
17 you assuming that Judy Daus or Dr. Hahn are not
18 telling the truth?

19 A. I'm assuming they're telling the
20 truth insofar as they say anything. The CRNA
21 is not saying that she looked again or that she
22 listened throughout. She's saying she heard
23 the wheezing breath sounds, bradycardia. We've
24 explained the wheezing breath sound. We've
25 explained the development of bradycardia. She



1 never looked again to check her place. She
2 suctioned the tube. There is no obstruction in
3 the tube.

4 Q. You're assuming what Dr. Hahn and
5 Judy Daus have not stated is important?

6 A. Yes, sir. They're telling you the
7 truth and nothing but the truth. But not the
8 whole truth.

9 Q. Let's go to page 4 of your report.

10 A. Yes, sir.

11 Q. The top of your report says her
12 failure to respond to an hour and-a-half of
13 resuscitation indicates a prolonged period of
14 hypoxia or anoxia?

15 A. Yes, sir.

16 Q. Would you tell us the difference,
17 first of all, between anoxia and hypoxia?

18 A. Hypoxia is a decrease in oxygen in
19 the circulating blood and anoxia is an absence
20 of oxygen.

21 Q. Are you uncertain as to whether she
22 had a prolonged period of hypoxia versus
23 anoxia? Or are you indicating she had both?

24 MR. GOLDENSE: Or how about the
25 third alternative that she had either one?

1 MR. LICATA: That's fine.

2 Q. The first question is: If she had
3 either one why can't he determine which one?

4 A. She has either a decrease or an
5 absence. I don't think the terms are mutually
6 exclusive.

7 Q. Is there any way to state to a
8 reasonable degree of medical certainty which
9 she had?

10 A. She would start with hypoxia, a
11 decrease in oxygen in the blood, and that would
12 progress to anoxia, an absence of oxygen.

13 Q. As the oxygen supply is depleting
14 from her system she moves from one state to
15 another?

16 A. Yes, sir. She goes from the
17 decreased oxygen to the state of no oxygen in
18 her blood.

19 Q. Is it true that regardless of the
20 level of oxygen in the blood, even if it were
21 theoretically 100 percent, without a heart rate
22 you would still have brain damage?

23 A. Yes. This is true. You have to
24 know the blood circulation to keep the brain
25 alive.

1 Q. Which is why CPR becomes important
2 once asystole developed?

3 A. Yes, sir. You have to keep the
4 brain alive.

5 Q. Doctor, I want you to assume that
6 the tidal volume of oxygen received by the
7 ventilation system was in fact 850 by 10, would
8 you agree on that basis that she had more than
9 enough oxygen under controlled ventilation?

10 MR. GOLDENSE: How was she
11 intubated in your assumption?

12 MR. LICATA: She was properly
13 intubated, obviously, for the purpose of the
14 hypothetical.

15 Q. In other words, assuming that she's
16 properly intubated and that she's getting
17 mechanically assisted ventilation at the rate
18 of 850 times 10, would you agree, Doctor, that
19 that's adequate under the circumstances?

20 A. Okay. I have to pick a niche with
21 you again.

22 MR. GOLDENSE: Wait a minute. He's
23 not asking you to look at this. He's now
24 asking you a hypothetical question. He's
25 asking you to assume away a lot of things that

1 you've already testified to.

2 Assume that this woman was
3 intubated in the trachea and assume that she
4 was receiving tidal volume of 850 with 10
5 respirations per minute, is that adequate?
6 Assume all those things.

7 A. It cannot be answered until you
8 tell me the oxygen concentration. If there is
9 no oxygen in the mixture she won't live.

10 Q. Assuming that the oxygen
11 concentration is at the appropriate levels and
12 all the other assumptions?

13 A. Yes.

14 Q. So the 850 times 10 would be
15 enough?

16 A. Yes, sir.

17 Q. Adequate?

18 A. Yes, sir. You left out the oxygen.

19 Q. That's my next question. What is
20 the appropriate level of oxygen?

21 A. According to the charting, the
22 three liters per minute of nitrous oxide, two
23 liters per minute of oxygen, which gives a 40
24 percent oxygen concentration which is quite
25 adequate.

1 Q. Doctor, you stated that you've
2 become familiar with sinografin based on this
3 case, correct?

4 A. No. I've become familiar with the
5 literature on sinografin.

6 Q. Because of this case?

7 A. Yes, sir. I looked up the
8 worldwide literature.

9 Q. Did you look at the page inserts
10 for sinografin?

11 A. No, sir.

12 Q. Are you aware that one of the
13 complications for sinografin is severe
14 anaphylaxis resulting in death?

15 MR. GOLDENSE: Do you have a page
16 insert for him to examine.

17 MR. LICATA: No. I don't. I'm
18 asking if he's aware.

19 A. No, sir. That's a standard
20 practice.

21 Q. Would you agree that the use of
22 sinografin hysterosalpingogram carries with it
23 a risk of anaphylaxis, which is why you
24 typically do procedure on a patient who is not
25 under general anesthesia?

