

The State of Ohio,       )  
County of Lorain.       )           SS:

IN THE COURT OF COMMON PLEAS

HUBERT PORTER, Administrator of )  
the Estate of BRAD PORTER,       )  
Deceased,                         )  
                                      )  
          Plaintiff,                )  
                                      )  
          vs.                        ) Case No. 96 CT 115689  
                                      )  
MANHAL A. GHANMA, M.D. et al,    )  
                                      )  
          Defendants.                )

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THE DEPOSITION OF HARRY J. BONNELL, M.D.  
TAKEN TUESDAY, DECEMBER 2, 1997

- - - - -

The deposition of HARRY J. BONNELL, M.D.,  
via videoconferencing, called by the Plaintiff for  
examination, pursuant to the Ohio Rules of Civil  
Procedure, taken before me, the undersigned, Judith Ann  
Volak, a Registered Professional Reporter and Notary  
Public in and for the State of Ohio, taken at Kinko's  
Copy Center, 6901 Rockside Road, Independence, Ohio,  
commencing at 1:35 p.m., the day and date above set  
forth.

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APPEARANCES:

On behalf of the Plaintiff:

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On behalf of the Defendant Dr. Ghanma:

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On behalf of the Defendant Dr. Quansah:

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On behalf of Defendant St. Joseph Regional  
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1 HARRY J. BONNELL, M.D.

2 of lawful age, called by the Plaintiff for examination,  
3 pursuant to the Ohio Rules of Civil Procedure, having  
4 been first duly sworn, as hereinafter certified, was  
5 examined and testified as follows:

6 EXAMINATION OF HARRY J. BONNELL, M.D.

7 BY MR. LANSDOWNE:

8 Q Doctor, as I mentioned when we just met, my  
9 name's Dennis Lansdowne. I represent the family  
10 of Brad Porter in this case, and I'm here this  
11 afternoon to find out what your opinions are  
12 going to be in this case.

13 I'm going to be asking you some questions.  
14 If at any time you don't hear my question,  
15 please tell me so that I can restate it and so  
16 that your answers match up with my questions on  
17 the transcript, okay?

18 A I understand that. And even though we're doing  
19 video, I'll try to answer with words not  
20 gestures or shakes of the head. And I know that  
21 this testimony is the same as being in a  
22 courtroom, and one of the questions we're asked  
23 in California is no, I'm not under any drugs  
24 that would alter my memory or my ability to  
25 provide accurate testimony.

1 Q Thank you, Doctor.

2 I take it you've had a few depositions  
3 taken in your time?

4 A Probably somewhere between one and 200, I guess.

5 Q All right.

6 Can you give me your current professional  
7 title?

8 A Yes. I am Chief Deputy Medical Examiner for San  
9 Diego County.

10 Q And how long has that been your position?

11 A February of 1991.

12 Q Just preliminary information here. Can you tell  
13 us what your hourly charge is for medical/legal  
14 work?

15 A For things that I can deal with at my own  
16 leisure that don't interfere with my regular  
17 work hours, I charge \$150 an hour. For those  
18 where I have to take time off of my work, it's  
19 \$200 an hour, which is maximized to \$2000 a day.

20 Q Court time then would be \$2000 a day?

21 A Or two hundred. But if it's -- two thousand.  
22 Yes.

23 Q What percent of your time is spent on  
24 medical/legal work?

25 A All of my time is spent doing medical/legal work

1           because I'm a forensic pathologist. Outside  
2           work in addition to my regular job, I would say  
3           5 to 10 percent.

4       Q       And what percent of your income's derived from  
5           "outside work," as you describe it?

6       A       Approximately the same, 5 to 10 percent.

7       Q       Are you still licensed in Ohio, Doctor?

8       A       Yes.

9       Q       When did you leave practice in Ohio?

10      A       February of '91 when I took my current job.

11      Q       What was the reason for your leaving Ohio?

12      A       Basically, as chief deputy coroner for Hamilton  
13           County, I wasn't going to advance. There was no  
14           room for advancement. I was competing for --  
15           was one of the five finalists to be the chief  
16           medical examiner for Los Angeles County when the  
17           chief medical examiner in San Diego found out  
18           that I was interviewing up there, so he gave me  
19           a phone call and basically said: How would you  
20           like to be No. 2 in San Diego instead of No. 1  
21           in Los Angeles? And that took about five  
22           seconds and here I am.

23      Q       In your CV you say that you've done 4400  
24           medical/legal autopsies. When you say  
25           "medical/legal autopsy," what do you mean?

1 A Those are autopsies done under the jurisdiction  
2 of a coroner, medical examiner.

3 Q Those that you would do in your regular job.

4 A Those I would do on my regular job. A very few  
5 times I have been asked to do an autopsy purely  
6 as an expert outside of my normal job. But  
7 those I can probably count on one hand.

8 Q And you noted that you had been deposed 200  
9 times. Let me ask you, how many times have you  
10 appeared as an expert witness as you are in this  
11 case?

12 A Okay. My total numbers of testimonies are well  
13 over 200. My actual depositions, I would say,  
14 are probably somewhere between a hundred to 200  
15 or less.

16 As an expert witness, I would say I have  
17 been deposed probably 60 to 70 times as an  
18 outside expert witness. And of those, I think  
19 it's somewhere in the range of 60/40 for  
20 defense, 60 percent for defense, 40 percent for  
21 plaintiff, last time I looked, which was about  
22 six or eight months ago.

23 Q When you looked, what did you look at? Do you  
24 have a running tabulation of your cases?

25 A What I did is, is I just kept numbers and the

1 date **of** the last time I checked. It's not  
2 terribly accurate because the time I had to do  
3 it, I had to go back four years. There was a  
4 Federal Court case that I testified in. As one  
5 of the requirements in Federal Court, they  
6 obtain a list of all cases. **So** I went back four  
7 years from then. Before that is memory, and  
8 since then it's just kind of adding up numbers.

9 Q Where was the Federal Court case?

10 A The one that required this was in Hilo, Hawaii.  
11 It was an aircraft accident, it was not medical  
12 malpractice.

13 Q I notice that your CV lists aircraft mishaps.  
14 What is your involvement in aircraft mishaps?

15 A For three years of my government service I  
16 investigated aircraft mishaps. Our primary job  
17 was to examine the remains, examine the crash  
18 site, brief the safety board, and render .  
19 opinions on survivability based upon impact  
20 speeds, preservation of occupiable space, and  
21 the post-crash environment.

22 Q I see.

23 What have you reviewed relating to the  
24 case of Porter versus Ghanma, et al.?

25 A Prior to rendering my opinion on the 25th of

1 June, and I'm referring to my opinion letter  
2 dated the 25th of June, I reviewed the records  
3 from Lorain Community and St. Joseph Regional  
4 Medical Centers from July 13th through July 15th  
5 of '95; Lorain County Coroner's autopsy report,  
6 verdict and photographs taken during the  
7 autopsy; microscopic slides provided by them as  
8 well as additional slides of the liver tissue  
9 which I had stained for iron; the deposition  
10 transcripts of Drs. Ghanma, G-H-A-N-M-A, Salka,  
11 S-A-L-K-A, Quansah, Q-U-A-N-S-A-H, and  
12 Dr. Onyekewere, O-N-Y-E-K-W-E-R-E, as well as  
13 depositions of Mr. and Mrs. Porter.

14 I reviewed letters of opinion by  
15 Dr. Shapiro and a Dr. Klein dated April 28th of  
16 '97, and the Ohio Division of Watercraft Boating  
17 Accident Report No. 95-05136.

18 Subsequent to that opinion I was also  
19 provided opinion letters by a Dr. McCauley,  
20 M-c-C-A-U-L-E-Y, Dr. Zumwalt, Z-U-M-W-A-L-T, a  
21 Dr. Cuydulka, C-U-Y-D-U-L-K-A, and a  
22 Dr. Klein, K-L-E-I-N and a  
23 Dr. Shapiro, S-H-A-P-I-R-O. I think that's  
24 everything.

25 Q The Shapiro and Klein letters you had had



1 previously.

2 A Let me see. The cover letter date -- let's see.  
3 That's correct. June 4th, right, I had those.  
4 As referenced in my report, correct. Correct.  
5 So just the other three, I guess, that I  
6 mentioned.

7 Q Do you know Dr. Zumwalt?

8 A Professionally, yes. Personally, no. I  
9 basically replaced him when he left Cincinnati  
10 for New Mexico. It was his position that I  
11 filled when I went to Cincinnati.

