

IN THE COURT OF COMMON PLEAS

CUYAHOGA COUNTY, OHIO

CASE NO. 272927

DOC. 444

RICHARD D. SHALLENBERGER, )  
et al., )

Plaintiffs, )

versus )

CLEVELAND CLINIC FOUNDATION, )

Defendant. )

DEPOSITION OF

DAVID P. VOGT, M.D.

- - - - -

Deposition of DAVID P. VOGT, M.D., a Witness  
herein, called by the Plaintiffs for Cross-Examination  
pursuant to the Ohio Rules of Civil Procedure, taken  
by me, the undersigned, Linda McAnallen, a  
Stenographic Reporter and Notary Public in and for the  
State of Ohio, at the Cleveland Clinic Foundation,  
Cleveland, Ohio, on April 5, 1995, at 9:10 a.m.

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APPEARANCES:

On Behalf of the Plaintiffs:

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On Behalf of the Defendant:

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## I N D E X

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1 WHEREUPON,

2 DAVID P. VOGT, M.D.,

3 who, after being first duly sworn, testified as  
4 follows:

5 CROSS-EXAMINATION

6 BY MR. SLAGLE:

7 Q. For the record, would you please state and spell your  
8 name, first and last?

9 A. David, D-a-v-i-d, Paul Vogt, V-o-g-t.

10 Q. And what is your current address?

11 A. Professional or --

12 Q. Yes, professional address.

13 A. The Cleveland Clinic Foundation.

14 Q. Dr. Vogt, have you been deposed before?

15 A. Yes, I have.

16 Q. My name is Larry Slagle. I represent Richard  
17 Shallenberger, and I'll be asking you a lot of  
18 questions about his care and what you may remember  
19 about it, what you know from the records. Much of  
20 the information we have to get, we have to get from  
21 you, because you were the treating surgeon, as I  
22 understand it, for the most part, also because you  
23 were present at the time, and records themselves may  
24 be somewhat inaccurate or they may be confusing to  
25 us.

1 I don't mean to trick you at any time,  
2 although certainly there will be questions I'll ask  
3 you that you may think that's what I'm trying to do.  
4 All I'm asking for is that you answer the questions  
5 the best you can. If you don't understand a  
6 question, ask me to repeat it. If I mispronounce  
7 something -- and particularly in medical depositions,  
8 that's highly likely with me. If I do so, and you  
9 feel that you can't answer the question because I'm  
10 not giving you a proper pronunciation of the word,  
11 ask me to spell the word perhaps or whatever is  
12 necessary for you to fully understand the question.  
13 Is that okay?

14 A. Fine.

15 Q. You said you have testified before, Is that correct,  
16 or you've given a deposition?

17 A. Yes, I have.

18 Q. How many times have you done that?

19 A. Probably half a dozen.

20 Q. In what kind of capacity?

21 A. Both on the plaintiff and -- both sides.

22 Q. As an expert witness or as a fact witness?

23 A. As a fact witness. Well, I guess I should --

24 MR. PARKER: As a treating physician?

25 A. As a treating physician, correct. I have not

1 testified as an expert witness who is not involved in  
2 the case,

3 Q. Obviously when you testify even as a treating  
4 physician, you're testifying as an expert in many  
5 instances or you can be. There can be a comingling  
6 of what you're discussing; is that a fair statement

7 A. Yes.

8 Q. I've been handed by Mr. Parker a curriculum vitae,  
9 which as I saw didn't have a date, but I've been  
10 advised this is not your most current one.

11 A. That's correct, it is not the most current one.

12 Q. Do you have any idea when this was prepared and when  
13 the most current one would be in relationship to it?

14 A. I really don't know for certain. That's probably at  
15 least a few years old.

16 Q. And how does this change from your more current  
17 curriculum vitae?

18 A. The only changes would be perhaps in the bibliography  
19 and perhaps some of the medical societies. The  
20 educational aspects, training aspects, those are  
21 unchanged.

22 MR. PARKER: Are your positions and  
23 appointments the same?

24 A. Yes, my positions and appointments are the same.

25 MR. SLAGLE: Should we mark this one,

1 or will you provide me with another one?

2 MR. PARKER: I think you're wasting your  
3 time to mark that one. I'll provide you with  
4 another one.

5 Q. Okay. Will your current vitae also update your  
6 articles?

7 A. Yes.

8 Q. And contribution and stuff?

9 Yes.

10 One question. Abstracts and posters. What is a  
11 poster?

12 A. A poster at a scientific meeting is just that.  
13 Usually you have a couple of tiers of being able to  
14 present your work at a national meeting. One is that  
15 you actually are picked to give a presentation, a  
16 paper, which is usually a ten to fifteen-minute talk.  
17 The other is a poster, which means that you make a  
18 poster, which is essentially your paper in sort of an  
19 abbreviated form, and then those are displayed in a  
20 hall. So it's kind of like the next step down from  
21 being permitted to go and give a talk, but it's  
22 essentially sharing your information at a national  
23 meeting.

24 Q. Would the poster be published anywhere?

25 A. The poster would not necessarily be published. That

1 varies with the society that the meeting was about.  
2 Some of those societies print all the posters and  
3 abstracts that were submitted, and some only print  
4 those that were picked for formal presentation.

5 Q. Now, looking at your vitae that I've been given, it  
6 would appear you've done a fair amount of publication  
7 and work regarding liver transplantation. Would you  
8 consider yourself an expert or exclusively a liver  
9 transplant surgeon now?

10 MR. PARKER: What's the question? Does

11 he consider himself exclusively --

12 Q. A liver transplant surgeon.

13 A. I would consider myself to have considerable  
14 experience and some expertise in liver  
15 transplantation, but that is not my sole function  
16 here.

17 Q. What other surgery do you do?

18 A. I do general surgery. I do other hepatobiliary,  
19 liver, gallbladder, pancreas type surgery as well.

20 Q. What type of training did you have in liver  
21 transplantation surgery, if any, prior to 1985?

22 A. My training consisted of spending about eight to ten  
23 weeks at the University of Pittsburgh with Dr.  
24 Starzl, Dr. Bud Shaw, and Dr. Itwatsuki.

25 Q. And when was that?



2

1 A That was in 1983, where I spent several weeks  
2 participating in the operation, care of the patients,  
3 reading, studying various publications.

4 And then after that, when I came back  
5 here, we put together a large protocol and guidelines  
6 for the whole liver transplant program, which  
7 included everyone from the liver medical specialists  
8 to the bioethicists to the psychiatrists to the  
9 surgeons. So that was a multi-specialty type sort of  
10 thing.

11 And then we organized a laboratory  
12 effort, that included people from the departments  
13 of -- like cardiac perfusion and the artificial  
14 organs department. That department specifically  
15 doesn't exist anymore.

16 And essentially we did several liver  
17 transplants in dogs to learn a little bit more about  
18 the operative steps and so on.

19 Q. You did liver transplants in dogs in 1983 and 1984  
20 then?

21 A. That's correct, primarily in 1984.

22 Q. Now, in 1983 when you were at Pittsburgh -- and  
23 that's Presbyterian Hospital, University of  
24 Pittsburgh?

25 A. Yes.

2

1 Q. Are they the sane? I don't know.

2 A. Yes.

3 Q. They are the same?

4 A. Right. Well, the University of Pittsburgh hospital  
5 is Presbyterian Hospital for adults, and then there's  
6 a children's hospital, but they're all on the same  
7 campus.

8 Q. And that's where Starzl and his group is?

9 A. Correct.

10 Q. Were they doing human liver transplantation at the  
11 time?

12 A. Oh, yes.

17 Q. How long had they been doing their liver  
14 transplantation?

15 A. Well, I think Dr. Starzl had been there probably for  
16 a couple of years or so, to the best of my  
17 recollection. And he had been in Denver for the  
18 previous twenty years before he moved to Pittsburgh,  
19 where he initiated liver transplantation in humans.  
20 I think he moved to Pittsburgh in 1979 or 1980. So  
21 I went there after he had been there for a few  
22 years.

23 MR. PARKER: I want you to listen to the  
24 question carefully-, The question was how long  
25 had they been performing liver transplants.

1 A. They had been performing liver transplants in  
2 Pittsburgh since Dr. Starzl arrived.

3 Q. Do you have any idea how many liver transplants they  
4 had performed by the time you were there?

5 A. I would have to just make an estimate. It was thirty  
6 or forty perhaps. That was in Pittsburgh.

7 Q. And while you were there, how many were you involved  
8 in?

9 A. I was involved with twelve to fifteen.

10 Q. Were you actively involved or were you more as an  
11 observer?

12 A. I was actively involved.

13 Q. Now, you said that you had set up protocols and  
14 guidelines at the Cleveland Clinic for liver  
15 transplantation. Was that for transplantation in  
16 general or was it specific to liver transplantation?

17 A. Specific to liver transplantation.

18 Q. Where those guidelines and protocols copied after  
19 those at the University of Pittsburgh or were they  
20 your own?

21 A. They were our own. Parts of those would be similar,  
22 but these were protocols that we put together  
23 ourselves.

24 Q. So they are in written form?

25 A. Yes.

2 1 Q. And they were set up in what year?

2 A. 1983.

3 Q. And are they identified as protocols and guidelines  
4 for liver transplantation or do they have another  
5 title?

6 A. I believe the title was Protocol, but I don't  
7 remember exactly what the title was.

8 Q. Is it still in use?

9 A. There have been so many changes in the evolution of a  
10 liver transplant program, that that specific protocol  
11 is not entirely in use now.

12 Q. Is there a copy of that that was in effect in 1985?

13 A. Yes.

14 Q. And where is that copy?

15 A. There is probably a copy in my office. I would have  
16 to check.

17 Q. Now, did those --

18 MR. PARKER: I want to clarify  
19 something. He asked is there a copy, and you  
20 said yes. Then when he said where, you said  
21 probably. Do you know whether there is a copy  
22 of the 1985 version or not?

23 THE WITNESS: I don't know that for  
24 certain, because I clean my files, but there  
25 may be a copy.

3 1 MR. PARKER: I just want the record  
2 clear as to that.

3 Q. Obviously if it's available in your office today, it  
4 will be available when we request it in a couple  
5 weeks.

6 A. Yes.

7 Q. That's not a concern. Now, does that protocol relate  
8 to any other protocols at the Cleveland Clinic that  
9 may tie into the transplantation procedure or  
10 follow-up care, you know, postoperative care, for  
11 instance?

12 A. I don't understand your question.

13 Q. Does it cover every aspect of pre-op, surgery, and  
14 post-op in terms of the guidelines and protocols?

15 A. Yes, it does.

16 Q. And when it does that, does that have its own  
17 sections -- for instance, I know intensive care units  
18 may have protocols and guidelines themselves. The  
19 Cleveland Clinic, for instance, does their intensive  
20 care unit have their own set of protocols and  
21 guidelines?

22 A. Yes.

23 Q. Now, do the liver transplant protocols and guidelines  
24 duplicate the intensive care protocols and  
25 guidelines?

3

1 A. No.

2 Q. Does it relate to that in the sense of rather than  
3 setting forth the same procedures to be followed in  
4 intensive care in the protocol, do they just say, you  
5 know, follow protocols of intensive care, for  
6 instance, or do you do that as a matter of practice?

7 A. The issues of critical care and that were not  
8 specifically spelled out, if that's what you're  
9 asking. I'm not understanding your questions very  
10 well.

11 MR. PARKER: Well, let me interpose  
12 an objection, in that presuming the document  
13 still exists, it speaks for itself as to its  
14 content and how it interrelates with other  
15 documents.

16 Q. When you would have a patient following liver  
17 transplantation in the surgical intensive care unit  
18 at Cleveland Clinic, which protocols would be  
19 followed, those of the intensive care unit or those  
20 of the liver transplantation unit?

21 A. The liver transplantation protocol did not  
22 specifically include all the protocols that may or  
23 may not exist for the surgical intensive care unit.  
24 So you would follow the guidelines for patient care  
25 for the surgical intensive care unit. The purpose of

3

1 the transplant protocol was not to address all those  
2 issues again.

3 Q. Good. I think you've answered my question then.

4 A. I'm trying.

5 Q. So if you're in the intensive care unit, you'd still  
6 be governed by the protocols of that unit?

7 A. That's correct.

8 MR. PARKER: Objection. That's assuming  
9 it's a matter that is governed by protocol.

10 Q. Of course, yes. Was your internship or residency at  
11 Cleveland Clinic in a specific area?

12 A. I trained for five years in general surgery and then  
13 did a vascular surgery fellowship.

14 Q. And how long was that?

15 A. One year.

16 Q. Other than going to the University of Pittsburgh  
17 where you were involved in approximately fifteen --  
18 and I'm not holding you to that, because I don't  
19 think you know for certain, do you, the number of  
20 liver transplants --

21 A. Well, I took your question to mean how many  
22 operations was I actively involved in. Actually I  
23 was exposed to the management of several more  
24 patients than fifteen. Fifteen alluded to the number  
25 of transplants that were performed during my stay

1           there, but it is in no way reflective of the number  
2           of liver transplant patients that I was exposed to  
3           there.

4   Q.   So you were exposed to many, many more than the  
5           fifteen?

6   A.   That's correct,

7   Q.   Did you have any active role in liver transplantation  
8           other than that and what you did at the Cleveland  
9           Clinic?

10  A.   No.

11  Q.   For instance, lawyers could go to seminars dealing  
12           with any number of specialties. Did you go to any  
13           medical seminars dealing with liver transplantation  
14           prior to 1985?