1 A. No, sir. I wouldn't agree.
2 Because according to the literature, death was
3 much more common when sinografin was in an oil
4 vehicle rather than in aqueous vehicle, which
5 Dr. Hamshari used. On careful autopsy the
6 deaths were not due to anaphylaxis but to oil
7 embolism. **So** that at first glance you'd say
8 she had an anaphylactic reaction. Careful
9 autopsy showed oil globules in the lungs.

10 Q. That sinografin is oil based?

11 MR. GOLDENSE: No. No.

12 A. No. It previously was oil based.
13 It has gone out because of the embolic deaths.
14 The water based deaths have been miniscule.
15 Infinitesimal.

16 MR. ALLISON: The way you use the
17 term sinografin, meaning contrast medium, I
18 think is what the confusion was. You said
19 sinografin used to be oil based, now it's water
20 based product. Sinografin, which is the
21 particular one you'd mix, is water based and
22 not oil based, correct.

23 THE WITNESS: Yes, sir.

24 Q. Your opinion is based on the
25 autopsy and that there was something in the

5 anesthesia. Only in eosinophilia you would
6 find that, but a postmortem complete blood
7 count -- I think as you bring up the point, she

process of resuscitation. I think she did.
10 There were all kinds of blood chemistries and
11 stuff. I don't think they're mentioning any
12 eosinophilia, so nothing indicates anaphylaxis,
13 sir. Any CBC done during resuscitation?

14 Q. Yes. I appreciate it if you could
15 look for that because I didn't see it.

16 A. I imagine all I got was the blood
17 chemistry.

18 - - - - -
19 (Thereupon, Defendants' Deposition
20 Exhibit 3 was mark'd for purposes
21 of identification.)

22 - - - - -
23 A. The only CBC was undoubtedly the
24 preoperative, but they had the eosinophils in
25 there which is within normal limits. I don't



1 think she had any other. So we have no
2 indication of anaphylaxis. That's not to say
3 that it did not occur, You usually see the
4 tachycardia and hypotention before the
5 hypotension -- the bradycardia occur.

6 Q. Do you have an opinion to a
7 reasonable degree of medical certainty whether
8 this person suffered an anaphylactic reaction?

9 A. Yes.

10 Q. What is that opinion?

11 A. There is no evidence **of** it.

12 Q. What evidence would you expect to
13 see to determine anaphylaxis?

14 A. An immediate collapse during
15 surgery.

16 Q. If you had a sudden bradycardia
17 which resulted in asystole that would be an
18 immediate crash?

19 A. Okay. I'd expect to be seeing
20 hypotension, bradycardia and death, almost
21 immediately and she isn't showing this.

22 Q. You would expect to see
23 hypotension, bradycardia, asystole and **no**
24 recovery immediately?

25 A. In a much shorter time frame.

1 Q. Within a matter of immediate
2 sequence?

3 A. Yes, sir. Within a matter of one
4 or two.

5 Q. If that did occur you would agree
6 that would be evidence of anaphylactic
7 reaction?

8 A. It would be an immediate
9 catastrophe which may be anaphylaxis.

10 Q. It would be consistent with the
11 diagnosis of anaphylactic reaction?

12 A. Yes, sir.

13 Q. Would you expect to see anything in
14 the autopsy to confirm anaphylaxis?

15 A. Only the eosinophilia.

16 Q. Is there any way for you to
17 determine whether that exists in this case by
18 looking at the autopsy report, which I'm going
19 to show you which has been marked Defendants'
20 Exhibit 3?

21 A. It's not reported.

22 Q. There is no way of determining,
23 based on the autopsy report, whether that
24 exists?

25 A. I'm seeing as a micro everything is



1 negative except for lung edema.

2 Q. None is reported? Are you telling
3 us the test was not done or the test was done
4 and there is no evidence?

5 A. In the preferred slides of tissues
6 blood cells would be seen. It's not -- they're
7 not describing, so we presume that it didn't
8 attract the obvious. JME is this
9 microscopist. I don't know who JME is.

10 Q. What do you mean they --

11 A. As he or she did not look at those
12 slides, he or she does not type in eosinophils
13 in the section.

14 Q. Is that something you have to look
15 for? Or is that something you will see as a
16 matter **of** diagnosis?

17 A. Depends how observant are you.

18 Q. If one is not looking for that in
19 microscopic review, one might not see it?

20 A. That's right.

21 Q. That would --

22 A. It's like anything else. You have
23 to see it. It has to register.

24 Q. **In** this case this would be
25 something if someone were looking for and did

1 not find it, that they would chart an absence
2 of it on the report?

3 A. I have to assume that the coroners
4 office, since the first examination is
5 cardiopulmonary, are finding intrauterine
6 injection of sinografin. I would assume they
7 would have picked up the eosinophilia, since
8 this would be along with the anaphylactic
9 reaction.

10 a. Would you agree that if they were
11 going to be looking for that they would chart
12 the absence in the report?