12 Q Did you discuss this case with him?

13 A The only thing I did on this case with him was  
14 to call him up and tell him that if he were  
15 going to order recuts of the liver to do iron  
16 stains, don't bother, I had already done it and  
17 he could review the ones that I had if he wanted  
18 to do it and save repetition. We did not  
19 discuss the case.

20 Q How about any of the other doctors whose reports  
21 you've read. Do you know any of the other  
22 physicians?

23 A No, I do not.

24 Q Have you been retained by Jacobson, Maynard &  
25 Tuschman prior to this case for other cases?

1 A Yes, I have.

2 Q How many occasions?

3 A My estimate would be total number. probably 45  
4 to 20 over six years

5 Q While you were in Cincinnati, were you  
6 represented by Macobson-Meyner at any time?

7 A No.

8 Q Were you insured by PIE?

9 MR TABER: Objection

10 A No Hamilton County was self-insured I did  
11 not have any personal or private insurance

12 Q Doctor. if a person dies of a thrombotic  
13 embolism that lodges in the lungs. you would  
14 expect to find evidence of that at autopsy.  
15 correct?

16 A In general, yes. if it's adequately looked for  
17 which I don't think it has in this particular  
18 case

19 Q Well, what I mean is that if a person dies of a  
20 thromboembolism in the lungs. you yourself would  
21 expect to be able to find it. correct?

22 A Yes.

23 Q And you would expect that. really. any competent  
24 coroner or medical examiner should be able to  
25 find evidence of a thrombotic embolism in the

1           lungs if that's what caused the person's death.

2       A       I think the obvious ones that are in the main  
3           pulmonary artery or at the saddle or very  
4           proximal are easy to find and I would expect a  
5           competent pathologist to be able to find them.  
6           Those that have been extensively resuscitated  
7           and given clot-breaking drugs, you have to look  
8           a lot more closely and a lot more at the  
9           periphery or end of the pipeline, so to speak,  
10          to find them.

11       Q       But wouldn't you expect that a competent coroner  
12           or medical examiner would be able to find  
13           evidence of a thrombotic embolism in the lungs  
14           even when there's been resuscitation and  
15           clot-dissolving drugs?

16       A       I would expect a competent forensic pathologist  
17           who is trained and board certified should be  
18           able to. I don't know if the average hospital  
19           pathologists have enough familiarity with it to  
20           find it

21       Q       You had slides of the lung to look at yourself.

22       A       Yes.

23       Q       Did you see any evidence of an embolism in those  
24           slides?

25       A       No.

1 Q Do you know of any evidence at autopsy that  
2 there was a thromboembolism in the lungs?

3 A The only evidence at autopsy to indicate a  
4 thromboembolism being present is the fact that  
5 all the blood vessels in the lung are dilated  
6 and engorged with blood. **So** it's indicative  
7 that there's an obstruction to flow. It's  
8 certainly not the embolizing you would expect  
9 with somebody who had bled out.

10 Q Besides that obstruction, what else would cause  
11 the finding of blood in the vessels in a patient  
12 like this who has been resuscitated for over an  
13 hour?

14 A Again, the fact that the blood vessels are  
15 engorged indicates that there's some obstruction  
16 to flow, whether they die immediately or whether  
17 they're resuscitated.

18 Q Well, what is the obstruction?

19 A The obstruction in my mind are peripheral emboli  
20 blocking the flow of blood through the lungs.

21 Q Why weren't they found?

22 A You'd have to ask the pathologist who did the  
23 autopsy.

24 Q Why didn't you find them in the slides that you  
25 had?

1 A Because the slides that I had don't show them.  
2 There are insufficient numbers to adequately  
3 sample the periphery of the lung.

4 Q Where are the slides that you have? Where on  
5 the lung are the slides that you had?

6 A As I remember, two do not show a pleural surface  
7 and one does show a pleural surface. So one is  
8 from someplace in the periphery of the lung, the  
9 other two are not from periphery.

10 Q And the one that you have from the periphery of  
11 the lung doesn't show any evidence of embolism?

12 A That's correct.

13 a Have you ever signed a coroner's verdict and  
14 listed as the cause of death a thrombotic  
15 embolism in the lungs when you could find no  
16 evidence of the embolism in the lungs?

17 A If I cannot find any evidence of embolism in the  
18 lungs, I have never signed the case out as  
19 thrombotic embolism, that's correct.

20 Q Have you ever concluded in a case where you  
21 could not find any evidence of embolism in the  
22 lungs on the slides that a person had died as a  
23 result of a thrombotic embolism in the lung?

24 A No. All other cases I have done or reviewed  
25 there was some evidence of there being emboli

1           there.

2       Q       So this would be the first and only case,  
3               correct?

4       A       The first so far, yes.

5       Q       Do you believe that Dr. Matus, Dr. Daniels, who  
6               performed the autopsy of Brad Porter, are  
7               incompetent?

8       A       I don't know what -- I don't think I'd call them  
9               incompetent. I don't think I'd employ them in  
10              my office though.

11      Q       Why not?

12      A       They don't have the necessary forensic  
13              qualifications or knowledge apparently.

14      Q       What do you base that on?

15      A       The fact that they did not look in the periphery  
16              for a thrombotic emboli, they did not look in  
17              the lower extremities for evidence of blood  
18              clots forming there, they did not look at the  
19              brain or rule out the possibility of air embolus  
20              as well as thrombotic embolus, all of which are  
21              obvious things to look for from a forensic  
22              standpoint in a death like this. They also  
23              misinterpreted the laceration in the liver.

24      Q       The timing?

25      A       Timing and as the cause of death.

1 Q How large does a thrombotic embolism in the lung  
2 have to be to cause a sudden death?

3 A For it to cause a sudden arrest, it depends upon  
4 how healthy the pre-existing lung is. Normally  
5 we would expect in a healthy individual that you  
6 would want to block approximately 40 percent of  
7 the total lung volume for blood supply to cause  
8 sudden death.

9 Q That's considered a large embolism, isn't it?

10 A It takes out -- well, it can only be a large  
11 embolism that takes out 40 percent or it can be  
12 multiple smaller emboli. A lot of times they  
13 shower with smaller emboli rather than just  
14 having one big one.

15 Q But the smaller emboli have to assemble to  
16 create a 40 percent blockage, don't they?

17 A Not really. They can go one to the right upper  
18 lobe of the lung, that may knock off 5 or 10  
19 percent; one can go to the right lower lobe,  
20 knock off 5 or 10 percent; another one can go to  
21 the same lobe or to the left lung. It just  
22 depends where the flow carries it.

23 And if they start adding up, knocking off  
24 40 percent of the lung, you're certainly at the  
25 risk factor of cardiac arrest. Although now

1           those are certainly easier to resuscitate than  
2           the massive embolism, but they're still  
3           potentially lethal.

4       Q       If it was one large embolism in Brad Porter's  
5           case, you'd expect anybody who is qualified to  
6           do any autopsy would be able to find that,  
7           wouldn't you?

8       A       If it was not treated. And the treatment of  
9           choice, if you can't get in there with a  
10          catheter, is CPR and blood clots -- blood clot  
11          breakers, excuse me.

12      Q       Even those though, a TPA -- which is what we're  
13          talking about, right, TPA?

14      A       Yes.

15      Q       Even use of TPA doesn't totally dissolve a large  
16          clot so that you can't find it at autopsy,  
17          correct?

18      A       That's correct. The mechanics of CPR have been  
19          shown on a few occasions to actually break up  
20          the clot. And then the TPA also acts to break  
21          up the clot. If you look carefully enough and  
22          follow all the vessels out, you should be able  
23          to find some residual.

24      Q       Do you have any reason to believe that  
25          Dr. Daniels or Dr. Matus didn't look for clots



1 in the lung?

2 A I would hope they looked. There is a generic  
3 statement, something to the effect that no  
4 thromboemboli are found. I don't know how hard  
5 they looked.

6 Q Assuming that there was thrombotic emboli, have  
7 you made a determination in this case as to  
8 whether it was more likely one large embolism or  
9 multiple emboli?

10 A Looking at the records, particularly anesthesia  
11 records, it would seem more indicative to me  
12 that a clot broke loose during the procedure  
13 which caused the sudden drop in blood pressure  
14 but it was not a lethal clot or a fatal clot.  
15 It was just enough to decrease blood flow  
16 through the lungs and cause a drop in blood  
17 pressure, and then the fatal one, which, again,  
18 would have been additive to the effect of the  
19 first one.