15  A.   I went to the N.I.H. 1983 consensus conference on  
16           liver transplantation.

17  Q.   And where was that held?

18  A.   That was held at the National Institutes of Health,  
19           which is in Washington.

20  Q.   Anywhere else?

21  A.   I don't recall specifically if I went to any other  
22           courses.

23  Q.   Were there any published materials that were used by  
24           you as a guide for liver transplantation prior to  
25           1985?



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1 A. During my stay at Pittsburgh, I had the opportunity  
2 to go through Dr. Starzl's long bibliography and copy  
3 several of his articles and read his textbook, so  
4 that was where I was able to learn as well.

5 Q. His textbook on liver transplantation?

6 A. Correct.

7 Q. Did you purchase a copy of that?

8 A. No.

9 Q. So you just reviewed it there?

10 A. That's right.

11 Q. Was it available for your use at the Cleveland Clinic  
12 when you returned?

13 A. No.

14 Q. Now, what type of training and experience have you  
15 had in postoperative care of surgical patients? Was  
16 that included, for instance, in your residency?

17 A. Yes.

18 Q. As I understand it, you were the primary surgeon for  
19 Richard Shallenberger.

20 A. Yes.

21 Q. Now, as primary surgeon, are you also responsible for  
22 his postoperative care?

23 A. Yes.

24 Q. And how long would that responsibility last? To his  
25 release from the hospital, for instance?

4

1 A. Indefinitely.

2 Q. Indefinitely. All right. Now, you remember Richard  
3 Shallenberger certainly.

4 A. Yes.

5 Q. In dealing with his particular situation, were there  
6 any facts that you were aware of that would have  
7 increased his risk of postoperative complications?

8 A. Yes, there were. Are there any specific  
9 complications you had in mind?

10 Q. I'm sure there will be, but when we talk -- There  
11 are any number of things that can go wrong during  
12 surgery and postoperatively; isn't that a fair  
13 statement?

14 A. That's correct.

15 Q. In dealing with Richard, do you remember what  
16 historically you had learned, either from him or his  
17 records or his previous treating physicians, that  
18 would in any way influence your thinking regarding  
19 his postoperative care?

20 A. Well, we knew beforehand that he would be at risk to  
21 have more complications purely from a surgical  
22 standpoint, because he had had a prior mesocaval  
23 shunt, which is an operation that is done to control  
24 bleeding from large veins in the esophagus. We also  
25 knew that he had had other operations that would make

1           the operative procedure of the transplant more  
2           difficult.

3   Q.   What were those operations that would make the  
4           procedure itself more difficult?

5   A.   Well, the major one would have been the prior shunt  
6           operation I described, and he also had several what  
7           we call peritoneojugular shunts put in to try to  
8           control his fluid in his abdomen.

9   Q.   And why would they make the surgery itself more  
10          difficult?

11   A.   Because they cause adhesion formation.

12   Q.   And the adhesions would have to be dealt with to get  
13          to the liver?

14   A.   Correct.

15   Q.   And the surrounding organs?

16   A.   Yes.

17   Q.   What do you have to do with the adhesions?  Remove  
18          them or --

19   A.   Well, an adhesion is where tissues stick together,  
20          and so the normal planes between tissues are no  
21          longer existent, and so you have to take those  
22          adhesions apart.

23   Q.   Now, did those complications come about?  I mean you  
24          knew that he had had the surgeries and the adhesions  
25          were present.  So did those adhesions themselves

4

1           cause any complications during surgery in any way?

2   A.   It did not cause any complications. It made the  
3       operation much more difficult because of the  
4       adhesions, in terms of difficulty in dissecting out  
5       the liver, the structures that you have to control to  
6       remove the liver, in terms of the blood products  
7       required and bleeding and so on. I would not view  
8       those as complications. I would view those as  
9       anticipated increases in the degree of difficulty.

10 Q.   Now, the esophageal shunt, where does that go into  
11       the body and how does that affect it?

12 A.   It's not an esophageal shunt. This is a procedure  
13       where a prosthetic graft, a little tube, is sewn from  
14       two veins, one going to the liver and one going  
15       behind the liver, to decrease the amount of pressure  
16       in the blood that's going to the liver. And that's  
17       right in the area where you have to do a major part  
18       of the operation, the transplant operation.

19 Q.   And you learned about his earlier problems from his  
20       medical records and also from discussions with him?

21 A.   Yes.

22 Q.   Now, when you were doing his preoperative workup, you  
23       obviously did that in consultation with others?

24 A.   Yes.

25 Q.   Who else was consulted regarding that preoperative

4 1 workup?

2 A. Well., he was seen of course by the hepatologists,  
3 which are the medical specialists, by ourselves, the  
4 surgeons. Everyone who goes through a liver  
5 transplant evaluation here is seen by social work,  
6 psychiatry. Particular patients, who have a history  
7 of drug dependency or alcohol, are evaluated by those  
8 subspecialists in psychiatry, and they're seen by eye  
9 bioethicists as well. In Mr. Shallenberger's case,  
10 he was also seen by a neurologist before the  
11 transplant, because he had a history of a seizure  
12 sometime prior to his transplant evaluation.

13 Q. Did you ever identify what that seizure was related  
14 to?

15 A. The specific reason was not determined.

16 Q. Did you have any discussions with anyone about what  
17 could have caused it or what was likely to have  
18 caused it?

19 A. He was seen by a neurologist, who couldn't tell  
20 exactly why it had occurred.

21 Q. There was nothing about that earlier seizure  
22 activity, however, that obviously foreclosed him from  
23 the liver transplant at that time?

24 A. It did not make the liver transplant a  
25 contraindication, no.

- 5           1    Q.    Now, as I also understand it, without the liver  
          2           transplant, Mr. Shallenberger would have undoubtedly  
          3           died.
- 4    A.    Yes.
- 5    Q.    And in not too many months?
- 6    A.    That's correct.
- 7    Q.    In liver transplantations, what are some of the  
          8           expected or anticipated complications that can arise?
- 9    A.    Well, some patients don't have any complications.  
10           Would you be more specific in your question?
- 11    Q.    Well, there's obviously risk in any surgery; correct?
- 12    A.    Correct.
- 13    Q.    And those risks are usually fully explained to the  
14           patient, so they can make what's known as an informed  
15           decision and give a consent that's informed.
- 16    A.    Correct.
- 17    Q.    So in discussing with Mr. Shallenberger those  
18           possible complications, what would have been  
19           discussed with him?
- 20    A.    You mean the possible complications of the operation  
21           itself?
- 22    Q.    Yes.
- 23    A.    The major risk, the major complication of the  
24           transplant procedure itself would be bleeding, and  
25           that's -- Are you confining yourself in the

5

1 operating room now?

2 Q. In terms of the complication or discussing it with  
3 the patient?

4 A. The complication.

5 Q. Yes, just in the operation itself at this point.

6 A. The major complication during the operation is  
7 usually related to bleeding.

8 Q. In dealing with postoperative complications -- and I  
9 understand in liver transplantation at the time,  
10 those were -- there were certainly a few of those.  
11 Did you discuss with him the possible postoperative  
12 complications?

1.3 A. The postoperative complications, the two major ones,  
14 relate to rejection and infection.

15 Q. The rejection by the body of the transplanted liver?

16 A. Correct.

17 Q. Infection caused by the surgery or infection just  
18 generally from a weakened condition? What type of  
19 infection?

20 A. Well, there are several types of infection. Some are  
21 germane to liver transplantation and some are just  
22 because of the big operative procedure.

23 Q. What would be germane to liver transplantation?

24 A. Germane to liver transplantation would be  
25 particularly what we call opportunistic type of

5

1 infections, including some of the viral infections  
2 and fungal infections.

3 Q. The fungal infections, are they a result from the  
4 Cyclosporine or from something else?

5 A. They do not result necessarily from Cyclosporine, no.

6 Q. What would they result from?

7 A. The fungal infections can result in anyone who's had  
8 a big operation. The risk factors are particularly  
9 having your system compromised beforehand, or  
10 particularly patients who have been hospitalized for  
11 a long period of time with other infections and have  
12 required long-term multiple antibiotics. Those are  
13 the particular risk factors for fungal infections.

14 Q. Had Mr. Shallenberger ever had any experience with  
15 long-term hospitalizations with antibiotics needed?

16 A. I can't tell you the answer to that. I don't know.

17 Q. Did Mr. Shallenberger suffer any of these  
18 postoperative complications?

19 A. Yes.

20 Q. Which?

21 A. He had rejection and he had infection.

22 Q. What type of infection?

23 A. He had fungal infection and he did have bacterial.  
24 infection as well.

25 Q. Were you able to identify the cause of those



5

1 infections?

2 A. Identifying the source might be a more accurate way  
3 to state it --

4 Q. All right, the source.

5 A. -- in that he grew bacteria and fungus from various  
6 body fluids and so on.

7 Q. When did those occur?

8 A. Within the postoperative period.

9 Q. Within a week of the surgery, within three weeks, if  
10 you remember?

11 A. Within the first few weeks.

12 Q. Were you able to deal with those infections without  
13 any real residual problems?

14 A. They were treated with the appropriate antibiotics.

15 Q. Now, after the surgery itself, do you continue to  
16 take control of his care and the management of his  
17 case or is that at that point delegated to others?

18 A. No, I continue to orchestrate his care.

19 Q. And what is involved in that orchestration?

20 A. Well, that means I'm primarily responsible for his  
21 care. If someone is still in the intensive care  
22 unit, then the management is sort of a joint  
23 management with the intensivist.

24 Q. And in this case, who was that intensivist?

25 A. Dr. Lockrem.

6

6

1 Q. And how did you and Dr. Lockrem communicate with  
2 each other regarding Richard Shallenberger  
3 specifically?

4 A. Spoke to each other.

5 Q. Was It on a daily basis? For instance, did you have  
6 a daily meeting?

7 A. No, not necessarily.

8 Q. Would he call on you a daily basis?

9 A. We spoke as we felt it was necessary.

10 Q. What type of understanding was there between the two  
11 of you regarding discussion of what was going on with  
12 Mr. Shallenberger in the first week following the  
13 surgery?

14 MR. PARKER: Objection as to his  
15 testifying to Dr. Lockrem's understanding.

16 Q. What was your understanding?

17 A. Well, I don't recall any specific discussions I had  
18 with Dr. Lockrem.

19 Q. Did you see Richard Shallenberger after the surgery?

20 A. Yes.

21 Q. And do you remember how many times you saw him that  
22 first week?

23 A. I saw him at least once every day.

24 Q. And do you remember having any discussions at all  
25 with Dr. Lockrem regarding his care?

6

1 A. I don't remember any specific discussion, no.

2 Q. What was Mr. Shallenberger's condition after the  
3 surgery?

4 A. Could you be a little bit more specific?

5 Q. Well, did he have any difficulties with his pulse or  
6 blood pressure, for instance?

7 A. Not immediately postoperatively, no.

8 Q. What about any respiratory difficulties?

9 A. He did require to have to go back on mechanical  
10 ventilation on the 11th of August.

11 Q. And that was how many days after surgery?

12 A. The operation was on the 8th, so two to three days  
13 afterwards.

14 Q. What are the governing guidelines regarding  
15 extubating a patient following surgery, if there are  
16 any?

17 A. There are guidelines, and the general guidelines are  
18 that they are able to adequately ventilate and  
19 oxygenate themselves, that they are awake enough to  
20 do that.

21 Q. And how is a determination like that made, just from  
22 their waking state?

23 A. There are a variety of parameters that are looked at,  
24 such as their arterial blood gases and the mechanics  
25 of how well they are breathing and so on.

6

1 Q. And who makes that determination?

2 A. Those determinations are made in large part by the  
3 intensivist.

4 Q. Are they done in any way with consulting with you at  
5 the same time?

6 A. Not necessarily, no.

7 Q. Now, after the surgery, do you remember what  
8 Mr. Shallenberger's appearance and color was?

9 A. At what point?

10 Q. Within the first several days, within the first two  
11 days.

12 A. It it appeared fine.

13 Q. Do you know when he was extubated?

14 A. I can't tell you exactly when he was extubated.

15 Q. You could tell by looking at the records obviously?

16 A. Yes.

17 Q. And as I understand it, you weren't involved in the  
18 decision regarding the extubation?

19 A. No.

20 Q. Had you discussed with anyone prior to the  
21 extubation, for instance, about any potential  
22 problems with extubating Mr. Shallenberger that might  
23 arise?

24 A. Did I discuss with anyone?

25 Q. Yes.

1 A. No.

2 Q. Were you aware of anything regarding his physical  
3 well-being and his own personal health history that  
4 would have affected his ability to breathe on his own  
5 without mechanical ventilation?

6 A. No.

7 Q. Did you give that any thought at any time?

8 A. Did I give what any thought.'

9 Q. Mr. Shallenberger's ability to breathe on his own  
10  
11 were any factors in his life or in his physical

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1 prefer to refer to your records or my copies?

2 MR. PARKER: We have eight volumes on  
3 the table. If there's a particular page that  
4 you want refer to, you might do best to show it  
5 to him.

6 (Plaintiff's Deposition Exhibit 1  
7 was marked for identification.)

8 Q. I'm going to hand you what's marked as Cardiac  
9 Intensive Care Record from the Cleveland Clinic and  
10 represent to you that these are just pages taken from  
11 Mr. Shailenberger's record, that's identified in that  
12 area of the records. I think on the second page of  
13 that, it says 8-10-85 at the **tup**, extubated by Dr. --  
14 is that Parinika? Is that correct?