13 A. No.

14 Q. They would just not mention it?

15 A. We have to assume that they were
16 acute and observant. Okay.

17 Q. I'm not sure I understand why they
18 wouldn't chart it if they were looking for it?

19 A. In the absence?

20 Q. Yes.

21 A. Probably because they did not
22 expect us to be quibbling. They're just saying
23 negative normal, patient negative. They're
24 assuming that we will take that as proof of
25 their observation.

1 Q. Didn't we state earlier, though, if
2 it's not charted it wasn't done. Wasn't that
3 your position earlier with respect to the
4 charting of Judy Daus in this case?

5 A. That's right.

6 Q. Can't we assume if it's not charted
7 in this case it wasn't looked for?

8 MR. GOLDENSE: Objection. The
9 context is totally different.

10 Go ahead.

11 A. No. Because I think the
12 pathologist is looking at this stuff weeks or
13 months later.

14 Q. Doctor, I'm sorry.

15 A. I'm assuming the pathologist, who
16 is an M.D., is more competent than the girl who
17 is doing sloppy work in anesthesia.

18 Q. That assumes that the girl doing
19 the work is doing sloppy work, doesn't it,
20 Doctor?

21 A. That's right.

22 Q. What do you base that assumption
23 on?

24 A. I think we mentioned that the signs
25 of what appeared on page 4, my previous

1 statement, post-op notes which were made on the
2 chart and crossed out when trouble supervenes.

3 Q. Are you telling us, Doctor, that
4 it's your opinion that the charting in this
5 case proximately caused this woman's death?

6 A. No. I'm saying it's an indication
7 of sloppy work. There is no indication of
8 sloppy work in the microscopic which the
9 coroner's office did.

10 Q. Don't you agree, Doctor, that when
11 charting on patients there are a number of
12 times when inaccurate information will be
13 charted and that information is corrected,
14 isn't it the obligation of the person charting
15 that information to correct that chart?

16 A. If he writes it down before the
17 event has occurred. Well, better -- why did he
18 write it down before the event occurred?

19 Q. **We'll** have to ask her, won't we?

20 A. Yes. We will.

21 Q. **My** question to you is: Regardless
22 of the reason why she wrote it down before it
23 occurred, isn't it proper practice to place the
24 appropriate information on the chart after the
25 event transpired?

1 A. No -- okay. If you are going to
2 pin me like this --

3 MR. GOLDENSE: The question is: Is
4 it appropriate practice to change your mistakes
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1 findings to the best of my knowledge are
2 nonspecific.

3 Q. Are there any other findings to
4 determine anaphylaxis on the autopsy rather
5 than the eosinophils?

6 A. No. The liquidity of the blood,
7 when you make an incision the blood is still
8 liquid. No clots are formed because
9 prothrombin has been destroyed.

10 Q. Do we have that in this case?

11 A. We have no indication of it.

12 Q. Either way?

13 MR. GOLDENSE: Indicating no.

14 A. Indicating no.

15 Q. Doctor, would you agree that the
16 coroner's report in this case makes no findings
17 of the death relating to the administration of
18 anesthesia?

19 MR. GOLDENSE: Would you agree with
20 that?

21 A. Yes, sir.

22 Q. Would you also agree that the
23 purpose of the autopsy is to determine the
24 cause of death?

25 A. Yes, sir.

1 Q. To the extent that the coroner can
 2 determine the cause of death, the coroner will
 3 put that cause upon the hearing calling
 4 Cause of death?

5 A. Yes, sir

6 Q And as a coroner, doctor, would
 7 you, in a case such as this one, be looking for
 8 multiple causes of death including death as a
 9 result of improper anesthesia management?

10 A. I'd be looking for any possible
 11 cause based on the information given and
 12 available to me at the time.

13 Q In this case that would also
 14 include the possibility of death resulting from
 15 improper anesthetic management, correct?

16 A. I saw no indication of that
 17 information being given to Mr. Gardner.

18 MR. GOLDENSE: Or Mr. Gardner's
 19 staff To be fair.

20 Q Is the information and been given
 21 to Mr. Gardner, or Mr. Gardner's staff, that
 22 would have been one of the possible causes to
 23 consider, wouldn't it?

24 MR. GOLDENSE: Objection. That
 25 calls for blatant speculation by the witness

1 A. Yes.

2 Q. Isn't it appropriate practice,
3 Doctor, to give the coroner as much information
4 about the person's death and the event that led
5 up to that death as possible?

MR. GOLDENSE: Objection.

7 You may answer.

8 A. Yes, sir.

9 Q. Is there any reason to believe that
10 in this case that information was not provided
11 to the coroner's office?

12 A. It doesn't appear in his thinking
13 as reflected in the death certificate.

14 Q. When you say, "It doesn't appear in
15 **his** thinking," does that mean the coroner did
16 not indicate that he had insufficient or lack
17 of information in the events concerning the
18 person's death and the events that led up to
19 the death?