20 Q So your thinking is two large blood clots?

21 A Well, the first one, I think, is large enough to  
22 decrease blood flow and cause a drop in blood  
23 pressure. It's obviously not immediately  
24 lethal. And then a second clot, it could be.  
25 Or it could be the drop in blood pressure is due

1 to something different and there was just the  
2 blood clots at the fatal episode.

3 But it's not uncommon to have a previous  
4 showering or a clot breaking loose before the  
5 final one. Of those people with lethal saddle  
6 emboli, it's often in those that **block** the  
7 outflow from the heart that we see evidence of  
8 previous smaller ones out in the periphery.

9 Q Well, what is it that you think happened in this  
10 case?

11 A In this case I'm left with two possible emboli,  
12 one thrombotic, one air. I cannot rule out air  
13 because it simply wasn't looked for. So I'm  
14 left with although that is a possibility, the  
15 more well-documented one is thrombotic emboli.  
16 And based upon the anesthesia record, probably  
17 two events.

18 Q One event occurring earlier in the surgery and  
19 causing a decrease in blood pressure. That  
20 would be the one event.

21 A That's correct.

22 Q And then a second event, meaning a second clot,  
23 being the lethal event?

24 A Right. Breaking loose when he's being  
25 manipulated or prepared to be moved off the

1 table onto his bed or gurney or whatever they  
2 were moving him onto.

3 Q You don't think it was a series or shower of  
4 emboli?

5 A There's no evidence at the autopsy that there  
6 was repeated showerings and **there's** just that  
7 one episode of significant blood pressure drop.  
8 There's no evidence to suggest that constant  
9 showering. That's why I would -- my opinion  
10 would be two, two separate events.

11 Q Would those have to be two fairly sizable blood  
12 clots?

13 A In my opinion, yes. To cause a drop in blood  
14 pressure it would have to be a good-sized clot.  
15 And obviously, although the lung's already  
16 compromised if that first one occurred, then the  
17 second one also has to be significant to push  
18 him over the edge.

19 Q And somehow Dr. Daniels or Dr. Matus missed  
20 these two large clots at autopsy. Is that what  
21 you believe?

22 A Well, I don't know if they were still large at  
23 autopsy after the resuscitation and the TPA.  
24 But they did not describe clots being present in  
25 the lungs, and I think the indications are that

1           they are there.

2       Q       And the indications that they are there are  
3           what?

4       A       Are both the vascular congestion seen  
5           microscopically in the lung tissue and the  
6           clinical history of him developing what's called  
7           EMD, or pulseless electrical activity, as well  
8           as the echocardiogram that showed a massively  
9           dilated right side of the heart. These all  
10          would be indicative of an obstruction in the  
11          lungs and dilatation of the right ventricle and  
12          the outflow of blood.

13      Q       When did the first clot begin to affect  
14          Mr. Porter's blood pressure?

15      A       Let me refer to his medical records and look at  
16          the anesthesia record.

17                   It would appear to have occurred somewhere  
18          around 10 a.m. when the blood pressures which  
19          seemed to be running approximately 100 over 40  
20          drops down to approximately 60 over 40 or 60  
21          over 50, something like that.

22      Q       You believe that at that time a clot had lodged  
23          in Mr. Porter's lungs, correct?

24      A       I believe that that is a good explanation for  
25          that pressure drop if there were two clots

1           breaking loose at two different times. I have  
2           not found anything else at autopsy or in the  
3           records that would explain that sudden of a drop  
4           in blood! pressure and the fact that it then  
5           bounced right back up again.

6       Q       If the procedure had been stopped at ten  
7           o'clock, could the second and lethal event have  
8           been prevented?

9                       MR. WALTERS:           **Objection.**

10      A       It depends upon what precipitated that second  
11           event. If that was precipitated by movement of  
12           the patient off the operating table, it equally  
13           could have happened right away if they stopped  
14           the procedure then. I think the latter event by  
15           records coincided with the body -- at that point  
16           in time, still the patient -- being manipulated  
17           and being transferred off the operating room  
18           table. And just historically in my experience  
19           that's a risky point in time for breaking loose  
20           clots.

21      Q       And if the second event occurred as a result of  
22           further debridement of the wound, that could  
23           have been avoided?

24      A       It is possible that he could have survived the  
25           first event, yes, sir.

1 Q Doctor, is it true that Mr. Porter had a low  
2 blood pressure even before the procedure began?

3 A Well, to the best of my memory, and I can go  
4 through it, the base line values were 110 over  
5 60 on his anesthesia report. And at the  
6 beginning of it he's a little bit under 100 over  
7 40.

8 It doesn't surprise me that his blood  
9 pressure dropped under anesthesia and going into  
10 the operating room. His blood pressures  
11 previously, I think by the paramedic report and  
12 the ER report, were relatively stable. Maybe a  
13 little bit high, but not what I wouldn't expect  
14 for somebody under stress.

15 Q So you're saying that his blood pressure really  
16 wasn't that low prior to the procedure?

17 A No, not in my opinion and not to my memory.  
18 I've not looked at everything immediately prior  
19 to this deposition, but I did prior to rendering  
20 my opinion.

21 Q Well, are you aware that prior to the actual  
22 surgical procedure starting, Mr. Porter's blood  
23 pressure was being artificially elevated by the  
24 use of drugs on the part of the  
25 anesthesiologist?

1 MR. WALTERS: Objection.

2 MR. TABER: Objection. Can  
3 you be more specific about where in the chart  
4 you're pointing?

5 Q You have the chart right in front of you,  
6 Doctor. You can see where phenylephrine was  
7 given.

8 MR. TABER: What page?

9 MR. LANSDOWNE: It's on the  
10 anesthesia record.

11 A Well, on the chart that I have it says  
12 phenylephrine, it says phenylephrine given and  
13 it has it at approximately 9:30 and then at ten.  
14 I don't see it before then. At least not on the  
15 anesthesia record.

16 Q The surgery was begun when?

17 A I believe at 9:35 the anesthesia report says  
18 surgery started. 9:35, with anesthesia starting  
19 at nine o'clock.

20 Q So he was given at least one dose of  
21 phenylephrine before the surgery even started,  
22 correct?

23 A That's what it appears to be, yes, sir.

24 Q Let me just ask it this way. Are you aware that  
25 the surgeon has testified that if he had been

1           aware, the surgeon, that the patient's blood  
2           pressure was as low as it was before he started  
3           his surgery, he would not have even begun the  
4           surgical procedure?

5                       MR. TABER:               Objection.

6                       MR. WALTERS:           Objection.

7       A       I don't remember reading that, but it wouldn't  
8               surprise me if he thought hey, a low pressure,  
9               he wouldn't operate.

10      Q       Well, does that indicate to you that  
11               Mr. Porter's pressure was low before 10 a.m.  
12               when he had the sudden drop that you're  
13               attributing to a clot?

14                       MR. WALTERS:           Objection.

15      A       Well, looking at the record, he starts at a  
16               hundred over 40 and he apparently drops it down  
17               to 80 over 38 or something like that  
18               approximately 9:15 or so. And then he's given  
19               the phenylephrine which brings his systolic back  
20               up to somewhere in the range of 90 to the high  
21               80's, and then it appears he may be given  
22               another dose which brings it up to a hundred  
23               again, with the diastolic staying in the range  
24               of 35 to 40, until the ten o'clock event when  
25               the systolic drops out and the diastolic goes



1           slightly higher.

2       Q       **So** would that indicate to you that his blood  
3           pressure was low even before the time when you  
4           are positting that there was a clot?

5       A       It's low. It does go down to 80 and it's enough  
6           apparently for the anesthesiologist to feel that  
7           a drug or support is necessary. It certainly is  
8           not as precipitous a drop as the event at ten  
9           o'clock where it goes from a hundred down to 60  
10          in one fell swoop. It does appear that he is  
11          slowly losing some -- losing some blood pressure  
12          between nine and ten, which is then treated with  
13          drugs to get the systolic back up. But his  
14          diastolic does not drop.

15      Q       Well, what was causing him to lose pressure  
16          prior to ten o'clock?

17      A       I haven't the slightest idea.

18      Q       Does bleeding cause a loss of pressure?

19      A       Bleeding causes a loss of systolic pressure, a  
20          loss of diastolic pressure, and in general also  
21          would indicate an increase in pulse rate,  
22          depending upon how rapid it is.