15 A. I don't, know.

16 Q. Could you look at that and --

17 A. I don't know **if** that's the correct name or not.

18 Q. You can't tell by reading **it** yourself who **it** is then?

19 A. No, I can't.

20 Q. Do you have any idea? That obviously is not  
21 Dr. Lockrem.

22 A. That's correct.

23 Q. Who would make a decision regarding extubation of  
24 Mr. Shallenberger, if **it** weren't Dr. Lockrem?

25 A. It could be one of the residents in the intensive

1           care unit.

2   Q.    Would they have discussed that decision with  
3       Dr. Lockrem under your normal procedures rather than  
      doing it on their own or would they discuss it  
5       with -- well, Dr. Lockrem first. Should they have  
6       discussed that with him under your general  
7       procedures? You don't know in this specific instance  
8       whether he did or not, but generally would an intern  
9       discuss that with the primary care physician prior to  
10      doing so?

11   A.   I don't think you can presume that Dr. Parinka was an  
12      intern. He may have been a much more senior  
13      resident.

14   Q.    You don't know Dr Parinka?

15   A.    I don't know Dr. Parinka, no.

16   Q.    So you don't know if he's a senior resident, an  
17      intern, or --

18   A.    That's correct.

19   Q.    I would assume he's not an active -- How do you  
23      define it? You're on staff. Is that different than  
21      being an intern or a resident?

22   A.    Yes, it is.

23   Q.    I presume that he is not on staff or else you'd  
24      recognize the name.

25   A.    That's correct.

7

1 Q. So eliminating that, he must be either an intern or  
2 resident?

3 A. That's correct.

4 Q. Now, are you saying that in the intensive care unit  
5 in 1985 with a liver transplant patient, an intern or  
6 a resident could single-handedly make a decision  
7 regarding extubating a patient?

8 A. I think that is correct. I don't know if there is a  
9 specific policy in place in the surgical intensive  
10 care unit regarding extubation of patients and  
11 whether a resident or intern has to check with the  
12 attending on all patients before they are extubated.

13 Q. Now, in your own personal care of a patient, do you  
14 have a preference on whether or not such a decision  
15 would be discussed with you or at least that you  
16 would be advised of such a decision at some point?

17 A. I'm not clear what you're asking me.

18 Q. Well, were you advised that Dr. Parinka had extubated  
19 Richard Shallenberger?

20 A. No.

21 Q. As the transplant surgeon and the doctor who is  
22 responsible for his care and well-being, is that a  
23 piece of information you would have liked to have  
24 been told?

25 A. Not necessarily.



7           1     Q.     And why would that not be?

2           A.     Because as I mentioned earlier, the management of the  
3                patients in the surgical intensive care unit is a  
4                joint venture. Since my area of expertise is not in  
5                respiratory management, then I feel comfortable that  
6                when Dr. Lockrem or one of his designates feels that  
7                it is appropriate to extubate a patient, that that is  
8                fine with me.

9           Q.     Do you know when you saw Richard Shallenberger after  
10           his extubation? Do you know if you saw him  
11           extubated?

12          A.     Do I remember seeing him extubated?

13          Q.     Yes.

14          A.     No.

15          Q.     Do you remember being in his room and looking at his  
16                condition from that point until he was reintubated?

17          A.     I don't remember any of those specific details, no.

18          Q.     You obviously know he was reintubated.

19          A.     Correct.

20          Q.     You don't remember seeing him prior to that  
21                reintubation but after his extubation at 6:30 p.m. on  
22                August the 10th?

23          A.     I'm sorry. Repeat that, please.

24                       (The court reporter read the preceding  
25                question as follows: You don't remember seeing

7

1 him prior to that reintubation but after his  
2 extubation at 6:30 a.m. on August. the 10th?)

3 A. No, I don't have any specific recollection of ten  
4 years ago seeing him immediately extubated or  
5 reintubated.

6 Q. Would you, as the surgeon, give any type of  
7 instructions regarding his care, specific  
8 instructions?

9 A. Yes, we may give some specific instructions.

10 Q. Do you remember in his care what those may have  
11 been?

12 A. I would not be giving any specific instructions in  
13 terms of his respiratory status.

14 Q. So you're saying you would have relied totally upon  
15 the intensive care unit to deal with that issue?

16 A. Well, that's not quite accurate either. I would have  
17 relied primarily on the intensive care unit to handle  
18 that issue.

19 Q. When you say primarily, does that mean you would have  
20 hoped to have had some involvement with it?

21 A. No, but the way you stated it was as if I would have  
22 absolutely no reason to make any input. If I did not  
23 agree with their management, I would have stated so.

24 Q. If you were not advised of their management of his  
25 care, then how would you be able to disagree or agree

8

8

1 with **it**?

2 A\* I'm not certain what you're asking.

3 Q. Well, certainly the intubation of Richard  
4 Shallenberger was a point that wasn't normal in his  
5 recovery, for lack of better terms. Isn't that a  
6 fair statement?

7 A. No, I don't think **it** is a fair statement. There are  
8 patients who require reintubation for a variety of  
9 reasons.

10 Q. When that happens, do you then go and see why they  
11 required reintubation?

12 MR. PARKER: Do you mean separate and  
13 apart from the normal rounds and follow-up care  
14 that he was giving?

15 MR. SLAGLE: Correct.

1.6 A. Yes, things are looked into.

17 Q. Now, in Richard Shallenberger's instance, did you  
18 look into the need for the reintubation?

19 A. The tests were done. And by his clinical course, the  
20 conclusion from the records was that he required  
21 reintubation primarily because he was not oxygenating  
22 properly.

23 Q. Did you review those records then?

24 A. I reviewed the clinical records this morning. I have  
25 not reviewed the respiratory --

8

1 MR. PARKER: That wasn't his question,  
2 Doctor. Did you review the records then?

3 THE WITNESS: Did I review the records  
4 then?

5 MR. PARKER: At the time of treatment.

6 A. I would have to say yes, but I don't specifically  
7 remember that now.

8 Q. Do you know how the intensive care unit is supposed  
9 to keep the records regarding everything that's done  
10 with Richard Shallenberger or any patient in that  
11 unit in terms of the procedures, you know, what  
12 they're supposed to write down, what they're supposed  
13 to include in terms of time? Do you know the  
14 guidelines regarding that?

15 A. No.

16 Q. There are guidelines though?

17 A. Yes.

18 Q. Have you reviewed them yourself?

19 A. No.

20 Q. Do you know what the Clinic's rules and procedures  
21 regarding intubation are?

22 A. I don't know that there is a Clinic policy.

23 Q. Is there an intensive care unit policy regarding  
24 intubation?

25 A. Do you mean are there guidelines?

8

1 Q. Right.

2 MR. PARKER: If you know?

3 THE WITNESS: Beg your pardon?

4 MR. PARKER: If you know. Don't guess.

5 A. I don't know for sure that there are.

6 Q. You don't know if there are any written procedures at  
7 all?

8 A. I don't know that firsthand, no.

9 Q. Do you know it secondhand?

10 A. Well, I would think that there are, but I --

11 Q. You haven't discussed them with anyone?

12 A. No.

13 Q. You're just saying in your experience, in normal  
14 hospital care management there probably are written  
15 guidelines on intubation?

16 A. That's correct.

17 Q. And you, yourself, haven't read them?

18 A. I haven't read them recently.

19 Q. Have you read the Cleveland Clinic guidelines  
20 regarding intubation ever?

21 A. I don't recall.

22 Q. Do you know if there are different guidelines for  
23 intubation in the intensive care unit versus a  
24 general guideline throughout the hospital?

25 A. I don't know.

8

1 Q. Were there any written procedures or guidelines  
2 regarding intubation or extubation for the liver  
3 transplant program?

4 A. No.

5 Q. You know that, because you developed those  
6 guidelines, and you'd know if they were in there?

7 A. That's correct.

8 Q. Are there written protocols regarding the information  
9 that should be relayed to the physician in charge of  
10 a person's care in those transplant guidelines?

11 A. No.

12 Q. When a physician at the Cleveland Clinic -- you were  
13 the general physician governing Richard  
14 Shallenberger's care. Is there any type of Cleveland  
15 Clinic guideline regarding your duties and those of  
16 others working perhaps separately, like the intensive  
17 care unit is, regarding your patient but still it's  
18 your patient, in reporting back what's happening to  
19 him other than what's in the chart?

20 A. I'm not clear what you're asking. Is there a --

21 Q. A memo, a tickler system. I don't know how you'd  
22 call it. Something other than what's in the chart.  
23 And I understand each doctor can read the chart as  
24 they go into the room.

25 A. Bo you mean are there written guidelines that tell me

8

1 when I would need to call someone else?

2 Q. That's correct, or someone should have contact with  
3 you that this has happened with your patient.

4 A. I'm not aware of any written protocols telling one  
5 physician when he must communicate with another.  
6 There are some guidelines for consultation.

7 Q. And what are those guidelines?

8 A. Well, I don't recall specifically.

9 Q. There were guidelines for consultation?

10 A. There are institution guidelines for consultation.

11 Q. Institution meaning Cleveland Clinic?

12 A. Correct.

13 Q. Were there any specific guidelines set forth by the  
14 liver transplant unit regarding consultations?

15 A. **No.**

16 Q. **Bo** you know if the intensive care unit would have  
17 anything similar to the institution guidelines?

18 A. I don't know.

19 Q. **Do** you know if Mr. Shallenberger suffered any  
20 respiratory difficulties in his postoperative care in  
21 that period between August 8th, when the surgery was  
22 completed, through August 12th?

23 A. Except for the episode when he required reintubation,  
24 no.

25 Q. What was the episode, your understanding of it, when

9

9

1 he required reintubation? What happened?

2 A. That he became hypoxic and required reintubation.

3 Q. And how was it determined that he was hypoxic?

4 A. From the arterial blood gas.

5 Q. And the response to that episode was reintubation?

6 A. Correct.

7 Q. Now, in your experience prior to that time, had you  
8 been involved in monitoring people or patients that  
9 were in respiratory difficulty?

10 A. You mean do I personally manage those patients?

11 Q. Yes. Had you prior to 1985?

12 A. I had managed patients during my training and as a  
13 staff person, but not as my primary responsibility,  
14 no.

15 Q. You're just saying that in your general training up  
16 to that point, you had had contact with it, but it  
17 was not a situation in which you were studying to be  
18 an intensivist or in that nature; correct?

19 A. That's correct.

20 Q. In terms of monitoring a patient in intensive care,  
21 are there written guidelines regarding what is  
22 required in terms of monitoring that patient?

23 A. There are. I have not read them recently.

24 Q. Did the transplant unit have any type of written  
25 procedures regarding monitoring of their patients



9

1 following the transplant?

2 A. In general we had guidelines for the postoperative  
3 care, but. they were not necessarily specifically  
4 related to respiratory problems and so on. They  
5 were more germane to the transplant procedure  
6 itself.

7 Q. Those guidelines are what you think are included in  
8 what's in the office --

9 A. The protocol.

10 Q. The protocol?

11 A. That's correct.

12 Q. The reason I ask that, I don't want to be --  
13 Sometimes there might be a protocol, and then there  
14 might be individual guidelines besides. When we're  
15 talking guidelines to the transplant unit, I want to  
16 be sure that we're talking about one set of  
17 guidelines that you call the protocol, which may  
18 have several different subguidelines in it, for  
19 instance.

20 A. Well, at that time the only document that existed was  
21 the protocol, which was all-inclusive.

22 Q. So that was **it** then?

23 A. That was **it**.

24 Q. I gather later on you're saying that other guidelines  
25 have been established because there came the need to

9

1 establish them?

2 A. Well, currently we actually have a little pamphlet  
3 that we hand out to all the residents and a copy is  
4 in all the intensive care units.

5 Q. And when was that pamphlet done?

6 A. A few years ago. It's been updated once.

7 Q. After 1985?

8 A. Oh, yes.

9 Q. And was that different than what your protocol was?

10 A. Yes.

11 Q. And how did it change?

12 A. Well, it was different in that the protocol addressed  
13 putting together the whole liver transplant program,  
14 which included -- the current pamphlet is more  
15 specifically related to guidelines for evaluating a  
16 patient for liver transplant and then specifically  
17 things of postoperative care, complications, and so  
18 on. So their goals were entirely different.

19 Q. You must have been involved in the decision to  
20 develop that pamphlet.

21 A. Yes.

22 Q. What was the reasoning behind development of the  
23 pamphlet to go beyond the protocols you had  
24 established in 1985 or prior?

25 A. The major reason to do that was to share the

1 information with the residents, the house officers,  
2 the nursing floors, and the intensive care units, to  
3 give some sort of standardization and to give sort of  
4 a brief overview of liver transplantation from the  
5 preoperative evaluation through postoperative care  
6 and complications.

7 Q. Is that because the liver transplantation procedure  
8 itself has some unique factors in it that you were  
9 warning them of or was it just something to improve  
10 the image? I mean why would you do it?

11 A. Well, you would do it because transplantation in  
12 general and liver transplantation specifically have  
13 issues that are particularly related to those topics,  
14 and residents don't. get exposed to those in other  
15 general surgical or other surgical fields.