20 A. Now you're getting hypothetical and
21 I think in a hospital where you have a release
22 sheet, which the funeral director signed, which
23 would have accompanied the body to the county
24 morgue.

25 Q. All right.



1 A. Based on this sheet, that is all
2 the coroner has to go on.

3 Q. Can you find that sheet in the
4 record?

5 A. All I'm finding here is the coroner
6 notified of death. Where the heck is the
7 release sheet?

8 Because you have the body released
9 to the coroner and the sheet which accompanies
10 the body to the morgue.

11 MR. BUCK: The last page says
12 coroner notified of death.

13 A. Here we are. Page 4 in the
14 hospital records, Statement and Particulars in
15 the Death of: Mary Lou Brown.

16 Q. What page?

17 A. It's unnumbered. One that follows
18 page.

19 MR. GOLDENSE: At the top it says,
20 "This form should accompany the body to the
21 county coroner's office."

22 Can you find it?

23 MR. LICATA: Yes.

24 A. Now this information is all that
25 Sam would have had available.

1 Q. "Sam" meaning the coroner?

2 MR. GOLDENSE: You keep making an
3 assumption that **Sam** Gerber, in any way shape or
4 form, performed the autopsy. If he was even
5 in -- I think he was living in Wade Park. We
6 all know that it's the coroner's stamp.

7 A. Yes. The office of the coroner.

8 Q. This page that you're referring to,
9 the form that should accompany the body to the
10 coroner's office, specifically sets forth in
11 two separate sections, the first section being
12 here where it says, "Symptoms, subjective and
13 objective, clinical, x-ray and laboratory
14 findings"?

15 A. Yes, sir.

16 Q. The second section below where it
17 says, "Therapy instituted including
18 operations"?

19 A. Yes, sir.

20 Q. In reading both of those it
21 indicates, does it not, that there was
22 replacement of the endotracheal tube, pulmonary
23 resuscitation, and it provides other
24 information relevant to the problems that arose
25 during the surgical procedure in Mary Lou



1 Brown's case?

2 A. I don't know. But I can't read all
3 of this writing. Can you?

4 Q. I could read some of it.

5 A. I'm reading 75 percent.

6 Q. Take a moment and read what you can
7 on this form and tell me when you're done.

8 In your opinion, what is the
9 probable cause of death? Cardiac arrest?

10 MR. GOLDENSE: He wants you to
11 start reading right here.

12 Q. I'd like you to look at the whole
13 form and read it as much as you can.

14 A. Okay. They're mentioning the
15 procedure, how far they had gotten, and the
16 fact that she had the endotracheal tube, was
17 replaced, the resuscitation was carried out
18 without response, sir, and the various drugs
19 which were administered during the period of
20 resuscitation.

21 Q. Does it not also indicate there was
22 general anesthesia?

23 A. Yes.

24 Q. Wouldn't you agree if this were to
25 accompany Mary Lou Brown's body to the coroner

1 that this should put the coroner at least on
2 notice that there was a problem of death
3 resulting from mismanagement of anesthesia?

4 MR. GOLDENSE: Objection.

5 If you know you can answer that.

6 A. I don't know about the Cuyahoga
7 County office.

8 Q. When you were a coroner, Doctor, if
9 you had received this form, would this form, in
10 your mind, raise the question that cause of
11 death would have been the result of anesthesia
12 mismanagement?

13 MR. GOLDENSE: Objection.

14 A. Oh, yes.

15 Q. And that's something you would
16 attempt to rule out or determine as the
17 proximate cause of the death?

18 A. Yes.

19 Q. That would be something that you
20 would ultimately report in your coroner's
21 report, in other words, the cause of the death,
22 having considered those possibilities?

23 A. Would I put it down in writing? I
24 think I would. As well as having a talk with
25 the people involved,

1 Q. Doctor, I don't think I need to ask
2 you anything else about this yet. Going back

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9 Q. Sinografin is one?

10 A. Let me elaborate just a tad because
11 the contents of sinografin which would cause
12 this would be the iodine.

13 She may have some history or
14 previous allergy to iodine. Dr. Hamshari
15 preped her with iodine, she didn't show any
16 rash or any reaction to it. So I would not
17 expect her to have any anaphylactic reaction to
18 iodine introduced into her uterine cavity, and
19 with the of history, you don't get anaphylaxis
20 on the first exposure.

21 Anaphylactic occurs as
22 hypersensitive reaction in repeat exposure.
23 She has no history or even rash. She doesn't
24 develop a rash when a surgeon preps you with
25 iodine containing reagent. I don't see how she

1 could show anaphylaxis to iodine containing
2 salt when she has no history to make
3 representation.

4 Q. You're telling us that sinografin
5 is from iodine?

6 A. Iodine containing. That's why it's
7 radiopaque, since iodine is opaque to x-rays.

8 Q. Your understanding is that's the
9 only chemical agent in the substance that being
10 cause?

11 A. Right. No. It's complicated --

12 Q. So there are a number of things in
13 the sinografin that can ultimately cause
14 anaphylaxis, correct?

15 A. Okay. When we look at it the only
16 content mentioned in Goodman Gillman -- oh, it
17 wasn't mentioned in Goodman Gillman. It's the
18 only component they mention as proprietary is
19 iodine containing aqueous medium.