23      Q       **So** that the fact that he had low pressure prior  
24          to the time that you say a clot caused a  
25          precipitous drop in blood pressure is just a

1 coincidence.

2 MR. TABER: Objection.

3 MS. MASSEY: Objection.

4 A I don't know if I would call it a coincidence.  
5 As I testified, I don't have an explanation for  
6 the slow drop in the systolic pressure. The  
7 significant drop I think is most consistent with  
8 him throwing an embolus probably at that point  
9 in time.

10 Q Just assume for me that at 9:12 Mr. Porter's  
11 blood pressure was 67 over 46. Can you tell me  
12 what caused that drop?

13 A If he's at 67 over 46, it could be that he's  
14 already been showering emboli. It could be  
15 something else is going on that's not documented  
16 by the records or the autopsy.

17 Q So you really don't know what would have caused  
18 a drop to 67 over 46 at 9:12 a.m.

19 MR. WALTERS: Where is that in  
20 the record?

21 A Not that I could see or have evidence to explain  
22 either in the records or by the autopsy.

23 Q Have you seen the photographs of the anesthesia  
24 equipment that were taken after the arrest in  
25 this case?

1 A No. The only photographs I've seen are those of  
2 the autopsy.

3 Q How much blood was found in the abdomen?

4 A I believe it was 1500 cc's. Or milliliters.  
5 About three pints.

6 Q How much does that correlate to in terms of  
7 circulating blood in the body?

8 A Well, let's see. They say he weighs 200 pounds.  
9 That would be approximately 91 kilograms. If  
10 he's the average person, he should have  
11 approximately not quite six liters of blood. so  
12 this would be about 25 percent of his total  
13 blood volume.

14 Q Is that enough to cause a drop in blood  
15 pressure?

16 MS. MASSEY: Objection.

17 A Sure is.

18 Q Is that enough to cause an arrest?

19 A Yes, it is.

20 Q You mentioned air embolism, Doctor. Let me just  
21 ask you, from your report, it seems to me that  
22 you say that that is a possibility, correct?

23 A Yes.

24 C But that you cannot substantiate it or disprove  
25 it. Correct?

1 A That's correct.

2 Q So in terms of your opinion, do you have an  
3 opinion with reasonable medical probability as  
4 to whether or not Mr. Porter had an air  
5 embolism?

6 A I don't think there's enough information there  
7 to reach any opinion with medical probability.  
8 It wasn't looked for, although it's a  
9 possible -- it certainly could be a possibility  
10 for his cause of death. It wasn't looked for.  
11 Since it wasn't looked for, I cannot say  
12 probably whether it was or was not there.

13 Q Well, what I'm trying to find out is when you  
14 come into court in Elyria, Ohio, is it going to  
15 be your opinion that Mr. Porter had an air  
16 embolism?

17 MR. TABER: Objection.

18 A It's going to be my opinion that the information  
19 clinically would suggest that an air embolism  
20 was a possible cause for his death. But I  
21 cannot tell you with any probability whether it  
22 was or was not the cause of his death because it  
23 was not looked for.

24 Q And is that really the same with respect to the  
25 thrombotic embolism?

1       A       I think the thrombotic embolism was also not  
2               adequately looked for. But the fact that there  
3               is the vascular congestion in the lungs would be  
4               more indicative of that being the cause of death  
5               than an air emboli. And there is certainly more  
6               information indicative of either one of these  
7               two being the cause of death than there is from  
8               bleeding out from the wound in the liver.

9       Q       Well, let me ask it this way. Do you have an  
10              opinion, given the information that you have and  
11              don't have, do you have an opinion with  
12              reasonable medical probability that Mr. Porter  
13              had two thrombotic emboli that caused his death?

14      A       With reasonable medical probability, I am sure  
15              that he had at least one. And based upon the  
16              records, I would think that it's 50/50, it's  
17              real close to probability, that he had the  
18              previous one.

19      Q       When **you** said "the previous one," you mean the  
20              non-lethal one at ten o'clock that we've talked  
21              about?

22      A       Right. The non-lethal one occurring  
23              intraoperatively with the ten o'clock blood  
24              pressure drop.

25      Q       And if we could just tick these off, the basis

1           for your conclusion with probability that he had  
2           one thromboembolism, I guess engorged vessels in  
3           the lungs would be one?

4       A       Seen microscopically, correct.

5       Q       And two would be what -- the dilated heart?

6       A       The dilated right side of the heart seen on echo  
7           during the resuscitation.

8       Q       What else?

9       A       The third would be the rhythm of EMD, or  
10           pulseless electrical activity, which means that  
11           the heart is apparently beating but it's not  
12           pumping anything would be indicative of some  
13           type of obstruction between the right side of  
14           the heart and the left side of the heart.

15      Q       Where are you getting that from, the pulseless  
16           electrical activity?

17      A       I think they actually call it EMD. I'm trying  
18           to remember whether it was in the charts or in a  
19           depo. Let me see.

20                   This is looking at the CPR, the Code 4  
21           record. I believe it's on Page 2 where at I  
22           think it looks like the time is 10:37 he has a  
23           heart rate of 52 beats per minute and no  
24           palpable pulses. That indicates he's got  
25           electrical activity and he's not generating any

1 pressure.

2 Q Is this at a time when he's getting CPR?

3 A This is during the resuscitation. This would  
4 be -- well, to get the heart rate of 52 with **no**  
5 palpable pulse, they would -- the no palpable  
6 pulse would be during CPR. The heart rate of 52  
7 would be what was showing up on the monitor.

8 Q While they were giving him CPR.

9 A Right, while giving him CPR. CPR does not cause  
10 electrical activity in the heart.

11 Q It doesn't cause a heart rate to show on the  
12 monitor?

13 A The heart rate on the monitor should be  
14 electrical activity. The heart in the CPR would  
15 not cause electrical activity.

16 And actually, if you look at the rhythm  
17 strip from 10:37, you can see that there is --  
18 and it's so noted -- that there is a heart rate  
19 of 52 and there's no palpable pulses and it  
20 shows electrical activity at the rate of 52 and  
21 that's not CPR-induced.

22 Q What other cause would there be besides an  
23 obstruction for a heart rate of 52 with no  
24 palpable pulses?

25 A With a heart rate that slow, that's the only

1            thing I can think of. I would not expect blood  
2            loss to cause a heart rate that slow.

3            Q            But I mean what would cause electrical activity  
4            and no pulses?

5            A            Other possibilities of electrical activity  
6            without pulses would be total left ventricular  
7            failure, muscle failure, pericardial tamponade  
8            would do it. Those would be the three primary  
9            ones off the top of my head.

10          Q            What about drug-induced like epinephrine?

11          A            Epinephrine **would** normally aggravate the  
12          conductivity of the heart and increase it. It  
13          should not result in an absence of blood  
14          pressure. Epinephrine usually raises blood  
15          pressure so you would expect to palpate a pulse.

16          Q            But would you expect epinephrine to increase the  
17          electrical activity of the heart?

18          A            Yes, it increases the electrical activity and it  
19          increases the excitability of the heart.

20          Q            And he had been given several doses of  
21          epinephrine by 10:37.

22                      You don't have to look, it's in the chart.

23          A            If he has, okay.

24          Q            I think I interrupted you then. You had listed  
25          the vessels in the lung, the dilated right side



1 of the heart, and then the heart activity  
2 without pulse as number three. Anything else  
3 supporting the probability of embolism?

4 A No. Those would be the three primary data that  
5 I would base the embolism on.

6 Q The dilated right side of the heart, how does  
7 that support the conclusion of an embolism?

8 A The right side becomes dilated because it's  
9 trying to pump against an obstruction. The  
10 blood that is pumping cannot go anywhere because  
11 of the obstruction, so it dilates.

12 Q So that would mean the obstruction was where?

13 A Somewhere in the lungs.

14 Q Just anywhere in the lungs?

15 A That's correct.

16 Q What did the heart look like on autopsy?

17 A Probably collapsed, as most of them do. Says he  
18 weighs it at 460 grams, which is a little bit  
19 big, but I don't know whether he's weighing it  
20 empty or full. Shows no evidence of injury,  
21 which would suggest that massive left  
22 ventricular muscle failure was unlikely. The  
23 valves look okay. Thicknesses look okay. The  
24 right ventricle's a little bit thicker than  
25 normal but not in the pathological range.