16 Q. So there's a uniqueness basically to --

17 A. There is a purpose to it.

18 Q. Do you remember seeing Richard Shallenberger in a  
19 respiratory arrest at any time or difficulties?

20 A. No.

21 MR. PARKER: An arrest or difficulties?

22 Q. Difficulties.

23 A. No.

24 Q. Do you know where you were the weekend of August the  
25 10th, 11th, and 12th? I guess the 10th was Friday,

9

1 the 11th was Saturday, and the 12th was Sunday. Is  
2 that the way it works?

3 MR. PARKER: We don't know the dates --

4 I certainly don't know the dates, August. 10th,  
5 11th, and 12th of 1985. If you want to us  
6 determine that, it could be done.

7 A. What do you mean, where was I? Was I in town?

8 Q. Yes.

9 A. Yes.

10 Q. Saturday was the 10th.

11 A. Yes.

12 Q. Sunday was the 11th.

13 A. Yes, I was here.

14 Q. Normally would you be making your rounds at the  
15 hospital?

16 A. Yes.

17 Q. Or do you have time off?

18 A. I come in seven days a week.

19 Q. Would you have made the rounds seeing Richard  
20 Shallenberger on those days?

21 A. Yes.

22 Q. So you have no independent recollection of  
23 remembering anything about him on that weekend?

24 A. No.

25 Q. August 10th, August 11th?

10

1 A. No.

2 Q. Where would the indication that you had been in his  
3 room on the 10th, 11th, or 12th show up in the  
4 record? Do you have to write it down someplace?

5 MR. PARKER: I'm going to object to the  
6 form of the question, because you're implying  
7 that **it** would have to be recorded. And **it** would  
8 not have to be recorded.

9 Q. Does **it** have to be recorded?

10 THE WITNESS: Can I ask you a question?

11 MR. PARKER: Sure. Do you want to step  
12 out?

13 THE WITNESS: Yes.

14 (A short break was taken.)

15 MR. PARKER: You need to reask the  
16 question or have **it** reread, because I've  
17 forgotten what **it** was.

18 (The court reporter read the preceding  
19 question as follows: Does **it** have to be  
20 recorded?)

21 A. The answer is no.

22 Q. If **it** were recorded, where would that be?

23 A. If I wrote a note, **it** would be in the clinical notes.  
24 And there is a note recorded by me on the 10th of  
25 August.

10

1 Q. Are those the intensive care records or is that  
2 the --

3 A. The clinical notes.

4 Q. What does that note say, since you obviously have it  
5 there?

6 A. It says looks fairly good, pressures are up from  
7 fluid, serum creatinine still rising, although urine  
8 output is now good, prothrombin time good, hope for  
9 extubation today.

10 Q. That is on the 10th?

11 A. Yes.

12 Q. What time were you there on the 10th, does it say?

13 A. No.

14 Q. What's your policy? What time would you start your  
15 rounds on the 10th?

16 MR. PARKER: Objection.

17 A. No policy. Could be there at any time during the  
18 day.

19 Q. Do those notes reflect when you next see Richard  
20 Shallenberger?

21 A. Not necessarily.

22 Q. Well, you're reviewing them, and you're saying you  
23 don't see anything in there about --

24 A. I saw Mr. Shallenberger at least once a day. My  
25 presence may not necessarily be reflected in the

10

1 clinical notes, because I may not have put a note.

2 One of my residents -- my senior resident would have  
3 put a note every day.

4 Q. And who is your senior resident?

5 A. At the time it was Dr. Mark Jaroch.

6 Q. And where is he now? Is he at the Clinic?

7 A. No, he's in the Akron area.

8 Q. Do they show when he was there then?

9 A. Just the date.

10 Q. And when was that?

11 A. Every day.

12 Q. Oh, there's a signature of him every day being  
13 there?

14 A. Yes.

15 Q. Oh, okay. Would you have been there with him, you  
16 mean?

17 A. I would have been there with him at some time, not  
18 necessarily when he wrote the note.

19 Q. Would he have been notified instead of you about any  
20 type of respiratory problem?

21 A. Not necessarily.

22 Q. And you are not familiar with any policies, rules,  
23 regulations, guidelines governing extubation or  
24 intubation personally?

25 A. Correct.

10

1 Q. So you don't have any specific information. You rely  
2 on the intensive care unit doctor to deal with that  
3 issue?

4 A. Primarily, yes.

5 Q. What drugs and medications did you prescribe for  
6 Mr. Shallenberger prior to August 12, 1985, and after  
7 his surgery?

8 MR. PARKER: Do you want him to testify  
9 from recollection or do you need him to find  
10 the medication records and read all those?

11 A. I would have to look at the medication records.

12 Q. Well, if you could.

13 MR. PARKER: I have some copies here.

14 THE WITNESS: Okay.

15 MR. PARKER: I don't know how readable  
16 they are.

17 THE WITNESS: Okay.

18 MR. PARKER: Off the record.

19 (Discussion was had off the record.)

20 Q. What medications did you prescribe for him following  
21 surgery and prior to August 12th?

22 A. Prior to surgery?

23 Q. No, after surgery and prior to August 12th.

24 A. Well, I don't think I can tell you exactly what  
25 medications I personally prescribed. I personally



1 may not have written the orders for any of these  
2 medications but may have had my residents write the  
3 orders for some of these medications.

4 Q. Well, if they would have written an order for a  
5 medication, it would have come from you?

6 A. It would be signed by them, and they could have  
7 written an order for some medications that I did not  
8 instruct them to put him on.

9 Q. Well, what medications are shown there as being given  
10 and prescribed for Richard Shallenberger from after  
11 his surgery until August 12th?

12 A. Well, he was on Solu-Medrol, Mycostatin, Alternagel,  
13 Aldomet, Cyclosporine, Hydralazine, hydrochloride  
14 drip, morphine sulfate, Diamox, Ampicillin, Claforan,  
15 Haldol, Tylenol, Dopamine. That's all.

16 Q. What was the purpose of these medications? They all  
17 had various purposes obviously and there are numerous  
18 of them; correct?

19 A. Correct.

20 Q. Solu-Medrol?

21 A. Solu-Medrol is a steroid, which is part of his  
22 immunosuppressive medications, anti-rejection  
23 medication.

24 Q. What was the dosage?

25 A. It was what we call a taper. It started at a total

11

1 of 200 milligrams per day and it tapered down to 20  
2 milligrams per day over the course of five days.

3 Q. And was that a pill, injection?

4 A. Intravenous.

5 Q. What about Mycostatin?

6 A. Mycostatin is an anti-fungal preparation that is  
7 usually given to swish around in the mouth and  
8 swallow or put down the nasogastric tube.

9 Q. Rather than go through all of these, have any of  
10 these medications that were prescribed for Richard  
11 Shallenberger, not necessarily by you, either  
12 individually or when used in combination with  
13 others been discontinued by your liver transplant  
14 unit?

15 A. By discontinued, do you mean that we don't use them  
16 at all anymore?

17 Q. You may not at all or not in conjunction with other  
18 medications being given out of that list.

19 A. No.

20 Q. So you're saying that of those medications you've  
21 listed, you have not found any problems with the use  
22 of those medications as a general rule or in specific  
23 circumstances for that matter?

24 MR. PARKER: I'm going to object to the  
25 form of the question. I don't think any doctor

11

1 can answer that question affirmatively.

2 A. No, I didn't say that.

3 Q. You didn't say what?

4 A. What you just said.

5 Q. Have some of them been eliminated from use in  
6 conjunction with or perhaps all the time?

7 A. No.

8 Q. Because as I understand it, this was the seventh  
9 liver transplant that the Clinic had done, Mr.  
10 Shallenberger's.

11 A. Could be. I don't remember the exact number it was.

12 Q. Was he the first one to survive after a -- I think  
13 some of them survived the surgery and --

14 A. No, he wasn't the first.

15 Q. No?

16 A. No.

17 Q. Are there others still alive, do you know, of that  
18 first group?

19 A. Up to what time point?

20 Q. Up to 1990, surviving more than a couple years after  
21 surgery.

22 A. Oh, yes.

23 Q. And I'm not trying to trick you, but it was a rather  
24 developmental program at the point Richard  
25 Shallenberger had gone through it; correct?

1 A. Correct.

2 Q. And in any developmental program, there may be  
3 circumstances in which you're using something and  
4 then find out that that use really wasn't suited for  
5 the purpose, not because you knew **it** at the time,  
6 but because you found out through experience that  
7 perhaps the two of them didn't work together.  
8 That's one reason developmental programs are there;  
9 correct?

10 A. Correct.

11 MR. PARKER: Let me enter an objection  
12 to anything that's subsequent to the date of  
13 this surgery.

14 Q. I'm just asking whether or not you found that any of  
15 these in combination or individually was a drug that  
16 you felt uncomfortable using for whatever reason.

17 MR. PARKER: I'm going to object.  
18 Uncomfortable using? If you can answer that  
19 question, go ahead, but that's pretty darn  
20 broad.

21 Q. Yeah, **it** is. You didn't cease using any of these  
22 medications?

23 A. That's correct.

24 Q. In Richard Shallenberger's case, the surgery itself  
25 went quite well; **is** that a fair statement?

11

1 A. It went -- yes.

2 Q. Yet his hospitalization was rather prolonged due to  
3 the complications that arose after the surgery?

4 A. Yes.

5 Q. How long would you have expected him to have been in  
6 the hospital, if he would not have had those  
7 complications?

8 A. At that time it would have been difficult to give  
9 you -- to answer that question.

10 Q. Because it was still a new program?

11 A. Yes.

12 Q. And everyone was learning, I guess. Is that a fair  
13 statement?

14 A. Yes.

15 Q. Have you ever talked to either of the Shallenbergers  
16 about his postoperative care?

17 MR. PARKER: Over the ten years or the  
18 immediate postoperative --

19 Q. Well, obviously after the operation.

20 A. The last time I saw Mr. -- yes.

21 Q. Do you remember when that was?

22 A. The last time I saw Mr. Shallenberger was in 1990.

23 Q. You actually saw him in 1990?

24 A. He came to my office.

25 Q. When was that?

12

1 THE WITNESS: Do you have that volume?

2 MR. PARKER: Is this it?

3 A. February 1st, 1990.

4 Q. What was the purpose of that visit?

5 A. He was there for follow-up. He was primarily  
6 interested in the new medication FK506.

7 Q. What do you know about FK506?

8 A. What did I know about **it** then or what do I know about  
9 **it** now?

10 Q. Then.

11 A. Very little.

12 Q. What did you advise him about that new medication or  
13 his concern? Do your notes reflect that?

14 A. No.

15 Q. Do your notes reflect if they had talked to you at  
16 any time after that?

17 A. If they had talked to me after this note?

18 Q. Correct, not personally, but by phone.

19 A. No.

20 Q. Do your notes reflect any conversations, letters, or  
21 communications regarding Richard Shallenberger after  
22 February 1st 1990?

23 A. There's no reflection of that in the notes.

24 Q. Do you remember any communications, letters, or  
25 conversations regarding Richard Shallenberger after

12

1           that?

2       A.     No.

3       Q.     Other than what you've had with your counsel  
4           obviously.

5       A.     No.

6       Q.     You knew that he finally went to the University of  
7           Pittsburgh?

8       A.     Yes.

9       Q.     Did you ever have any communications with the  
10          University of Pittsburgh?

11      A.     No.

12      Q.     Did they ever send you any information on it?

13      A.     Not that I recall.

14      Q.     Do you have a separate file on Richard Shallenberger?

15      A.     No.

16      Q.     What are you referring to in the file there that you  
17          just were able to see the time he saw you on February  
18          1st, 1990?

19      A.     That **was** my clinical note from his office visit.

20      Q.     And that's a clinical note kept in his general file?

21      A.     Correct.

22      Q.     Do you have a specific file on Richard Shallenberger  
23          himself?

24      A.     No.

25      Q.     So the only file you use regarding him is the

12 1 Cleveland Clinic's file on him?

2 A. Yes.

3 Q. Was he your first alcoholic transplant patient?

4 A. Yes.

5 Q. Did you advise Mr. Shallenberger of the fact that he  
6 was your first alcoholic liver transplant patient?

7 A. I don't recall that I specifically had that  
8 conversation with him, no.

9 Q. Do you remember if you had advised him that he was to  
10 be within the first -- and I don't know. You don't  
11 remember exactly if he was the seventh, eighth,  
12 ninth, tenth, or whatever?

13 A. I don't remember exactly which one he was, no.

14 Q. Did you discuss with him at all that he was early in  
15 your program regarding liver transplantation?

16 A. I don't recall any specific conversation of that, no.

17 Q. Did you ever discuss with him that there were  
18 alternatives to the Cleveland Clinic for liver  
19 transplantation surgery?

20 A. I don't recall if I had that conversation with him  
21 either.

22 Q. Were there other hospitals in 1985 that had more  
23 experience with liver transplantation than did the  
24 Cleveland Clinic?

25 A. Yes.



12

1 Q. Would you have considered Richard Shallenberger's  
2 case to be somewhat more difficult because of his  
3 experience as an alcoholic than a normal transplant  
4 would be?

5 A. No.

6 Q. Now, I think you gave an affidavit at some point  
7 earlier; correct? Do you remember that affidavit?

8 MR. PARKER: The question is whether you  
9 recall it.

10 A. Not specifically, no. Yes, I do remember that there  
11 was a prior -- but I don't recall the details.

12 Q. At that time in 1993, you said that you had an  
13 independent recollection of Richard Shallenberger  
14 which has been reinforced by a review of the medical  
15 record; correct?