20 Q. It doesn't give the chemical
21 components?

22 A. No. The only compound that one
23 would expect an allergy to is the iodine. She
24 has no history of evidence of any iodine
25 allergy.

1 Q. You would agree though, wouldn't
2 you, Doctor, that people who have never had a
3 reaction to prior substance can still have
4 anaphylactic reaction to a substance that's
5 introduced into their body such as sinografin,
6 wouldn't you?

7 A. It's not introduced into her body.

8 Q. Why not?

9 A. When you say introduced into the
10 body, you're implying that it's introduced
11 within her system.

12 Q. It's introduced into her cervical
13 area?

14 A. It's directed to the atmosphere.

15 Q. There are two things. One, if the
16 body absorbs that substance because it's water
17 soluble that could ultimately produce your
18 reaction?

19 A. If any were absorbed.

20 Q. Second, if it's forced into the
21 cervix for whatever reason by way of, let's
22 say, tissue injection, that's another way that
23 you could have anaphylactic reaction, correct?

24 A. Yes, sir. Putting it into the
25 uterine cavity is not introducing it into the

1 body.

2 Q. You could have the anaphylactic
3 reaction by introducing it into the uterine
4 cavity?

5 A. **If** it's absorbed.

6 Q. If it's absorbed or alternatively
7 the substance is forced into the tissue?

8 A. Yes, sir. That's why he puts the
9 stuff in before the D & C because a curettage
10 may open vascular channel.

11 Q. I'm going to ask you something a
12 little different. When do you pre-oxygenate
13 the patient?

14	A. It depends.
----	----------------

15 Q. Is there any basis for
16 pre-oxygenating a patient such as Mary Lou
17 Brown?

18 A. Oh, yes.

19 Q. Was she pre-oxygenated in this
20 case?

21 A. First I'll have to ask you to

23 Q. Why don't you tell me what you

1 A. Pre-oxygenation can occur either of
2 two ways. You could give the person
3 supplemental oxygen to inhale before you give
4 them anything. In this case, Miss Brown was
5 given oxygen by mask after she was put to sleep
6 before the tube was put down. The other types
7 of pre-oxygenation, as I mentioned, would be
8 giving supplemental pre-oxygen before you do
9 the thing -- for 10 or 15 minutes before the
10 procedure to wash out the nitrogen before you
11 start the anesthetic.

12 Q. That was not done in this case?

13 A. I don't believe so, sir.

14 Q. Would you agree that you don't need
15 pre-oxygenation in a routine case?

16 A. Of the type I mentioned before the
17 anesthetic **is** started, no. You don't need it
18 in a routine case. The other type I mentioned
19 before where you give oxygen before the tube,
20 yes, you do.

21 Q. So the oxygen mask before
22 intubating is the kind where you **do** need
23 pre-oxygenation in a routine case?

24 A. Where you're paralyzing the person,
25 yes. You want to get as much oxygen into him



1 in a few breaths as you can before intubating
2 them.

3 Q. Would you agree that, the Plaintiff
4 in this case, Mary Lou Brown, her functional
5 residual capacity is probably less because of
6 her size?

7 MR. GOLDENSE: Objection.

8 Measured at what point in time,
9 functional residual capacity?

10 MR. LICATA: Right.

11 MR. GOLDENSE: Measured when?

12 MR. LICATA: At any time.

13 THE WITNESS: Should I answer?

14 MR. GOLDENSE: Yes.

15 A. Her FR? My definition, yes, it is
16 down.

17 Q. Would you agree, Doctor, that there
18 is no evidence in the records that Mary Lou
19 Brown had any changes consistent with hypoxia
20 until asystole?

21 A. No. Bradycardia could very well
22 have been hypoxia.

23 Q. Other than the bradycardia is there
24 any other changes that you noted that were
25 consistent with hypoxia up until asystole?

1 A. Let me look again. No, sir.

2 Q. Doctor, do you attach any
3 significance at all to the x-ray finding or the
4 x-ray report taken after CPR was unsuccessful
5 which is page 16?

6 A. On 16.

7 MR. GOLDENSE: The question is do
8 and you attach any significance to that
9 report?

10 Q. At it pertains to the opinion
11 you've rendered today?

12 A. Yes, sir.

13 Q. What is that significance you
14 attach?

15 A. Nothing. What little I do, this
16 patchy density business could be atelectasis
17 rather than pulmonary edema.

18 Q. Which means?

19 A. The atelectasis being areas that
20 lungs collapsed -- where parts of the lung, all
21 the gases have been collapsed in the alveoli.
22 The lung collapse will give exactly the same
23 appearance as the patchy density, which here
24 Dr. Patel is determining as pulmonary edema.
25 Patchy atelectasis will give you the same



1 picture.