- 1 Q Any evidence of dilated right side of the heart?
- 2 A Post-mortem? No.
- 3 Q Would you have expected there to be if there
- 4 was, in fact, an obstruction?
- 5 A Not following death, no. Following death, it's
- 6 like you let the air out of a balloon. It comes
- 7 back down.
- 8 Q You mentioned something about dissecting the
- 9 legs to look for other emboli, is that right?
- 10 A You would be looking for blood clots that have
- 11 formed in the veins. They're not emboli until
- 12 they break loose and go someplace.
- 13 Q So you would just be looking for clots to sort
- 14 of substantiate that the blood was clotting and
- 15 that one of these or more may have broken off.
- 16 A You would be doing a complete autopsy and
- 17 documenting whether there was thrombosis or
- 18 thrombus formation in the area of the legs in
- 19 the area of injury, which would be a possible
- 20 source. You would need to do both legs because
- 21 you also have to make sure it's from the injured
- 22 leg, not from the other leg. If he's on bed
- 23 rest, he can certainly get it in the other leg,
- 24 too.
- 25 Q Do you dissect the legs on every patient or

1 every body you autopsy?

2 A If I have any concerns about a possible  
3 pulmonary embolus, yes.

4 Q Do you do it even if you don't find any evidence  
5 of emboli microscopically in the lungs?

6 A Well, the microscopics you don't get back **for** a  
7 few days following the autopsy, by which time in  
8 most places the body is gone. If the clinical  
9 history suggests an embolus, then you go ahead  
10 and do it even if you don't see anything grossly  
11 because you may not see it until you get to the  
12 microscopics.

13 Q When a person dies of a thrombotic embolism in  
14 the lung, can you tell me how that occurs  
15 clinically, what happens to the patient?

16 A It depends upon the circumstances and upon the  
17 size of the clot. In general, what happens is  
18 if it's a massive one, they usually just pass  
19 out and go to the ground or go to the floor.

20 If there are smaller ones beforehand and  
21 they don't immediately pass out, then they  
22 usually have a feeling of light-headedness,  
23 dizziness, shortness of breath, they usually  
24 increase their respiratory rate, and if it's  
25 being monitored, their blood pressure usually

1 drops. And depending upon how much obstruction,  
2 you may see the veins in the neck start  
3 dilating.

4 Q In **Mr.** Porter's case you believe that the  
5 terminal event or the lethal emboli would have  
6 been a relatively large one, correct? That's  
7 what we've discussed.

8 A Depending upon the size of the first one, if  
9 there was a first one, yes.

10 Q All right. But you're not really sure that  
11 there was a first one.

12 A That's correct.

13 Q So we have to kind of go with what your opinions  
14 are with reasonable probability. So with  
15 reasonable probability you believe that the  
16 emboli, the lethal emboli, was a relatively  
17 large one?

18 A Yes.

19 Q And it set up somewhere in the lung?

20 A Correct.

21 Q Do you have an opinion as to where was the most  
22 likely place for it to set up?

23 A I think originally, because he went into total  
24 arrest, it's most likely to have set up where  
25 the pulmonary artery comes out of the heart and

1 splits into the right and left. And that with  
2 the chest compressions and the blood clotting,  
3 the TPA, that it would have been spread out  
4 probably to both lungs after the periphery.

5 Q So are you saying initially it was a saddle  
6 embolism?

7 A I think if there was no first embolus, then the  
8 most likely thing is that the second one is a  
9 saddle embolism that would acutely block  
10 effectively either one side of the lung or the  
11 other side of the lung or a combined 40 percent  
12 or so of blood flow.

13 Q And saddle embolism, I mean that's the easiest  
14 one to find on autopsy, isn't it?

15 A If it's still there, you should not miss it.

16 Q Well, some evidence of it certainly would be  
17 there, of a saddle embolism, right?

18 MR. TABER: Be where?

19 Q In the lung.

20 A No, not in a person who had been resuscitated.  
21 You can actually break up a saddle embolism and  
22 cause it to dislodge and break into smaller  
23 pieces. And that's actually been documented in  
24 a few cases in the literature.

25 Q You could break it up. But there would be

1 evidence of it.

2 A There should be evidence of it, yes, and you  
3 should look for it.

4 Q And if you looked for it, you'd find it?

5 A I think I would, yes, sir.

6 Q So when this clot set **up**, this saddle embolism  
7 set up, Mr. Porter had an immediate drop in his  
8 blood pressure, correct?

9 A Yes.

10 Q And the blood pressure never returned. Correct?

11 A Not according to the records, no.

12 Q And so he was dead within how many minutes of  
13 this embolism setting up?

14 A Well, he's not dead until somebody pronounces  
15 him dead. I think with this degree of embolism,  
16 he's going to die once that embolism breaks  
17 loose and goes into his lungs. He's not dead  
18 until somebody pronounces him. But with the  
19 20/20 vision of hindsight, he's dead once it  
20 breaks loose and blocks the blood flow to the  
21 lungs.

22 Q And if this is what happened, this saddle  
23 embolism set up and caused that blood pressure  
24 drop at what time, is it, the --

25 A Appears to be about 10:35 or so.

1 Q And you're getting that from the what?

2 A The anesthesia record. The last set of vital  
3 signs are at about 10:15, then it says "Code,  
4 going to CPR."

5 And then that's the operative note, says  
6 the code was called at 10:28. So we're  
7 somewhere between now what -- 10:15 and 10:28.

8 Q Well, whenever that precipitous blood pressure  
9 drop was, if it was caused by a saddle embolism  
10 as you believe, from that point forward he would  
11 not have any further elevations in his blood  
12 pressure, correct?

13 A Anything that happens after that is CPR and is  
14 artificial.

15 Q If he had a spontaneous return of his blood  
16 pressure after the precipitous drop at 10:28,  
17 would that tend to indicate that this was not a  
18 saddle embolus?

19 A If he had high blood pressure returning  
20 following that?

21 Q Yes.

22 A I would -- then I would say it was not a saddle  
23 embolus

24 Q And then most likely -- again assume for me that  
25 he had a return of his blood pressure after this

1 precipitous drop at approximately 10:28. What  
2 was the cause of death under those  
3 circumstances?

4 MR. TABER: Could you point  
5 us to the record where you're referring to?

6 A If he gets a good blood pressure back after this  
7 event, then either it was not a saddle embolus  
8 or their treatment was somewhat effective in  
9 breaking it up so it didn't obstruct as much  
10 flow as it did when it was originally in the  
11 saddle.

12 Q You're talking about treatment. CPR treatment,  
13 resuscitation treatment?

14 A Resuscitation and chemicals, yes.

15 Q I'm talking about an elevation in blood pressure  
16 before any resuscitation is begun.

17 A Then that would indicate to me that either he  
18 did not have a saddle embolus or you've got some  
19 real interesting monitoring equipment.

20 Q When you do an autopsy, you do what is called a  
21 gross examination, is that right?

22 A Well, you start with an external examination,  
23 then an internal examination, then microscopic  
24 examination and drugs or other things, if  
25 indicated.



Q When you're doing just the external and internal before you get to the microscopic, is that what it is sometimes referred to as the gross examination. You're just looking at it with your own two eyes?

A Well, I don't -- I have not heard that referred to as the gross examination. It's usually split between the gross and the microscopic. And the gross is everything you do at the autopsy table to include the internal exam, and the the microscopic is obviously what you do with the microscope.

Q Okay. What I'm really getting at, is part of the exam just looking at the organs and looking at the internal organs with your eyes? Is that --

A Yes.

Q -- considering part of the autopsy?

A Yes.

Q And do you use that to support some of your conclusions, what you actually see with your eyes as you're doing the examination?

A Correct. What you see as well as what you don't see, yes.

Q And that's -- you teach, don't you? You teach

A Yes. I do.

Q What's one of the things that you tell your students, that they have to be alert and be watching everything that they're doing during that autopsy. Watching for evidence, clues, et cetera.

A I tell them that they should be observant, they should note things. They should be constantly thinking and looking for what the presence of something means and what the absence of something means; that it is not just a checklist of looking at things, but to be thinking: Is this what it appears to be or what would it be?

Q And when you do an autopsy yourself, do you feel that you are in the best position to conclude what the cause of death is?

A In general, yes. There are certain areas where I look for other people's expertise such as in neuro or brain pathology, psychiatric pathology. When I was at the Armed Forces Institute of Pathology, that was our major professional therapy, was to be a consultant for the military and the civilian population. So I have my knowledge bank, and if it's something outside my knowledge bank, I go to experts in the field.