16 A. Yes.

17 Q. At that time, you said that based upon your  
18 education, training, and experience, the medical and  
19 surgical care rendered to Richard Shallenberger at  
20 the Cleveland Clinic was in compliance with  
21 reasonable and acceptable standards of medical  
22 practice; correct?

23 A. Yes.

24 Q. Did that include his entire care or just his care  
25 that you were involved in regarding the surgery?

12

1 A. His entire care.

2 Q. So postoperative care, too, you had reviewed and  
3 determined that that was within the acceptable  
4 standards?

5 A. Yes.

6 Q. You also stated that with reasonable medical  
7 certainty any neurologic injury suffered by  
8 Mr. Shallenberger was not as a consequence of  
9 substandard medical care rendered at the Cleveland  
10 Clinic Foundation. How did you reach that  
11 conclusion?

12 A. Because I felt that his standard of medical care was  
13 very good.

14 Q. And that includes the post-operative care in the  
15 intensive care unit?

16 A. Yes.

17 Q. Now, were you aware that Mr. Shallenberger either had  
18 a nonfunctional or at least a dysfunctional diaphragm  
19 as a result of an earlier surgery?

20 A. I don't recall that specifically.

21 Q. You know what the diaphragm is obviously. It assists  
22 in our breathing?

13

23 A. Yes.

24 Q. If it were damaged, would that make it more difficult  
25 for a person to breathe?

13

1

MR. PARKER: Damaged and not healed or

2

repaired?

3

Q. Yes, damaged and not repaired.

4

A. Yes.

5

Q. I think during the surgery -- and if we look at your

6

surgical notes, if I have them -- Do you have your

7

surgery notes in front of you, if you would, sir?

8

A. All I have is the handwritten operative note.

9

Q. Is there a difference between the handwritten

10

operative note and the typewritten operative note?

11

A. Yes.

12

Q. What's the difference?

13

A. The handwritten operative note is simply a summary of

14

the procedure that was performed., the surgeon, the

15

assistants, drains, and so on, whereas the typed

16

operative note is a detailed description of the

17

operative procedure.

18

Q. Is that dictated while you're doing the surgery or

19

afterwards or --

20

A. It's dictated after the operation.

21

(Plaintiff's Deposition Exhibits 2

22

was marked for identification.)

23

Q. That's the operative note of the surgery of Richard

24

Shallenberger on 8-7-85 and it's marked as Exhibit

25

Number 2; right?

13

1 A. Correct.

2 Q. And that's a dictated operative note of your surgery.  
3 Now, if you would look in that, six or seven lines up  
4 from the bottom it says, "Upon taking down the right  
5 triangular ligament, the thoracic cavity was entered  
6 and the defect in the diaphragm was closed with  
7 figure-of-eight number 2-0 silk sutures."

8 A. Yes.

9 Q. What are you doing there?

10 A. Closing a hole in the diaphragm.

11 Q. How was that hole created, if you know?

12 A. It was created in the process of dissecting the liver  
13 off of the diaphragm, to which it is very adherent  
14 particularly in patients with cirrhosis. So there  
15 was a hole made in the diaphragm, and the hole was  
16 closed.

17 Q. Do you know how large that hole was?

18 A. It was closed with a single stitch, so it was small.

19 Q. Now, that's obviously a hole in the diaphragm.

20 A. That's correct.

21 Q. Would that injury to his diaphragm -- and I'm not  
22 suggesting that injury was -- obviously it was caused  
23 during surgery, but would that problem itself cause  
24 the diaphragm not to function as well as normal?

25 A. No.

13

1 Q. And why would that not be?

2 A. Because it would have no -- it would not damage the  
3 diaphragm's ability to move.

4 Q. Because it was so small or just generally?

5 A. Both.

6 Q. You say it was only one stitch?

7 A. Yes.

8 Q. It says number 2-0 silk sutures. Sutures implies  
9 more than one to me.

10 A. Yes. So more than one.

11 Q. So it probably wasn't one?

12 A. It probably was not.

13 Q. And you really don't have any recollection of the  
14 size; you just remember correcting it? Did you do  
15 the correction yourself?

16 A. Yes.

17 Q. Do you remember the size?

18 A. No.

19 Q. Now, after reviewing the records before, would you  
20 disagree that he went into respiratory failure as a  
21 result of pulmonary edema from volume overload? This  
22 is on August 11th and 12th.

23 A. Yes, I would probably restate that.

24 Q. Okay.

25 A. That he did go into pulmonary edema because he was

13

1 starting to remobilize fluid from his tissues that  
2 had been administered during the operation and  
3 immediately thereafter rather than implying that he  
4 had been given too much fluid.

5 Q. So you're saying the cause of the problem is --  
6 you're changing it in terms of what caused the  
7 overload?

8 A. Correct.

9 MR. PARKER: The pulmonary edema.

10 Q. Right. You're not disagreeing that he was in --  
11 you're saying that volume overload wasn't caused --  
12 that pulmonary edema was not caused by volume  
13 overload?

14 A. No, I'm not disagreeing that it was caused by volume  
15 overload. I'm disagreeing that the volume was  
16 administered inappropriately.

17 Q. You didn't create the volume through IV's or  
18 whatever?

19 A. Well, the volume was given through the IV's, but it  
20 was given during the time of the operation and  
21 immediately thereafter when he needed that volume. A  
22 percentage of that volume goes into the tissues  
23 rather than remaining within the blood vessels. And  
24 as the systems recover, then that volume is then  
25 pulled back into the blood vessels. Then you have a

13

1 situation where there is too much volume.

2 Q. Would this cause poor oxygenation?

3 A. Yes.

4 Q. Would poor oxygenation lead to hypoxia?

5 A. Yes.

14

6 Q. Would hypoxia result in neurological abnormalities?

7 MR. PARKER: Objection.

8 A. Not necessarily.

9 Q. Could it?

10 A. It could.

11 Q. Do you know if he had accumulated any fluid in the  
12 pleural. space?

13 A. Yes.

14 Q. How do you know that?

15 A. He had a chest tube placed for the fluid.

16 Q. Now, in terms of the respiration, I'm going to hand  
17 you what we'll mark as Plaintiff's Exhibit 3.

18 (Plaintiff's Deposition Exhibit 3  
19 was marked for identification.)

20 Q. You're familiar with this type of document?

21 A. Yes.

22 Q. Have you seen this respiratory flow sheet before? I  
23 think it's three days, part of August 9th through  
24 part of August 13th.

25 A. I don't have any specific recollection of it. I'm

14

1 certain at the time that I did look at it.

2 Q. Are you familiar with this type of document and what  
3 the information is that it shows?

4 A. Yes.

5 Q. Now, in dealing with this flow sheet, at any time  
6 that you were reviewing this during his care, during  
7 this time period while you were seeing him on a  
8 daily basis -- Is this one of the documents you  
9 reviewed?

10 A. Yes.

11 Q. What are you looking for in this document regarding  
12 his care and his ability to respirate properly?

13 A. Well, you look at how much oxygen they're on and what  
14 sort of support they're on, and you look at the blood  
15 gases.

16 Q. It's important, therefore, to identify any change in  
17 his respiratory status; isn't that true?

18 A. Yes.

19 Q. And as I understand it, the arterial blood gases are  
20 the blood gases that you're most concerned with.

21 A. Yes.

22 Q. Now, in terms of this arterial blood gas, if we look  
23 at it starting on the 11th, you can see that they  
24 seem to be dropping; is that correct, the PaO2?

25 A. They seem to fluctuate,



14

1 Q. Now, this is only one element of respiratory problems  
2 though -- or I shouldn't say problems, of the  
3 respiratory condition of the patient. Correct?

4 A. Yes.

5 Q. Other signs would be difficult breathing?

6 A. Yes.

7 Q. Rapid pulse?

8 A. Perhaps.

9 Q. Possible fainting?

10 A. Possible.

11 Q. And maybe even some mental disturbance, such as  
12 delirium or euphoria?

13 A. Possible.

14 Q. Also there may be bluish discoloration called  
15 cyanosis?

16 A. Possible.

17 Q. And those are all signs of hypoxia?

18 A. Can be.

19 Q. Now, when he was extubated, he was put on a CPAP  
20 mask?

21 A. CPAP.

22 Q. CPAP mask. And that's a pressurized oxygen mask?

23 A. Yes.

24 Q. Why would that be used?

25 A. That's used to assist with the breathing but without

14

1 mechanical ventilation.

2 Q. If he's still cyanotic with that CPAP mask, would  
3 that be a cause for concern for you?

4 A. Yes.

5 Q. Now, if we look further on the doctor's orders --  
6 And you're familiar with physician's orders; right?

7 A. Yes.

8 (Plaintiff's Deposition Exhibit 4  
9 was marked for identification.)

10 Q. Handing you Exhibit 4, these are again pages out of  
11 the voluminous record of Mr. Shallenberger. These  
12 are the physician's orders; correct?

13 A. Correct.

14 Q. Are any of these written by you?

15 A. No.

16 Q. Who is that first signature on 8-11 on the first  
17 page? It says ABG MVG at noon, eight p.m. and four  
18 a.m., and then there's a signature below. Do you  
19 know who that might be?

20 A. No.

21 Q. Now, going to the second page of that, at 4:30 it  
22 says ABG at four p.m. and then sent. Does that mean  
23 that the doctor requested an ABG, and then the sent  
24 is that the nurse or someone complied with that  
25 request?

14

1 A. I would think that's what **it** means.

2 Q. You don't know?

3 MR. PARKER: Well, he's interpreting  
4 someone else's note.

5 Q. I mean in your experience as a doctor.

6 A. I;? my experiecce, what that would mean is that the  
7 blood gas was requested and sent.

8 Q. Who would draw the blood to have the blood gas  
9 tested?

10 A. It could be a nurse, could be a doctor, could be a  
11 respiratory technician.

12 Q. Is that identified when **it's** drawn anywhere in the  
13 record?

14 A. Well, **it** may be on the -- **it** should be on the flow  
15 sheet. It should be identified on the flow sheet as  
16 to when **it** was drawn.

17 Q. Do you know, would blood be drawn if **it** hadn't been  
18 requested by the doctor?

19 A. I don't know.

20 Q. And you don't have any idea who any of these people  
21 are, I gather, the signatures?

22 A. I know who Dr. Jaroch is.

23 Q. And where does Dr. Jaroch appear on that document?

24 A. Well, he appears on the first page where **it** says  
25 incentive spirometry.

1 Q. Oh.. right there. I see it. Okay.

2 A. And it appears on the following page in the second  
3 set of orders.

4 Q. That's 8-11 again, arterial blood gas?

5 A. Yes.

6 Q. And when does he appear next?

7 A. He appears then on the 12th.

8 Q. Hold Aldomet?

9 A. Yes.

10 Q. What's Aldomet? Is that a medication?

11 A. It's a blood pressure medication.

12 Q. So he appears on 8-11 at approximately -- we don't  
13 know what time that is That's the ABG now CXR area.  
14 Wouldn't normally you put a time in there?

15 MR. PARKER: Where are you referring?

16 MR. SLAGLE: On the second page of the  
17 document.

18 A. Not necessarily.

19 Q. Not necessarily?

20 A. No.

21 Q. But then he doesn't appear again until 8-12?

22 A. That's correct.

23 Q. And your name doesn't appear anywhere during that  
24 period either?

25 A. That's right.

1 Q. But you're saying that doesn't mean you weren't  
2 there, it just means you didn't have any orders?

3 A. That's correct.

4 (Plaintiff's Deposition Exhibit. 5  
5 was marked for identification.)

6 Q. I'm going to hand you the actual blood gas -- as I  
7 understand it, these are the actual blood gas reports  
8 themselves, Plaintiff's Exhibit 5. Do you know how  
9 those are generated?

10 h. The sample is put into a machine. The results come  
11 out.

12 Q. The technician, is that the person who's actually  
13 doing the sample?

14 MR. PARKER: What do you mean, doing the  
15 sample?

16 Q. Testing the blood sample itself. Do you see at the  
17 top?

18 A. Yes.

19 Q. Do you know?

20 A. I don't know that. I would presume that's the case,  
21 but I don't know that.

22 Q. What's the F102 up there in the left corner? What  
23 does what mean, F102?

24 A. That's how much oxygen --

25 Q. Is being given to the patient?

15

1 A. Is being given to the patient.

2 Q. So that's going to change, depending upon whether  
3 he's intubated, on a CPAP mask, or something else?

4 A. Right.

5 Q. And then you checked various boxes. Do you know  
6 actually who prepares these, whether it be the  
7 technician or the person delivering the blood?

8 A. My understanding is that there is a technician that  
9 takes the blood sample and runs it through the  
10 machine, and then --

11 Q. This is generated?

12 A. That's correct.

13 Q. And obviously it's generated by somebody writing in  
14 the figures?

15 A. Right.

16 Q. Do you know if there's a policy and procedure  
17 guideline for blood gas draws?

18 A. I'm sure there is a policy. I don't know.

19 Q. And you can't really identify anyone from the  
20 initials on any of these documents?

21 A. No.

22 Q. You don't know who CF is or --

23 A. No.

24 Q. What's normal PaO2?

25 A. Which are you --

15

1 Q. In your general experience as a physician?

2 A. The pO2?

3 Q. Yes.

4 A. It's listed right there, 85 to 95.

5 Q. What results if it drops below that level?

6 A. Well, it varies. It depends.

7 Q. When it drops below that, is it a concern?

8 A. Again it depends on the situation.

9 Q. Well, what about the situation is it that it depends  
10 upon?

11 A. Well, for some patients dropping below that level may  
12 be normal for them.

13 Q. Well, let's talk about Richard Shallenberger.

14 A. But in general when it drops below the normal level,  
15 yes, you are concerned.

16 Q. In Richard Shallenberger's case, would you be  
17 concerned about it if it dropped below the normal  
18 level?

19 A. Yes.

20 Q. **At** what level are you concerned, as soon as it drops  
21 below the 85 to 95 range, or should you be concerned  
22 I should say?