2 The gaseous distention of the
3 stomach, one does not normally see that with
4 the routine endotrachea anesthetic. The
5 endotrachea tube being present, I'm touched by
6 that because always you take just anterior
7 posterior view to make sure the tube is not
8 down too far.

9 This doesn't tell you whether the
10 tube is in the trachea or not. You have to
11 take a lateral shot from the side to indicate
12 where the tube actually is. This just tells
13 you how far down the tube is, down whatever
14 passage it happens to be in.

15 Q. Is there anything else that you
16 attached any significance to as it pertains to
17 your opinion today?

18 A. No.

19 Q. So would you agree, Doctor, that
20 it's not uncommon for anesthetic gases to be
21 forced into a patient's stomach without the
22 anesthetic process?

23 A. Not with an endotracheal tube.

24 Q. Would you agree that mask breathing
25 can force gas into the anesthesia patient?



1 A. Yes. If you squeeze real hard.

2 Q. Do you agree that changing the
3 endotrachea tube in the middle of anesthesia
4 could force gas into the patient's stomach?

5 A. No.

6 Q. Why not?

7 A. You said changing the tube?

8 Q. Right.

9 A. Changing the tube, you aren't
10 ventilating the patient without the tube. So
11 if your first tube was down the trachea, the
12 gas has been forced into the stomach. You pull
13 out that tube, put another one down the
14 trachea, no gas has been forced into the
15 stomach.

16 Q. Would you agree that CPR efforts
17 typically force gas into the patient's stomach?

18 A. Not in the presence of an
19 endotracheal tube.

20 Q. Under no circumstances at all?

21 A. Because all the gases are being
22 delivered into the trachea and lungs, none into
23 the stomach.

24 Q. But isn't it true that through CPR
25 efforts that there is a significant volume of



1 gases, some of which find their way into the
2 stomach?

3 A. No, sir.

4 Q. Is there --

5 A. In fact, usually it goes the other
6 way. As you are pushing on the chest.

7 Q. Is there any other explanation as
8 to why there would be gaseous distention of the
9 stomach other than the placement of the
10 endotrachea tube in the esophagus?

11 A. You're mask breathing initially
12 after the patient is paralyzed before the
13 endotracheal tube is passed. You're squeezing
14 the bag and forcing oxygen in through the mask
15 over the nose and mouth. Some gas may go into
16 the stomach.

17 Q. Does that account for gaseous
18 distention of the stomach?

19 A. As time goes on this is absorbed in
20 the stomach.

21 Q. How long is time?

22 A. An hour. By the time the patient
23 wakes up there is no more gas in the stomach.

24 Q. If the patient is masked and gas is
25 stored in the patient's stomach and the x-ray



1 is taken of that stomach within an hour?

2 A. Some would still be there.

3 Q. You would see the gaseous
4 distention of the stomach on the x-ray?

5 A. No distention. Distention refers
6 to a large quantity. You should see some, but
7 I wouldn't expect it to be distended.

8 Q. Would you agree if you were masking
9 the patient long enough to force sufficient air
10 and gases through the nose into the stomach
11 that you would ultimately have distention of
12 the stomach?

13 A. If you're using excessive pressure
14 over a long period of time. With normal
15 pressure it doesn't occur.

16 Q. I missed the point you made about
17 the patchy density. You use the word --

18 A. Atelectasis. Those are collapsed
19 lung tissues. Nonair-bearing tissue in the
20 lung.

21 Q. Atelectasis is the result of a
22 collapsed portion of the lung because of no
23 oxygen to that portion of the lung?

24 A. No gas is delivered.

25 Q. No gas is delivered to the lung?

1 A. Yes, sir. Or absorption of all
2 gases which had been in that part of the lung.

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10 blood circulating. So the gases would no
11 longer be absorbed from the lung.

12 Q. So what you're saying is that if
13 blood is circulating with insufficient oxygen
14 in it that that can result in atelectasis?

15 A. If blood is circulating in
16 insufficient oxygen, no this wouldn't give
17 atelectasis.

18 Q. I guess I'm not sure I understand
19 the significance in that finding as it pertains
20 to your opinion?

21 A. The blood is circulating, picking
22 up the gases from the lungs, and the gases are
23 not being replaced in the lungs. Okay.

24 Q. All right. So the gases are not
25 being replaced because why?

1 A. Because they aren't being delivered
2 to the lungs.

3 Q. Can that occur even if the
4 endotracheal tube is in the correct place?

5 A. No.

6 Q. Is **it** your opinion that the only
7 time you could have this atelectasis during the
8 general anesthetic procedure is if the
9 endotracheal tube is in the esophagus?

10 MR. GOLDENSE: Objection. That's
11 not a fair rendition of what he said.

12 Go ahead **if** that's your opinion.

13 A. No. That's not. The only time you
14 get atelectasis.

15 Q. When else?

16 A. In the presence of antecedent
17 infection where the bronchi would be inflamed
18 and air is not going in and out preoperatively.