Q But outside of the situations involving, say, neuropsychology or pediatric -- let me phrase that

In the autopsy that does not involve, say, brain pathology or pediatric pathology, when you do the autopsy, you feel that you're in the best position to determine the cause of death?

Correct?

A In general, that's correct. I see something I'm not sure on before, I may sell in one of my colleagues and say: What do you think about this? But in general, yes, I feel I'm in a better position to do it.

Q And part of that is because you're able to do there, see the internal organs, visualize them, feel them, correct?

A That's part of it, yes.

Q So you think that someone coming in two years later after you've done an autopsy is in just as good a position as you are when you do the autopsy to determine cause of death?

MR. TABER: Objection.

A Not if I did an equivalent job, no.

Q Have you ever heard of the term 'sudden bacterial death'?

1 A Yes.

2 Q What is that?

3 A Sudden bacterial sepsis is pretty much what it  
4 describes. It's sudden, it's not a slowly  
5 progressive thing. It's bacterial where  
6 bacteria and, more worrisome, some toxins  
7 produced by bacteria get into the bloodstream  
8 and they usually call it -- "sepsis" usually  
9 initiates a bacteremia in the bloodstream. It  
10 really isn't sepsis until they proliferate in  
11 the bloodstream and start causing symptoms.

12 Q Have you ever listed that as a cause of death?

13 A Yes, once, due to spontaneous bacterial  
14 peritonitis, yes. I think one time.

15 Q Did Mr. Porter have a sudden bacterial sepsis?

16 A Not that's documented, no. And the clinical  
17 history of a sudden total collapse is unlikely  
18 with that diagnosis.

19 Q Did he have sepsis at all?

20 A Not that I have seen documented. I'm sure he  
21 did. I cannot imagine him having this type of  
22 injury without bacteria getting into his  
23 bloodstream. So he certainly had a bacteremia.  
24 I don't remember seeing in his chart anything  
25 where I would say that he was septic.

1                   And a lot of people use "sepsis" to mean  
2                   bacteria in the blood. And I prefer the term  
3                   "bacteremia" to mean bacteria in the blood.

4                   Sepsis, or being septic, to me indicates  
5                   that there are signs and symptoms of shock and  
6                   damage to the body because of the bacteria.

7       Q           Under that definition you do not believe he was  
8                   septic, correct?

9       A           No, I do not.

10      Q           Is sepsis generally a sudden process?

11      A           No.

12      Q           Generally it's something that occurs over a  
13                   period of time?

14      A           Generally it's progressive with seeding of  
15                   bacteria into the bloodstream and then those  
16                   bacteria multiplying and additional bacteria  
17                   going into the bloodstream and release of toxins  
18                   by the bacteria and then development of sepsis.

19      Q           You did iron staining in this case?

20      A           Yes, I did.

21      Q           I'm not sure I can follow a detailed  
22                   description, but can you just generally tell me  
23                   what that means?

24      A           It's basically taking the microscopic tissue,  
25                   cutting it very thin like you do for any

1           microscopic slide, and then you stain it with a  
2           combination of a hydrochloric acid, which  
3           reduces the iron, and then a blue stain that  
4           reacts with iron, and then you look for that  
5           blue-stained iron in the microscopic sections.

6       Q       And what is the end purpose of all that?

7       A       The end purpose of all of that is to see if  
8           there's any free iron in that slide or in that  
9           field which would indicate that there has been  
10          breakdown of red blood cells and release of iron  
11          into that area.

12      Q       And that correlates to timing of injury or what?

13      A       Yes, it correlates to timing of injury. Red  
14          blood cells, once they get out of the  
15          bloodstream, begin to hemolyze and break down.  
16          And depending upon whose studies you look at,  
17          usually 24 to 36 hours following this there is  
18          free iron which will stain positively in the  
19          tissues.

20      Q       Okay. So in this case you did the iron staining  
21          for the purpose of determining what?

22      A       Whether or not there was any iron, free iron, in  
23          the area of injury of the liver as shown on the  
24          three different slides.

25      Q       And the three different slides you had were from

1           what?

2       A       They were from the autopsy and they were from,  
3               hopefully, blocks of tissue retained at the  
4               coroner's office that **we** asked them to recut and  
5               send.

6       Q       What blocks of tissue? From what? The liver or  
7               what?

8       A       From the liver laceration.

9       Q       The entire laceration or just a part of the  
10              laceration?

11      A       Just part of the laceration. Whatever part the  
12              autopsy pathologist took and submitted for the  
13              blocks and microscopics.

14      Q       So you had three slides of a part of the  
15              laceration. Correct?

16      A       Correct.

17      Q       And how much would that -- how long was the  
18              laceration altogether, the liver laceration?

19      A       It says five by two centimeters. That would be  
20              approximately two inches by one inch.

21      Q       And the slides that you had covered how much of  
22              that? A millimeter or something?

23      A       Probably slightly more than that, depending upon  
24              how he sampled it at autopsy.

25      Q       Well, a millimeter, maybe two?

A To my memory there were maybe three different blocks of tissue so he would have taken three different areas. Whether they were adjacent to each other or whether one is from the middle and one from each end, I have no idea.

Q It would be better if you had one from each end than from the middle, I guess. I mean better forensically.

A That's what I would have done and that's what I would have taught a resident doing the case, yes. Also, label which was which was which.

Q Were they labeled?

A No.

Q Of the three that you did, what did you find? What's your conclusion?

A I found there was no evidence of iron, there was no evidence of an inflammatory response. That is, there were no white blood cells that had gone into the area of the liver that was damaged. There was -- there were a few fibrin adhering to each other, but no advanced clot formation. And there was no damage to the liver cells. They looked -- except for the fact that they were separated from each other, due to hemorrhage, there was no damage to the liver



cells themselves.

Q Indicating to you what?

A That there's no evidence of any injury 36 hours old or older than that. Not even 24 hours old. As a matter of fact, it looks like an asut injury, something you would see if you did an autopsy on somebody who died at the scene of a traffic accident and had a lacerated liver.

Q So do you have a conclusion as to when that injury occurred?

A It's primortem occurring around the time of death.

Excuse me for one second. I'm not going to disagree, but I am on call for court so I'm going to mute it. I'll be right back.

(Short break)

THE WITNESS: I'm sorry. I'm not going anywhere right now.

Q Okay. Well, that's good.

Do you believe that this was an injury that most likely occurred as a result of resuscitation then?

A Yes, sir.

Q Attempted resuscitation.

A Yes, sir.

1 Q Let me just ask you this. Is it possible that  
2 there was a laceration smaller than the one that  
3 was ultimately found on autopsy, but a smaller  
4 laceration that then was opened up more by the  
5 resuscitation efforts?

6 A Yes, that's possible, yes.

7 Q And that, for whatever reason, the three slides  
8 you have just didn't include the older part of  
9 the laceration?

10 A That's possible, yes, sir.

11 Q What about are there other ways to date an  
12 injury besides staining, iron staining?

13 A What you look for on internal injuries is you  
14 look for the body's response to the injury such  
15 as death of the cells, an inflammatory or white  
16 blood cell response, the formation of a clot or  
17 a thrombus around the injury. Externally there  
18 are colorations that you can look for.

19 Q Colorations like what?

20 A Purple, blue, green, red, yellow, brown.  
21 Different progressions of a bruise or injury as  
22 it disappears. Those are for bruises  
23 externally, in the skin.

24 Other types of wounds externally such as  
25 lacerations or cuts, again, you go back

1            basically to the microscopic, to the body's  
2            response to the injury.

3        Q        Looking at the -- well, let me just ask you  
4            about the blood itself. Blood in a cavity like  
5            the abdominal cavity. Does the blood itself  
6            have an appearance change over time?

7        A        Over time it usually gets darker and begins to  
8            liquify.

9        Q        Is that something that the doctor who did the  
10            autopsy on Brad Porter would have had an  
11            opportunity to see?

12      A        Yes. And he describes it as red blood and  
13            clots.

14      Q        "And clots"?

15      A        "And clots," yes.

16      Q        What would the clots indicate?

17      A        The clots would indicate that the blood has not  
18            been in there a long period of time because the  
19            clots usually begin to break down to the  
20            abdominal cavity quite quickly. So it would  
21            indicate to me that's a relatively fresh bleed,  
22            as does the coloration of red blood indicate  
23            that it's a fresh bleed.