23 A. The blood -- well, not necessarily. The blood gas is  
24 simply one piece of information you're looking at.

25 Q. What other information would you look at?

1 A. How well they're breathing and so on.

2 Q. What is the so on?

3 A. How well they're breathing, are they having  
4 difficulty breathing, the blood gases.

5 Q. How long would you as a physician be comfortable not  
6 reintubating a patient whose blood gases have dropped  
7 below the 85 to 95 range, the pO2 level?

8 MR. PARKER: Objection.

9 Q. In terms of time.

10 MR. PARKER: If you can answer that --

11 A. I can't answer that.

12 Q. There's no way you would estimate time?

13 A. I can't answer that based on that single value.

14 Q. So there are other values you would be looking at,  
15 which would include how well they're breathing,  
16 difficulty breathing, et cetera?

17 A. Yes.

18 Q. If he's having difficulty breathing and his blood  
19 gases have dropped below that level, how long would  
20 you permit that situation to exist before you took  
21 some sort of action either to reintubate or to take  
22 other procedures in terms of time?

23 MR. PARKER: Again objection. If you  
24 can answer that --

25 A. It's impossible to answer that out of context to the



16

1 situation.

2 Q. Would you agree that if the pO2 level falls, the  
3 percent of available hemoglobin that is saturated  
4 with oxygen decreases rapidly?

5 A. Well, the amount of oxygen available decreases.

6 Q. And that's a concern; right?

7 A. That's a concern, yes.

8 Q. Wouldn't a pO2 below 55 indicate a state of hypoxemia  
9 that requires immediate correction?

10 A. Yes.

11 Q. What is hypoxemia?

12 A. It simply means that there's not enough oxygen in the  
13 blood.

14 Q. And the arterial blood gases are very important in  
15 determining that?

16 A. Yes.

17 Q. They should be accurate?

18 A. They should be accurate, yes.

19 Q. A person's life may hang in the balance of whether or  
20 not those blood gases are accurate?

21 MR. PARKER: Objection.

22 A. Not necessarily.

23 Q. But it may?

24 A. Perhaps.

25 Q. Now, in dealing with the blood gases that were taken

1 from Richard Shallenberger, going back to Plaintiff's  
2 Exhibit 3, as I understand it at 2:30 he has a pO2 of  
3 65; correct?

4 A. At 2:30?

5 Q. Yes. No, at four p.m. I'm sorry, four p.m. on 8-11,  
6 the second page.

7 A. Yes.

8 Q. At 65, would that be of concern to you?

9 MR. PARKER: Objection.

10 A. Again, it would depend on the whole situation.

11 Q. Well, would it be a concern if he was also having  
12 difficulty breathing?

13 A. Perhaps, could be.

14 Q. And maybe suggestions he should be restrained because  
15 he's trying to pull his mask away?

16 A. Could be a concern, yes.

17 Q. Now, at eight p.m., I see a figure of 120. Correct?

18 A. Correct.

19 Q. Then at 11:30, there's a figure of 36?

20 A. Yes.

21 Q. Now, you as a physician, if you're looking at his  
22 blood gas pO2 levels in the days after extubation, in  
23 the hours after extubation, and his arterial blood  
24 gases for the 24 hours before that time had been  
25 consistently decreasing or at the very least

16           1           fluctuating from the 76 to the 60 range for 24 hours  
2           2           and all of a sudden he had a 120, would you wonder  
3           3           about that reading? Wouldn't you be concerned about  
4           4           the accuracy of that reading?

5                       MR. PARKER: Objection to the question  
6                       as phrased. If you can answer it. It calls for  
7                       speculation.

8   A.   Not necessarily, no.

9   Q.   Even though none of the other blood gas levels had  
10       risen above 75 in the previous 24 hours, that  
11       wouldn't have concerned you?

12   A.   Not necessarily, no.

13   Q.   Wouldn't it have concerned you if the records would  
14       indicate that he was still having difficulty  
15       breathing and was in respiratory difficulties to the  
16       point where the nurses are noting it in the medical  
17       records?

18   A.   I would be more concerned about respiratory  
19       difficulties than an isolated blood gas. I assume  
20       you're referring to the 120 still. Correct?

21   Q.   Correct. Well, if throughout the day on 8-11-85 the  
22       nurse's notes were reflecting diminished breath  
23       sounds, becoming increasingly agitated, palling at  
24       oxygen, lung sounds more wet than they were earlier  
25       in the day, agitated, uncooperative, thrashing,

16           1           pulling at the CPAP mask, redness and cyanosis,  
2           2           shallow respiration, appears apnic and air hungry,  
3           3           complains of inability to breathe, and in fact wrist  
4           4           and mitten restraints are put in to keep him from  
5           5           pulling off tubes, in combination with the low blood  
6           6           gas readings you're having, wouldn't that be causing  
7           7           you some concerns as a physician?

8                       MR. PARKER: Objection.

9   A.   Which specific blood gas readings are you talking  
10       about?

11   Q.   Well, even the 65 at four p.m. with those other  
12       factors.

13   A.   I would, you know, have to make my own assessment.  
14       Some of those parameters are not necessarily very  
15       helpful, such as whether he, quote, sounds wet.  
16       That's a pretty subjective thing to some degree.  
17       Redness and cyanosis are conflicting terms. So  
18       that's a bedside assessment I would have to make.

19   Q.   Aren't those all indications of some difficulty of a  
20       patient in breathing, respiration?

21   A.   Some of them are, yes.

22   Q.   And would those coupled with a reading at eight p.m.,  
23       after they've had to tie the man down to keep him  
24       from pulling his oxygen off and you get a reading of  
25       120, wouldn't that 120 at least send some alarm bells

1 off in your mind, saying that this is not in keeping  
2 with what's been occurring and it's not in keeping  
3 with the notes being recorded by the nursing staff?

4 MR. PARKER: Objection. What's the  
5 question?

6 Q. Wouldn't that send off alarm bells in your mind as a  
7 doctor?

8 A. As opposed to the fact that maybe the CPAP mask is  
9 actually delivering oxygen?

10 Q. I don't care what the reason is. That's true. Maybe  
11 the CPAP mask isn't delivering oxygen.

12 MR. PARKER: Is.

13 Q. Wouldn't you want to check that out? I'm just asking  
14 you when you've got those other indications in the  
15 same 24-hour period, and the normal range is 85 to  
16 95, and you've got consistently readings below 85 for  
17 that 24-hour period, which are in fact consistently  
18 dropping, and all of a sudden you get a reading of  
19 120, wouldn't that, if you looked at that, be an  
20 alarm in your mind as a physician to say well, this  
21 doesn't make sense?

22 MR. PARKER: Objection.

23 A. If the bedside assessment of the physician agreed  
24 that you thought they were having some respiratory  
25 trouble and the blood gas didn't seem to match, then

1 I think you would have some concern about that.

2 Q. And, in fact, if you look at the next blood gas level  
3 taken at 11:30, it says a 36 pO2?

4 A. Yes.

5 Q. Now, that's a very dangerous level, wouldn't you  
6 agree?

7 A. Yes.

8 Q. Wouldn't you also agree that it's more consistent and  
9 in keeping that the blood gas level at eight p.m. was  
10 not a 120 but was somewhere between 65 and 36?

11 MR. PARKER: Objection.

12 A. I don't know. I can't answer that.

13 Q. You can't answer that?

14 A. No.

15 Q. How long could a person at a 36 pO2 without being  
16 reintubated, how long would he have to be at that  
17 level to suffer any kind of brain injury?

18 A. I don't know.

19 Q. Do you know what compliance 20 without PEEP means?

20 MR. PARKER: Where are you getting that  
21 from?

22 Q. That's on the respiratory flow sheet, second page.  
23 Do you know what that means?

24 A. Well, without PEEP, you can only really receive PEEP  
25 when you have an endotracheal tube in, because it

17

1 means that there's constantly more pressure in the  
2 circuit. And the compliance, I'm not exactly certain  
3 what that is referring to.

4 Q. Do you know what compliance 44 HCT 40 is right below  
5 there?

6 A. Well, the HCT stands for hematocrit.

7 Q. Stands for what?

8 A. Hematocrit.

9 Q. And what does that mean?

10 A. That means that his hematocrit was 40, which is --

11 Q. I see. Okay. And what does that indicate?

12 A. That's a normal level of hematocrit.

13 Q. You don't know what compliance 44 is?

14 A. It is a measure of the compliance of the lungs or how  
15 easily you can move things in and out. And beyond  
16 that, I can't give you a good explanation.

17 Q. So that's to be asked of the intensive care person, I  
18 guess?

19 A. Yes.

20 Q. Let's add another factor about the x-rays.

21 (Plaintiff's Deposition Exhibit 6  
22 was marked for identification.)

23 Q. Handing you Exhibit 6, these are x-rays. And a  
24 portable chest -- he's in the intensive care unit I  
25 gather is why it's done. Correct?

17

1 A. Correct.

2 Q. Now, if we look at these x-rays, on 8-11-85 it  
3 says -- and that's the fourth page in -- there is  
4 subcutaneous emphysema in the right chest wall. What  
5 does that mean?

6 A. That means there's air in the tissue.

7 Q. **Is** that a cause for concern?

8 A. No.

9 Q. What about infiltrates are noted within all lobes of  
10 the lungs?

11 A. Your question?

12 Q. What is that?

13 A. Well, infiltrate could be fluid, could be infection.  
14 infiltrate is not necessarily a specific term.

15 Q. **Is** that cause for concern?

16 A. Yes.

17 Q. Especially if they were increased since the previous  
18 film?

19 A. **Yes.**

20 Q. That's another factor that a doctor would be looking  
21 at to determine what needs to be done?

22 A. Yes.

23 Q. Now, I think you had said that the diaphragm defect  
24 was caused because you had to remove adhesions from  
25 it?



17

1 A. Well, because the liver was very adherent to the  
2 diaphragm.

3 Q. So the reason -- I mean you have to remove those in  
4 order to get the liver out?

5 A. Right.

6 Q. And in doing so, it's not always possible not to  
7 damage the tissue which it's adhered to?

8 A. Correct.

9 MR. PARKER: Are we at a suitable  
10 breaking point?

11 MR. SLAGLE: Sure.

12 (A short break was taken.)

13 Q. Doctor, Mr. Shallenberger also had a paralyzed vocal  
14 cord, as I understand it. Do you remember that?

15 A. Not specifically.

16 Q. Caused by an earlier procedure. Would a paralyzed  
17 vocal cord in any way affect his ability to produce  
18 an effective cough?

19 A. It would make it more difficult.

20 Q. Would that also affect his ability to properly  
21 respire?

22 A. Not necessarily, no.

23 Q. But it may?

24 A. It could.

25 Q. Did you or Dr. Jaroch or anyone that you know of

18

18

1           brief the intensive care unit about these other  
2           problems, whether it be the paralyzed vocal cord or  
3           the diaphragmic rent?

4   A.    I don't recall specifically, no.

5   Q.    Do you know if that shows up anywhere in the records  
6           that you had?

7   A.    Not to my knowledge, no.

8   Q.    Shouldn't that really be something they be aware of,  
9           at any rate, so they at least have that information  
10          in the files, so they know to keep that in mind?

11                   MR. PARKER:  Objection.  Only if you  
12                   know whether that's relevant to the care.

13  A.    Could you state your question again, please?

14  Q.    Aren't those just bits of information which may be  
15          not of concern individually or by themselves, but in  
16          combination with other factors in his care?  Wouldn't  
17          they be the types of information that they should at  
18          least be aware of?

19                   MR. PARKER:  Objection.

20  A.    Well, the examination by the ENT doctor was a part of  
21          the record, and the rent in the diaphragm was of no  
22          concern.

23  Q.    Now, if the intensive care staff had indicated that  
24          Richard was experiencing some paradoxical  
25          respiration -- And what is paradoxical respiration?

18

1 A. I'm not sure exactly what they're describing.

2 Q. Isn't that really opposite of normal chest breathing,  
3 do you know?

4 MR. PARKER: Objection. I think he  
5 said --

6 Q. You don't know what paradoxical respiration is?

7 A. I don't know exactly what they're alluding to.

8 Q. What is paradoxical respiration in your  
9 understanding?

10 A. My understanding is it has to do with filling of the  
11 veins in the neck, when you take a deep breath and so  
12 on, but I don't know exactly what they're alluding to  
13 with this paradoxical respiration.

14 Q. Do you know if that would inhibit the ability of the  
15 movement of the gases during respiration?

16 A. I don't know.

17 Q. Paradoxical respiration, wouldn't that be consistent  
18 with an injury to the thoracic cavity?

19 MR. PARKER: If you know.

20 A. I don't know.

21 Q. Would his inability to produce an effective cough and  
22 the paradoxical respiration increase his chance for  
23 pleural effusion?