19 Q. What else?

20 A. With bronchocontriction, like in
21 the asthmatic attack which we mentioned,
22 atelectasis will develop there in the presence
23 of obstruction, mucus, foreign body, any
24 reason.

25 Q. Would you agree that the

1 atelectasis could be consistent with the upper
2 respiratory infection that Mary Lou Brown had?

3 A. Not when she's cleared
4 auscultation. There is no evidence.

5 Q. There is no evidence of what?

6 A. Pulmonary obstruction or any
7 function in her lungs.

8 Q. Is it your opinion, to a reasonable
9 degree of medical certainty, that this woman
10 had atelectasis as opposed to patchy density
11 that indicates pulmonary edema?

12 A. Her pre-op chest plate shows
13 nothing abnormal. Even a normal cardiac --
14 your question is could this?

15 Q. **No.**

16 A. Do I think it's atelectasis rather
17 than pulmonary edema?

18 Q. To a reasonable degree **of** medical
19 certainty.

20 A. It could be either one.

21 Q. You don't have an opinion as to
22 whether it is one or the other?

23 A. On autopsy --

24 Q. One step at a time. Do **you** have an
25 opinion as to whether it's one as opposed to

1 the other?

2 A. No. It could be either, sir, on
3 the basis of lung x-ray.

4 Q. You didn't see these x-rays I
5 assume?

6 A. No.

7 Q. I assume that you haven't seen the
8 x-ray films?

9 A. No.

10 Q. Doctor, would you agree that gas in
11 the stomach does not necessarily indicate that
12 the endotracheal tube was in the esophagus?

13 A. Oh, yes. This could be air
14 swallowing before she ever comes to surgery, if
15 she's nervous.

16 Q. Doctor, would you agree that if the
17 endotracheal tube is in the proper place that
18 **you** will hear good vascular air movement
19 bilaterally in the lower portion of the lung
20 vesicular?

21 Would you agree that if the
22 endotracheal tube is in the proper place you
23 would hear visicluar air movement bilaterally
24 in the lower portion of the lung?

25 A. With an adequate tidal volume, yes.

1 Q. Would you agree that the
2 appropriate manner of intubation is direct
3 visualization?

4 A. In this case, yes.

5 (Recess had.)

6 Q. Just a couple of follow-up
7 questions. One, I'm not sure I asked you, in
8 fact I don't think I did ask you, how long the
9 effects of succinylcholine last?

10 A. A couple of minutes.

11 Q. How long does the atracurium last?

12
13 probably 10 minutes.

14 Q. Using both succinylcholine and
15 atracurium together?

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1 by the succinylcholine, then the duration of
2 the atracurium is less?

3 A. No. More.

4 Q. Longer?

5 A. Yes.

6 Q. But the effects of the
7 succinylcholine is only two minutes?

8 A. Transient two, three, four minutes.

9 Q. After the succinylcholine is given,
10 how long did the atracurium last?

1 A. I would guess 10 minutes.

1 Q. Atracurium effect is 10 minutes if
13 you give it with the succinylcholine?

14 A. Yes, sir.

15 Q. For whatever reason you abort the
16 procedure and you don't give the
17 succinylcholine, how long does it last?

18 A. Three milligrams I wouldn't expect
19 to do a doggone thing. She might say I can't
20 close my hand real tightly but she'd be able to
21 breathe.

22 Q. Other than the opinions that we
23 explored today, Doctor, do you have any
24 criticisms or opinions concerning the care and
25 treatment rendered to Mary Lou Brown on May 6,

1 1985 by all actors concerned, by Dr. Hahn, Judy
2 Daus or any of the other personnel? Do you
3 have any other criticisms other than what we've
4 discussed today?

5 A. I think we covered everything, sir.

6 Q. Do you expect to read Dr. El
7 Hamshari's second deposition?

8 A. Once that becomes available to me,
9 yes, sir.

10 Q. If any of these opinions change, or
11 if the basis for your opinions are all
12 different, whether they be different in the
13 same respect or totally different, based on
14 your review of Dr. El Hamshari's second
15 deposition, or based on anything else that may
16 come to your attention between now and the
17 trial, would you please tell Mr. Goldense that
18 so we would have another opportunity to inquire
19 about those additional opinions or the bases?

20 MR. GOLDENSE: Would you please
21 tell me. That's his question.

22 A. Any change?

23 Q. Any change.

24 MR. GOLDENSE: Would you relate
25 those to me.



1 THE WITNESS: Yes, sir.

2 Q. What I mean by any change **is** if you
3 find something in Dr. El Hamshari's deposition
4 that further supports your opinion, I need to
5 know that.

6 A. I wouldn't be telling you. I'll be
7 telling **Mr.** Goldense.

8 Q. Exactly. And he could communicate
9 it **to** me and we could decide whether we need to
10 inquire further about that supplemental or
11 different opinion. Is that fair enough?

12 A. Yes, sir.

13 MR. LICATA: I don't have any other
14 questions.

15 MR. BUCK: No questions.

16 (Discussion off the record.)