24      Q        If this was caused by that, the liver laceration  
25            was caused by resuscitation efforts, what you're

1            talking about is somebody actually compressing  
2            his chest and abdomen and causing that injury?

3            A        That's correct.

4            Q        Would you expect there to be bruising caused by  
5            that kind of compression, enough to cause an  
6            injury to the liver?

7            A        In general, no. Even really good CPR in younger  
8            people, because they're so flexible, doesn't  
9            leave bruising. And then we're also faced with  
10          the fact that to develop a bruise, you've got to  
11          have blood flow into the area of damage. And  
12          looking at this situation, since it's on the  
13          front of the chest, following the CPR, most of  
14          the blood during resuscitation is going to be  
15          going out into his abdomen. And after he dies,  
16          there's basically not going to be any blood flow  
17          into the area of his chest or the skin of his  
18          chest when he is being compressed.

19                    So it doesn't surprise me at all that we  
20          do not see bruising on the chest. I see many  
21          people who have been CPR'd and show no bruising  
22          on the chest.

23          Q        We're getting a notice here, five minutes  
24          remaining. I don't know if they're going to  
25          shut us down here or not. But if they do, we

1           have a speakerphone here, and I think you do  
2           there, we can probably just finish this without  
3           the picture, I'm told.

4       A       That would be fine. Also, I just found out that  
5           I was supposed to fly back to Cincinnati on the  
6           4th and testify on the 5th, and that settled.  
7           So if need be, we can probably arrange something  
8           on the 4th or 5th if your schedules allow that.

9       Q       Well, I don't think we'll go that long anyway.

10      A       Okay. I'll shut up. Ask questions.

11      Q       In terms of these resuscitation injuries, is  
12           that something that's been written about in the  
13           literature that you're aware of?

14      A       I would expect so. I would doubt that it's been  
15           a forensic pathologist because most of us don't  
16           have a whole lot of time to write. We certainly  
17           see it and we certainly teach people about them.

18                   There's certainly enough common knowledge,  
19           I think, in my field that I don't go looking at  
20           a book to document it.

21      Q       When you're talking about a liver injury caused  
22           by resuscitation, what is the process that  
23           causes the injury?

24      A       The process that causes the injury is either bad  
25           CPR where the pressure is applied directly to

the liver or extensions, very deep chest  
 compressions, the liver is pushed backward. It  
 is then somewhat stretched as portions of it are  
 over the spine and portions of it are around the  
 caliform ligament are <sup>r</sup>where it's firmly  
 attached

So you get either a compression squishing  
 laceration or you get a spreading pressure force  
 portions of it are going over the spinal cord  
 and the other portions firmly attached. And it  
 has to give somewhere and it gives posteriorly  
 near the caliform ligament. It's a classical  
 site for it.

Q Are there injuries also caused to the anterior  
 portion of the liver? say, the xiphoid

process being compressed down on top of it?

A Usually the only -- it's very rare to see an  
 anterior injury without a posterior injury  
 unless you've got a rib -- or the sternum,  
 actually, a more accurate than the xiphoid --  
 but unless you have a rib fracture and the  
 that gets pushed in against the front of the  
 liver otherwise, you normally see a posterior  
 injury before you see an anterior.

Q When you were back here in Ohio, were you

1 familiar with the procedure for challenging the  
2 results of the coroner's autopsy conclusions?

3 A Not real familiar because it was handled by the  
4 coroner. I think there was one case in my  
5 experience that the cause of death was  
6 challenged. I think the attorney went to get a  
7 court order to get it changed or something along  
8 those lines. Most of it happened after I left.  
9 And the coroner then, Frank Cleveland, I don't  
10 think he would change anything if God ordered.  
11 But he's been replaced and I don't know if his  
12 replacement changed it or not.

13 Q Well, let me ask you this. Do you know of any  
14 evidence that anyone objected to the autopsy  
15 results relating to Brad Porter until this  
16 lawsuit was filed?

17 MR. TABER: Objection.

18 MS. MASSEY: Objection.

19 A As far as I know, no. I've got no knowledge of  
20 this. I obviously had no knowledge of the death  
21 prior to my being retained, and I have been  
22 shown no records that anyone objected to cause  
23 of death prior to when I -- as far as I know,  
24 prior to my looking at it.

25 MS. MASSEY: It says: Do you

1 wish to extend meeting, yes or no?

2 MR. LANSDOWNE: Yes. If we can  
3 just extend it, let's just extend it.

4 MS. MASSEY: Want me to hit  
5 Yes?

6 THE WITNESS: Are you dropping  
7 a few more quarters down the slot?

8 MR. LANSDOWNE: That's about  
9 what it is.

10 MS. MASSEY: Go ahead.

11 BY MR. LANSDOWNE:

12 Q When were you retained, just so we have that  
13 date?

14 A Let me look at the records. Let's see. The  
15 first letter I have is December 2nd, 1996, and  
16 it says "Thanks for agreeing to review this  
17 interesting case," et cetera, et cetera.

18 So I would say sometime shortly on or  
19 shortly before December 2nd of '96.

20 Q By the way, is that your entire file on this  
21 case before you?

22 A This is my entire file except for the  
23 depositions. I didn't drag the depositions with  
24 me. But this is my entire file. It includes  
25 the pictures, it includes correspondence between



1           myself and the law firm, which basically is  
2           "Enclosed is this, enclosed is that," and Here's  
3           when we're going to do the deposition," the  
4           opinion letters I've talked about, the reports  
5           I've talked about, and my letter.

6                     And the only thing I don't have with me is  
7           the microscopic slides, and I didn't drag the  
8           depositions with me because I figure you guys  
9           got those.

10       Q       Okay. Let me ask you if you agree with this  
11               conclusion as to cause of death.

12                     "Immediate cause of death,  
13           hemoperitoneum." Immediate cause of death.

14       A       No.

15       Q       "As a result of laceration of liver,"  
16               intervening cause of death.

17                     Agree, disagree?

18       A       No. I think that's probably what caused the  
19               hemoperitoneum. But I don't think it has  
20               anything to do with his cause of death.

21       Q       "As a result of attempted cardiopulmonary  
22               resuscitation," intervening cause of death.

23       A       Yes. I think the CPR is what caused the liver  
24               laceration which caused hemoperitoneum.

25       Q       "As a result of septic shock," intervening cause

1 of death

2 A I don't believe the septic shock enters into the  
3 picture on this case

4 Q Okay. And then I guess As a result of bacterial  
5 wound infection."

6 Again, you don't think that enters into  
7 the picture other than that --

8 A Again, I think he had bacterial wound infection  
9 and he does a bacteremia I don't see any  
10 evidence to bring in sepsis or septic shock, no  
11 Let me just go back to some things we discussed  
12 and just try and wrap this up before we have to  
13 put more quarters in, as you say

14 Can you point to me any text that would  
15 support concluding that a thromboembolism in the  
16 lung is the cause of death when there's no  
17 evidence found at autopsy of embolism, of an  
18 embolism in the lung?

19 MR. TABER: Objection

20 Q Do you see my problem?

21 A I think I understand that question

22 I think it's kind of a negative  
23 proposition, that if it's not found because it's  
24 not looked for, nobody is going to be able to  
25 report it

1           The second thing is, it's just my own  
2           little pet peeve, is that when somebody asks me  
3           to be an expert, I don't go run and do  
4           literature searches or medical searches because  
5           a medical student can be an expert if that's  
6           what you want them to do. I base my testimony  
7           on my knowledge, experience, and readings I've  
8           done in the past. I don't routinely go back and  
9           do literature searches. So I can't tell you  
10          whether it's ever been reported in the  
11          literature, but I would tend to doubt it.

12        Q        I mean you don't know of any literature that has  
13                supported a conclusion of a thromboembolism  
14                causing death when there was no emboli found in  
15                the lung at autopsy. Correct?

16        A        Certainly not in the acute phase. People can  
17                throw a pulmonary emboli over their lifetime,  
18                develop pulmonary hypertension and die as a  
19                result of that, and the bottom underlying cause  
20                is the emboli and the emboli are long gone.

21                But in the acute phase such as this case,  
22                I don't know of any literature that documents it  
23                as a cause of death if the pathologist doesn't  
24                find it.

25        Q        Couple times you said they weren't looked for,

1 "they" meaning emboli. What evidence do you  
2 have that Dr. Daniels and Dr. Matus didn't look  
3 for emboli in the lungs?