24 MR. PARKER: I'm going to object. He  
25 testified that he doesn't know what was meant by

18

1 the notation of paradoxical respiration. I  
2 don't know how he can answer follow-up questions  
3 on that. Doctor, if you can answer, feel free,  
4 but --

5 A. I don't know.

6 Q. What would you consider significant to stress which  
7 would warrant reintubation of a patient?

8 A. Someone who is having obvious respiratory problems.

9 Q. And you don't remember being contacted at all on  
10 August 11th, 1985, August 12th, 1985, regarding his  
11 respiratory problems; is that correct?

12 A. That's correct.

13 Q. Would you agree that in order to give informed and  
14 intelligent care to Mr. Shallenberger, both before  
15 and after surgery, a physician would have to have an  
16 adequate knowledge of the anatomy and physiology of  
17 the chest and thoracic cavity?

18 MR. PARKER: Objection. Did you get the  
19 question or do you need it read back?

20 A. I don't understand that question at all.

21 (The court reporter read the preceding  
22 question as follows: Would you agree that in  
23 order to give informed and intelligent care to  
24 Mr. Shallenberger, both before and after  
25 surgery, a physician would have to have an

adequate knowledge of the anatomy and physiology of the chest and thoracic cavity?)

MR. PARKER: Is that question answerable, given all of its subjective wordings, informed, intelligent, adequate knowledge? Can you answer it? I think it's meaningless. I think it's a platitude question.

A. I don't know how to respond to that.

Q. During the postoperative period, alteration in respiratory status is always a major potential problem for patients having thoracic surgery; isn't that correct?

A. Having thoracic surgery?

Q. Right.

A. Could you restate that?

Q. During the postoperative period, alteration in respiratory status is a major potential problem for patients having thoracic surgery?

A. Yes.

Q. And Mr. Shallenberger did have some thoracic surgery from you?

A. No.

Q. I thought the diaphragm was in the thoracic area.

A. The diaphragm separates the chest from the abdomen, which means you can get to it from either side.

- 18       1   Q.    So you're saying you didn't enter the thoracic cavity  
2            when you corrected the diaphragm?
- 3       A.   That's correct.
- 4       Q.    If Dr. Jaroch on August 12th -- And he was your  
5            senior fellow, right?
- 6       A.    Correct.
- 7       Q.    -- noted that reintubation was required due to  
8            hypoxemia as a result of mobilization of the third  
9            spaced fluid, can you tell me what third spaced fluid  
10          is?
- 11      A.    I explained that before. It's fluid in the tissues.
- 12      Q.    That's what you were explaining?
- 13      A.    That's correct.
- 14      Q.    And how does that affect the respiration process?
- 19      A.    As the fluid gets back into the vascular space, it's  
15            circulated through the vessels in the lungs, and  
16            that's where you can have the pulmonary edema.
- 17            that's where you can have the pulmonary edema.
- 18      Q.    Would you have classified what occurred to Richard  
19            Shallenberger on August 11th and 12th, when they  
20            reintubated him, as a patient crisis?
- 21      A.    I guess that depends on how you define a patient  
22            crisis.
- 23      Q.    Well, as you define it.
- 24                   MR. PARKER: Well, do you have a  
25                   definition for patient crisis or is that a

1 lawyer's term?

2 A. I don't know that I would necessarily define  
3 reintubation as a crisis.

4 Q. And you said you saw Richard Shallenberger every  
5 day --

6 A. Yes.

7 Q. -- even though it's not noted? I don't think the  
8 medical record indicates any entries by a transplant  
9 team doctor on August 11th or 12th. Do you know who  
10 would have been on duty on those days other than  
11 yourself?

12 A. Dr. Jaroch, as I mentioned earlier.

13 Q. Anyone else?

14 A. There are notations by Dr. Carey and by  
15 Dr. Winkelman, and they are the medical doctors  
16 involved in the liver transplant program.

17 Q. So Carey and Winkelman are also transplant doctors  
18 then, not surgeons, but involved in the program?

19 A. That's correct.

20 MR. PARKER: And so the record is clear,  
21 you're referring to the clinical notes, clinical  
22 sheets in answering that question?

23 THE WITNESS: Correct.

24 Q. I think Richard had a slight rejection on August  
25 14th.

1 A. He had a biopsy performed on the 14th that was  
2 consistent with cellular rejection.

3 Q. Is that a normal occurrence?

4 A. It's an anticipated event.

5 Q. Was that rejection resolved without incident?

6 A. It was treated with steroids.

7 Q. Any further complications from that?

8 A. Not from that episode.

9 Q. Metabolic alkalosis is noted in the record on August  
10 12th and 13th with resolution by August 14th. What  
11 is metabolic alkalosis?

12 A. It simply means that the pH of the blood is more  
13 alkaline than perhaps the normal range.

14 Q. Do you think that was resolved in an appropriate  
15 manner?

16 A. Yes.

17 Q. Were you involved in that yourself?

18 A. Not specifically.

19 Q. You were, however, involved specifically with the  
20 slight rejection?

21 A. Yes.

22 Q. Do you feel Cyclosporine causes seizures?

23 A. It has been suggested that Cyclosporine may be  
24 implicated, may have some role in seizures.

25 Q. Seizure activity also would be considered a symptom



19

1 of brain injury though, would **it** not?

2 A. Not necessarily.

3 Q. May **it**?

4 A. **It's** possible.

5 Q. You have indicated yourself that the coma that  
6 Mr. Shallenberger suffered could be caused by  
7 infection or sepsis; correct?

8 A. It may be contributing to a coma.

9 Q. Do you know **if** any tests supported any of those  
10 conclusions or possibilities?

11 A. What's that question again, please?

12 Q. Do you know **if** there were any tests that supported  
13 that?

14 A. Supported --

15 Q. That his coma was caused by infection or sepsis.

16 A. No.

17 Q. There weren't any or you don't know of any, you don't  
18 remember any?

19 A. There were no tests that showed that either of those  
20 things caused or didn't cause his coma.

21 Q. Did you prepare a discharge summary for Richard  
22 Shallenberger?

23 A. I personally did not prepare a discharge summary.

24 Q. Is **it** common procedure not to complete a discharge  
25 summary?

19

1 A. Yes.

2 Q. That happens on a regular basis?

3 A. Yes. One was prepared, but I did not --

4 Q. Who prepared that?

5 A. I would need a copy of it to see.

6 Q. I don't have a copy, so I don't know.

7 MR. PARKER: I think it was in here, as  
8 I recall. I don't know whether it's in any of  
9 these volumes or not.

10 Q. You've seen one, I gather?

11 A. Somewhere along the line, but I don't recall it  
12 specifically.

13 MR. SLAGLE: Mr. Parker, can you find  
14 any -- you don't have to do it right this  
15 minute, but --

16 MR. PARKER: I don't know whether I can  
17 or not. I don't know whether there's one or  
18 not.

19 Q. Do you remember where you saw that?

20 A. No.

21 Q. What do you believe caused his seizures?

22 A. I think his seizures were multi-factorial, a  
23 combination of several factors.

24 Q. What are they?

25 A. Probably in part his pre-existing preoperative

19           1           neurologic findings, in that he had had a prior  
2           2           seizure, he had a CT scan preoperatively that showed  
3           3           that he did have some atrophy of parts of his brain.  
4           4           Postoperatively, it's probably a combination of the  
20           5           transplanted liver not working perfectly, the  
6           6           kidneys, infection, a combination of all those  
7           7           things. Cyclosporine may have been a part of that as  
8           8           well.

9   Q.    Would hypoxemia cause an injury to the brain? Could  
10       it?

11  A.    It could.

12                   MR. PARKER:  Objection.

13  Q.    Could that injury to the brain also cause seizures?

14                   MR. PARKER:  Objection, possibilities.

15  A.    Possibly.

16  Q.    Do you know if Mr. Shallenberger had a  
17       cerebrovascular accident?

18  A.    Not that I'm aware of.

19  Q.    The first CAT scan of the head after the seizure was  
20       interpreted by Dr. Goren as showing an infarct. Can  
21       you tell me when an infarct is?

22  A.    It's an area of cell death.

23  Q.    Would you disagree with that, with his interpretation  
24       of that CAT scan?

25  A.    I would not make an official interpretation of the

20

1 CAT scan.

2 Q. Because you don't feel qualified?

3 A. I don't feel qualified. I know that the official  
4 report from the radiologist, from someone who is  
5 qualified, disagreed with Dr. Goren and said that  
6 there was not an infarct there.

7 Q. Who was that?

8 A. Whomever the official report was from.

9 Q. Could the type of seizures Mr. Shallenberger had be  
10 due to infarcts in the brain?

11 MR. PARKER: Objection,.

12 A. Are you asking me could they?

13 Q. Yes.

14 A. They could.

15 Q. Could they have been due to Cyclosporine?

16 MR. PARKER: Objection.

17 A. They could.

18 Q. What was the reason Mr. Shallenberger did not awake  
19 for a number of weeks after the initiation of the  
20 seizures?

21 A. I don't know.

22 Q. Do you know if it was related to the seizures at  
23 all?

24 A. I don't know.

25 Q. Do you know if it was related to Dilantin, for

20

1 instance?

2 A. I don't know.

3 Q. You have no idea what was causing the inability to  
4 wake up?5 A. I think his reasons for not waking up are  
6 multi-factorial, like they were with the seizures.7 Q. I think Dr. Hansen diagnosed anterior horn cell  
8 disease. Do you remember that?

9 A. No.

10 Q. What is anterior horn cell disease?

11 A. I don't know.

12 Q. Does Mr. Shallenberger have peripheral neuropathy?

13 A. Does he row?

14 Q. Did he when you last saw him?

15 A. I don't recall specifically.

16 Q. Do you know **if** he had **it** when he was admitted to the  
17 hospital?

18 A. Prior to his transplant?

19 Q. Right.

20 A. I don't recall.

21 Q. Do you know what the percentage of patients who  
22 undergo liver transplants who develop seizures are?

23 A. About ten percent.

24 Q. Do you know how many of these are single seizure  
25 episodes?

20 1 A. Probably about ninety percent.

2 Q. Are they usually easily controlled by  
3 anti-convulsants?

4 A. Yes.

5 Q. Now, were his seizures controlled by  
6 anti-convulsants?

7 A. Yes.

8 Q. Now, of the first group of liver transplant patients  
9 at the Clinic between the commencement of it and  
10 August of 1985, as I understand it, 42 percent or  
11 eight of nineteen suffered seizures. Isn't that  
12 correct?

13 A. Yes.

14 Q. Do you know when Mr. Shallenberger began to suffer  
15 seizures himself?

16 A. I believe it was on the 18th of August, so  
17 approximately ten days postoperatively.

18 Q. And these were generalized seizures?

19 A. Well, they started as focal seizures and then  
20 developed into generalized seizures.

21 Q. And these continued despite treatment with Diazepam  
22 and Phenytoin?

23 A. Eventually they were controlled by those medications.

24 Q. Eventually, right.

25 A. Yes.

20

1 Q. Okay. When you say eventually, how long did it take  
2 to get them under control?

3 A. It took a few days.

4 Q. Now as I understand, an EEG that was performed after  
5 surgery showed diffuse encephalopathy. What is that?

6 A. Just that. It doesn't tell you anything specifically  
7 at all.

8 Q. What is it showing? When the EEG shows that, what  
9 does --

10 A. It shows you that the EEG waves are abnormal, but it  
11 can't tell you why.

12 Q. Now, his EEG was normal prior to surgery?

13 A. I don't recall exactly what his EEG was before or  
14 that he even had one.

15 Q. I think his CT scan demonstrated only mild cortical  
16 atrophy?

17 A. Yes.

18 Q. But his pre-op CT scan was normal?

19 A. No.

20 Q. It was not normal?

21 A. It was not normal.

22 Q. What was wrong with it?

23 A. It showed cortical atrophy.

24 MR. PARKER: Off the record.

25 (Discussion was had off the record.)

20

1 Q. Did he have any seizures after the 18th postop day?

2 A. I don't recall specifically. He started having  
3 seizures on the 18th, which was the tenth  
4 postoperative day.

5 Q. So you don't know how long they lasted?

6 A. They lasted for a few days. I don't remember if it  
7 was exacty two or three,

8 Q. After he became comatose, did he have further  
9 seizures?

10 A. I don't recall exactly.

11 Q. Now, as I understand it, the only neurological  
12 symptoms that he had prior to surgery were thought to  
13 be related to alcohol withdrawal.

14 A. The etiology of his prior seizure was not determined.

15 Q. What factors do you associate with seizures and  
16 neurological complications?

17 A. Do you mean in liver transplant patients?

18 Q. Right.

19 A. Would you restate your question again, please?

20 Q. What factors would you potentially associate with  
21 seizures and neurologic complications in liver  
22 transplant patients?

23 MR. PARKER: I'm going to object.

24 A. I'd like you to be a little more specific perhaps.

25 Q. Well, for instance, would fluid overload be one of

1



1           1           those factors?

2    A.    Could be.

3    Q.    How about high doseage steroids?

4    A.    Yes.

5    Q.    Graft dysfunction?

6    A.    Yes.

7    Q.    Osmolality?

8    A.    Yes.

9    Q.    Do you know how many of these factors applied to  
10           Richard Shallenberger?

11   A.    Several.

12   Q.    Your seizure rate for those first twenty-one patients  
13           was much higher than what other transplant facilities  
14           had encountered themselves, wasn't it?

15                   MR. PARKER:  Objection.

16   A.    I don't know.

17   Q.    Haven't other studies shown that only ten percent  
18           average of liver transplant patients develop  
19           seizures?