17 THE WITNESS: I do not waive.

18 (Deposition concluded.)

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1 CERTIFICATE

2 The State of Ohio,)

3 SS:

4 County of Cuyahoga.)

5
6 I, Claudine Kelly, a Notary Public
7 within and for the State of Ohio, duly
8 commissioned and qualified, do hereby certify
9 that the within named witness, PAUL J. KOPSCH,
10 M.D., was by me first duly sworn to testify the
11 truth, the whole truth and nothing but the
12 truth in the cause aforesaid; that the
13 testimony then given by the above-referenced
14 witness was by me reduced to stenotypy in the
15 presence of said witness; afterwards
16 transcribed, and that the foregoing is a true
17 and correct transcription of the testimony so
18 given by the above-referenced witness.

19 I do further certify that this
20 deposition was taken at the time and place in
21 the foregoing caption specified and **was**
22 completed without adjournment.

23
24
25
Cefaratti Rennillo

& Matthews

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1 I do further certify that I am not
2 a relative, counsel or attorney for either
3 party, or otherwise interested in the event of
4 this action.

5 IN WITNESS WHEREOF, I have hereunto
6 set my hand and affixed my seal of office at
7 Cleveland, Ohio, on this 15th day of
8 August, 1989.

9
10
11
12
13 Claudine Kelly
14 Claudine Kelly, Notary Public
15 within and for the State of Ohio
16

17 My commission expires November 8, 1992.
18
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24
25

March 9th, 1988.

DOC. 244

El Hamshari, as well as much of her hospital

Her previous health had been good, save for hypertension for which she had been receiving medication from Dr. El Hamshari. Her height is given as 5'5", her weight is 240 pounds. Post mortem she was measured as 5'8", 262 pounds. She was recovering from an upper respiratory infection. Her chest plate was not remarkable. She had a full upper denture which was removed preoperatively.

She was taken to surgery for an elective gynecological procedure. There was no



premedication. Anesthesia was commenced at 11:45 a.m. with intravenous atropine sulfate 0.4 mg., Vesprin two mg., atracurium 3 mg. and fentanyl 3 cc's. Sodium pentothal 500 mg. and succinylcholine 120 mg. were used for induction. Orotracheal intubation with a #7 endotracheal tube is noted as atraumatic. Nitrous oxide and ethrane are noted as "wheezing."

Bradycardia, with a pulse rate of less than 30 is noted at 12:05 p.m. after the surgery was well underway. The next note is that atropine sulfate 0.4 mg. was given IV without response and

and ethrane are turned off and cardiopulmonary resuscitation is begun. CPR was continued with no effective response until she was pronounced dead at 1:50 p.m..

There are several things quite wrong with the anesthesia management of this case. Vesprin is a long-acting tranquilizer akin to Thorazine, and its stated intravenous dosage is one mg.

There is nothing on the chart to indicate any assisted or controlled respirations, which forces us to the conclusion from the anesthesia record

1 that this paralyzed and intubated patient was left
2 to breathe spontaneously. If so, her ventilation
3 is manifestly inadequate.

4 From Miss Daus' deposition, the patient was
5 put on a ventilator following intubation. She is
6 recalling this at a remote time. It is not
7 charted. And she tells us that she put the
8 patient on 850 cc's tidal volume at a respiratory
9 rate of 10 times a minute. At no time does she
10 mention the developed pressure and every
11 ventilator has a pressure gauge on it.

12 From the sequence of events, intubation and
13 cardiac arrest seven minutes later, this exactly
14 fits a failure of delivery of an adequate oxygen
15 concentration to the patient's lungs. Whether
16 it's from a kinked endotracheal tube, a Y at the
17 connection between the hoses and the endotracheal
18 tube connector which is left closed so that the
19 volume is not delivered to the patient but instead
20 is delivered to the atmosphere, whether it is a
21 torn bellows in the ventilator which was not
22 observed, any one of these multiplicity of causes
23 can cause this failure of delivery of the gas
24 mixture to the patient's lungs. And we are left
25 completely in the dark on this.

Her failure of response to an hour and a half of resuscitation indicates a prolonged period of hypoxia or anoxia. Her vital machinery was wrecked. And she showed no response to resuscitation. Somewhere along the line there is a failure of ventilation.

Part of this dismal picture is painted by the postop Finishing Notes, which are made on the chart and then crossed out when trouble supervenes. Somebody was in an awful hurry. And a #7 tube is almost too small a diameter to efficiently handle the tidal volume needed for a large lady.

Sincerely yours,

(signature waived)

Paul J. Kopsch, M.D.

C E R T I F I C A T E

I, Kathleen A. Hopkins, a stenotype reporter, do hereby certify that I attended the taking of the foregoing statement, wrote the same in stenotype, and that this is a true and correct transcript of my stenotype notes.

Kathleen A. Hopkins, Notary Public
My commission expires 1-8-90
Filed in Lorain County, Ohio