20   A.    If you're looking at our first twenty-one patients.  
21           If you look at our series now, it's in line with  
22           everyone else's.

23   Q.    The ten percent?

24   A.    Yes, or less.

25   Q.    The forty-two percent is pretty high though?

i

1 A. Oh, yes.

2 Q. And do you have an explanation as to why the  
3 forty-two percent was so high?

4 A. No.

5 Q. In terms of seizure activity?

6 MR. PARKER: Objection.

7 A. No.

8 Q. You'd agree that Richard Shallenberger has a  
9 neurologic disability?

10 A. Yes.

11 Q. And that it precludes him from returning to the work  
12 force?

13 MR. PARKER: Is that something  
14 you've evaluated him for and have an opinion  
15 on, Doctor?

16 A. I can't answer that.

17 Q. You certainly agree that his quality of life is  
18 lessened?

19 A. I don't know that I can answer that either. I would  
20 agree that he has a neurological deficit.

21 Q. Now, Cyclosporine was continued with Richard  
22 Shallenberger even after he came out of the hospital  
23 and through his later years of recovery; correct?

24 A. Yes.

25 Q. Is there an explanation as to why, if Cyclosporine,

1 as you had said earlier, was thought to be a  
2 contributing factor to seizures, why that wouldn't  
3 continue to contribute while it's still being used?  
4 I mean why would it be a contributing factor three  
5 weeks post-op but not a contributing factor three  
6 years post-op?

7 A. I don't know.

8 Q. Is it safe to conclude --

9 A. No, there's no data to conclude that that is the  
10 case.

11 Q. So the jury is still out on that or there just isn't  
12 enough information?.

13 A. First of all, there's no information that clearly  
14 shows that Cyclosporine is responsible, and there's  
15 further no evidence to show that it may cause a  
16 progressive continuing problem.

17 Q. What were the doses of Cyclosporine given to Richard  
18 Shallenberger?

19 A. I would have to look at the medication sheet.

20 Q. If you could.

21 MR. PARKER: Let's see if we can  
22 find it. Let's go off the record.

23 (Discussion was had off the record.)

24 Q. Doctor, you're reviewing the medication records;  
25 correct?

1 A. Correct.

2 MR. PARKER: He's reviewing an  
3 excerpted copy of them at this point.

4 A. And your question relates to the dose of  
5 Cyclosporine?

6 Q. Right.

7 A. He was given a dose of 180 milligrams of Cyclosporine  
8 intravenously preoperatively, which at the time was  
9 standard practice, and then 90 milligrams of  
10 Cyclosporine intravenously was given twice a day  
11 starting on the 10th of August.

12 Q. How long did that continue?

13 A. The Cyclosporine?

14 Q. The 90 milligrams two times a day.

15 A. That may change depending upon the level in the  
16 blood, the renal function.

17 Q. Was the dosage in Richard Shallenberger's case ever  
18 altered?

19 A. Yes, **it** was altered.

20 Q. But you don't know when?

21 A. Well, here's one notation from the 14th of August  
22 where **it** was increased.

23 Q. And that was the time when he had the minor  
24 rejection?

25 A. Yes.

1 Q. How long was that dosage increased for? Off the  
2 record.

3 (Discussion was had **off** the record.)

4 A. I can't find any further adjustments in these  
5 records, so I don't know how long he was continued on  
6 that dosage.

7 Q. You were the doctor who made the final determination  
8 about the dosage?

9 A. Yes.

10 Q. Cyclosporine is a known neurotoxin, as I understand.  
11 Is that correct?

12 A. No, I wouldn't agree with that.

13 Q. Did you consult with anyone regarding Cyclosporine  
14 dosage and the amounts to be given?

15 A. Do you mean someone outside of the institution?

16 Q. No, within the institution.

17 A. We usually discuss that as a group.

18 Q. Do you know who? I mean do you have any specific  
19 recollection?

20 A. No specific recollection.

21 Q. I understand that there are other transplant teams  
22 that had been in existence for a longer period of  
23 time than the liver transplant team. Correct?

24 A. Correct, but they had no more experience with  
25 Cyclosporine than we did.

2           1   Q.    Oh, they didn't?   Because Cyclosporine was a  
             2           recently --

3           A.    That's correct.

4           Q.    Did anyone ever suggest to you that the dosage of  
5           Cyclosporine should be reduced during Richard  
6           Shallenberger's care postoperatively?

7           A.    By anyone --

8           Q.    Any other doctors.

9           A.    I don't recall.

10          Q.    At the time then, it would be safe to say you were  
11          not real familiar with using Cyclosporine either.

12                   MR. PARKER:  Objection.  On what  
13                   criteria?  I mean he's a whole lot more  
14                   familiar than a whole lot of other doctors.

15          Q.    You were no more familiar with it than anyone else in  
16          the Clinic is what you're saying?

17                   MR. PARKER:  Objection.

18          A.    No, that's not true.  I had as much familiarity with  
19          it as anybody in the Clinic and probably the most.

20          Q.    Was it reduced ever while he was in a coma?

21          A.    I don't recall specifically.

22          Q.    There's a Dr. Novak who was head of the kidney  
23          transplant team, as I understand it?

24          A.    Yes.

25          Q.    His experience with Cyclosporine would not have been

2

1 any more --

2 A. It became available to all of us at the same time.

3 Q. If you have a neuro complication now, do you alter  
4 your dose of Cyclosporine?

5 A. It depends on what the neurologic complication is.  
6 If you think it's related to the Cyclosporine or  
7 possibly related to the Cyclosporine, then yes.

8 Q. In this case then, you obviously didn't feel that  
9 Mr. Shallenberger's neurological problems were  
10 related to Cyclosporine, because you didn't reduce  
11 the dose?

12 MR. PARKER: Objection. He hasn't  
13 testified he didn't reduce it. He testified  
24 that he doesn't have a recollection of reducing  
15 it.

16 A. Will you restate your question, please?

17 Q. Did you reduce Richard Shallenberger's dose of  
18 Cyclosporine during his care after you increased it  
19 on August 14th?

20 A. E would have to look at the medication records to --

21 Q. Well, I think we're going to have to establish that,  
22 so if you could look.

23 A. I'm sure it was reduced, but I can't tell you exactly  
24 when.

25 Q. And did you reduce it because you felt it was related

2

1 to his neurological complications, or you just  
2 reduced it because you felt the level of Cyclosporine  
3 that you could give him could be reduced?

4 A. Well, that's kind of impossible to answer at this  
5 later stage.

6 Q. Did you feel that the neurological complications were  
7 in any way related to the Cyclosporine dosage?

8 A. No.

9 Q. Do you think the Cyclosporine was an agent  
10 responsible for his neurological problems regardless  
11 of the dosage?

12 A. The Cyclosporine could have been partly responsible  
13 for his neurologic problems regardless of the  
14 dosage.

15 Q. Isn't it true that Cyclosporine-created problems  
16 normally leave a definite identifiable white pattern  
17 that would show in an MRI of the brain?

18 A. Not necessarily. That has not been our experience.

19 Q. Have others identified that as being true?

20 A. There have been papers in the literature that showed  
21 changes on MR and CT scans. All of our patients who  
22 have had seizures and neurologic problems, including  
23 Mr. Shallenberger, have had those studies without  
24 those findings.

25 Q. So he doesn't have the identifiable white pattern



2

1           that others have discussed?

2   A.   That's correct.

3   Q.   Hypomagnesemia has been implicated as a cause of  
4       seizures in patients receiving Cyclosporine; isn't  
5       that true?

6   A.   Yes.

7   Q.   Mr. Shallenberger was not hypomagnesemic, was he?

8   A.   Not that I recall specifically. I don't know.

9   Q.   Was Mr. Shallenberger the only one that suffered  
10      neurological problems that lasted, that were  
11      permanent?

12   A.   No.

13                   MR. PARKER:  Objection.

14   Q.   There were others of that first group that had  
15      neurological problems that continued?

16                   MR. PARKER:  I'm going to object to  
17                   the question regarding any other patient  
18                   experiences.  Subject to that objection, you  
19                   can answer.

20   A.   There have been other patients who have had  
21      neurologic problems with some residual.

22   Q.   Could the morphine given to Richard Shallenberger  
23      after the anoxic episode result in seizures as a  
24      result of withdrawal?

25                   MR. PARKER:  Objection.

2           1   A.    Restate that, please.

2           2   Q.    Could the morphine given to Richard Shallenberger  
3           3        after the anoxic episode result in seizures as a  
4           4        result of withdrawal?

5           5   A.    First of all, Mr. Shallenberger did not have an  
6           6        anoxic episode.

3           7   Q.    What is an anoxic episode?

8           8   A.    That means you're not breathing at all.

9           9   Q.    How about a hypoxic episode?

10          10   A.    A hypoxic episode is different.

11          11   Q.    Well, could the morphine given to Richard  
12          12        Shallenbergr after a hypoxic episode result in  
13          13        seizures?

14                   MR. PARKER:  Objection.

15          15   a.    The morphine specifically?

16          16   Q.    Yes.

17          17   A.    I don't think so.

18          18   Q.    Could hypoxia be a precipitating neurological factor  
19          19        in his case?

20          20   A.    Possible.

21                   MR. PARKER:  Objection as to the  
22                   possibility.

23          23   Q.    If a neurological deficit did occur, would that not  
24          24        have been further Compromised by other contributing  
25          25        factors?

MR. PARKER: Objection.

A. I don't know.

Q. I think you agreed that he had circulatory overload, Mr. Shallenberger did?

A. I agreed that he had pulmonary edema.

Q. That's different than circulatory overload?

A. It's a matter of semantics; similar.

Q. And that would be identified by decreased urinary output --

A. No.

Q. -- as one factor?

A. No.

Q. No? How would that be identified?

A. The circulatory overload, the pulmonary edema?

Q. Right.

A. By the findings on his chest x-ray. The hypoxemia could reflect that. The most important piece of information was that that came from his Swan-Ganz catheter reading, that showed that his filling pressures were very high in his heart.

Q. What is a Swan-Ganz catheter?

A. It's a catheter that's placed into the pulmonary vasculature, and it reflects the pressures that are essentially in the heart and the lungs.

Q. So that's an important factor then?

3

1 A. It can be a very important tool for monitoring for  
2 therapeutic decisions.

3 Q. The chest films, **if** they showed bilateral pleural  
4 effusions, would also be an indicator of circulatory  
5 overload; right?

6 A. No.

7 Q. They would not?

8 A. No.

9 Q. So you disagree with that?

10 A. I disagree with that.

11 Q. How about clinically visible peripheral edema?

12 A. That again doesn't necessarily mean you have  
13 circulatory overload.

14 Q. However, wouldn't the fact that the nurse's notes  
15 indicate agitation, restlessness, and signs of  
16 respiratory insufficiency, would not that also be  
17 factors confirming the circulatory overload?

18 A. No. Circulatory overload may have absolutely no  
19 bearing on someone's respiratory status.

20 Q. Once he was reintubated, he had immediate improvement  
21 in the blood gases; correct?

22 A. Yes.

23 Q. Do you have an opinion whether Richard Shallenberger  
24 should have been extubated?

25 a. No.

3           1    Q.    Do you have an opinion whether, once extubated, he  
          2           should have been permitted to fall to the level of  
          3           respiratory distress that he did before reintubation?

          4                   MR. PARKER:  Objection to form.

          5    A.    No.

          6    Q.    Have you received any written correspondence at all  
          7           regarding Richard Shallenberger after February 1st,  
          8           1990?

          9    A.    Not that I recall.

         10   Q.    Did you ever at any time talk to your mentors at the  
         11           University of Pittsburgh regarding Richard  
         12           Shallenberger's care while he was here or even  
         13           preoperatively before undergoing the surgery?

         14   A.    No, not that I recall.

         15   Q.    Do you remember ever talking to them following it at  
         16           any time?

         17   A.    I don't remember.

         18   Q.    Who on the liver transplant team other than yourself  
         19           would have had direct day-to-day contact and  
         20           decision-making over Richard Shallenberger  
         21           postoperatively?

         22   A.    Well, myself, my resident.

         23   Q.    Dr. Jaroch?

         24   A.    Dr. Jaroch, although his would be under my direction,  
         25           and Dr. Carey or Dr. Winkelman.

3 1 Q. What is Dr. Jaroch's first name?

2 A. Mark.

3 Q. And Dr. Carey's?

4 A. Bill.

5 Q. Is he still at the Clinic?

6 A. Yes.

7 Q. What about Dr. Winkelman?

8 A. He's retired, but he's still here.

9 Q. What is his first name?

10 A. Gene.

11 Q. One moment. I think I'm almost done. I've asked if  
12 you've discussed this case with any doctors. Have  
13 you discussed it with any of the nursing personnel or  
14 anyone else like that?

15 A. No.

16 MR. SLAGLE: Okay. I have no further  
17 questions.

18 MR. PARKER: We'll read and sign.

19 - - - - -

20 (The deposition was concluded at 12:02 p.m.)

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S I G N A T U R E

I, DAVID P. VOGT, M.D., do hereby certify that I have read my deposition taken on April 5, 1995, in the case of Richard D. Shallenberger, et al., versus Cleveland Clinic Foundation, consisting of one hundred twelve pages, and that said deposition is a true and correct transcription of my testimony.

\_\_\_\_\_  
David P. Vogt, M.D.

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_.

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

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_

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## LAWYER'S NOTES

[illegible]