4 A Well, what I have is two things. Actually,  
5 three things.

6 Number one, they didn't look for emboli at  
7 all. They certainly didn't look for air emboli.  
8 They didn't look for any blood clots in the legs  
9 that could be a source of emboli. Their only  
10 comment is -- there's no mention of it under the  
11 Cardiovascular section and then under the Lung  
12 section they just say "No thromboemboli are  
13 noted." Okay?

14 That, to me, means that we didn't see  
15 anything obviously. It doesn't say we traced  
16 out the blood vessels, it doesn't say we  
17 examined the periphery, it just said "No  
18 thromboemboli are noted." It doesn't tell me at  
19 all that they spent much time looking for them.

20 It's like the famous "No enlarged  
21 parathyroid glands are found." It doesn't mean  
22 I didn't look for them. And if no enlarged  
23 parathyroid glands are found, no unenlarged  
24 parathyroid glands are found either.

25 Basically they didn't give any description

1 of the pulmonary vasculature in a case that  
2 strains for it.

3 Q Well, what if Dr. Daniels were to testify under  
4 oath that he looked for emboli and he didn't see  
5 any? And he looked hard for them and he didn't  
6 see any. Would you have any reason to doubt his  
7 testimony?

8 MS. MASSEY: Objection.

9 MR. WALTERS: Objection.

10 A I would have no reason to doubt his testimony  
11 that he looked for them. He may have looked for  
12 them as hard as he could. I think, number one,  
13 he missed them; and I think, number two, if he's  
14 going to continue to do coroner forensic work,  
15 he may need or choose to spend some time with  
16 the coroner's office in Columbus or Cincinnati.  
17 I wouldn't recommend Cleveland.

18 Q You wouldn't recommend Cleveland?

19 A No.

20 Q Why not?

21 A I've seen a lot of cases come out of that office  
22 where standard medical examiner forensic  
23 procedures were not followed.

24 MR. LANSDOWNE: Sounds like --  
25 are you still there, Doctor? Apparently not.

1 MR. TABER: We're off the  
2 record.

3 (Short break)

4 BY MR. LANSDOWNE:

5 Q Just a few more things here.

6 A All righty.

7 Q Other people might have some questions.

8 I have a copy of a one-page compilation of  
9 your notes here. I just want to ask you a few  
10 things.

11 The very last thing on there is "Big  
12 dilated heart not C" --

13 A "Not consistent with."

14 Q -- exsanguination." What do you mean by that?

15 A Well, if somebody is exsanguinating, they're  
16 losing blood. You would expect the heart to be,  
17 you know, collapsed down, not dilated, because  
18 of a decreased amount of blood. But when the  
19 heart dilates, particularly the right side, it's  
20 indicative of obstruction of flow or pericardial  
21 tamponade, which you don't get pericardial  
22 tamponade -- I'm sorry -- it's indicative of  
23 some type of obstruction to flow so the heart is  
24 not able to pump it out. **So** it's not consistent  
25 with exsanguination or blood loss.

1 Q I know what your comments were about literature,  
2 but have you read any literature about the  
3 effects of TPA on the ability to find emboli at  
4 autopsy?

5 A Not for this case. I've read materials in the  
6 past. And the vast majority of the times that  
7 it's used, if it's not -- obviously if it's not  
8 successful, you find the clots. If it is  
9 successful, you know, the clots go away.

10 Q And the person survives.

11 A And we don't autopsy them.

12 Q Right. But in general it's accepted that the  
13 use of TPA will not prevent finding emboli at  
14 autopsy. Correct?

15 A In general, yes.

16 MR. LANSLOWNE: I'm just  
17 checking over my notes here. If anyone else has  
18 any questions, they could go ahead while I check  
19 them over. I don't know if anybody does.

20 MR. TABER: Dennis, there's  
21 one opinion you haven't asked him that he has  
22 discussed with Don. If you would like to let me  
23 go ahead, I can follow up on a question you  
24 asked.

25

## EXAMINATION OF HARRY J. BONNELL, M.D.

BY MR. TABER:

Q Doctor, correct me if I misstate, but I think you were asked whether 1500 cc's of blood loss could cause death. And I think there wasn't a time period mentioned. But I understand from Don that you have an opinion as to whether 1500 cc's of blood loss would cause death over a two-day period.

A Yes. When I was talking about it causing death, that's acute blood loss. That's a single event. If you slowly are losing blood, that much over, you know, a two- to three-day period, you know, you'd have to lose a lot more. It's like the body compensates. And so I'm referring to like sudden losses.

Sane thing when I say 40 percent of lung tissue or lung volume being affected by the blood clot. That's acutely. If you lost that percent over the period of several days or weeks, the person certainly survives that. They may become a respiratory cripple, but it's not lethal.

The blood loss being lethal and the amount of lung being damaged lethally are a one-time or



1 very short interval-event, not spread over days.

2 MR. LANSDOWNE: I think I follow  
3 your conclusion there, Doctor.

4 MR. WALTERS: Identify  
5 yourself.

6 MR. LANSDOWNE: This is Dennis  
7 Lansdowne again.

8 EXAMINATION OF HARRY J. BONNELL, M.D.

9 BY MR. LANSDOWNE:

10 Q With respect to that, what you're saying is that  
11 1500 cc's over a couple days, the body would  
12 compensate for that, so it would not likely be  
13 the cause of death even if there was a bleed  
14 back at the time of the original injury. Is  
15 that right?

16 A That's correct.

17 Q And by "compensate," what do you mean?

18 A I mean that it -- although your hemoglobin and  
19 your hematocrit will drop down, you will still  
20 replace that lost volume enough that you can  
21 keep up a blood pressure and you can keep  
22 adequate oxygenation and perfusion of your  
23 organs. That's what I mean by the body has the  
24 ability to compensate and adjust. It can pick  
25 up the heart rate or the pulse rate so it pumps

1 a little bit more blood when the intravascular  
2 volume is down a little bit.

3 Q At some point, even when you're losing blood  
4 slowly, the body is not able to compensate or  
5 "keep up," which is, I think, the term that you  
6 used in your report.

7 A That's correct. If you continue to have a blood  
8 loss, eventually your body will not be able to  
9 keep up with it. Now, the body can do great  
10 things. If you look at, for example, alcoholics  
11 who have gastrointestinal bleeding, I know they  
12 easily can lose 40 to 50 cc's, you know, a day,  
13 into their intestines and they continue on in  
14 their alcoholic ways and they don't die from  
15 that blood loss. But if they develop a sudden  
16 bleed from a ruptured blood vessel, then it  
17 becomes rapid and they die.

18 So it depends upon how much is being lost  
19 in a period of time. And the bottom underlying  
20 factor, of course, in every individual is their  
21 status beforehand. In other words, do they have  
22 other risk factors that put them at a greater  
23 risk of dying from any kind of extra pressure or  
24 compromise.

25 Q So would an infection in a person have an effect

1 upon their ability to withstand extra pressure  
2 or compromise?

3 A Yes. An infection already stresses the body,  
4 particularly the immune system And so it would  
5 decrease their ability to respond to an initial  
6 insult. More so -- not so much, I think, in a  
7 healthy 20-year-old as much as a you know  
8 older multi-diseased 60- or 70-year-old

9 I hope I'm not offending any of you on  
10 video for saying that

11 Q Do you know how much blood Mr Porter lost from  
12 the laceration to his thigh?

13 A No I don't I understand that a lot of his  
14 dressings were blood-soaked but I did not see  
15 any good measurements as to how much he lost  
16 that way

17 Q Are you able to even give a range for how much  
18 he might have lost?

19 A No. I'm not Not from the record that I saw.  
20 no

21 Q Are you able to say whether the combination of  
22 1500 cc's of blood lost over a couple days plus  
23 the amount of blood lost from his leg would have  
24 been enough to cause an arrest in this patient,  
25 or even without the amount of blood from the

1 leg, or are you just not able to respond to  
2 that?

3 MS. MASSEY: Objection.

4 A I don't really think I can respond to that  
5 because I cannot in my own mind estimate how  
6 much blood he lost there through his leg injury  
7 or through his fractured leg. I just don't  
8 know.

9 Q So putting it another way then, it is possible  
10 that with the combined loss of blood from his  
11 leg, and, hypothetically, a loss over a period  
12 of a couple days of the 1500 cc's from his  
13 liver, coupled with the compromised status from  
14 his infection, that it is possible that that  
15 could have led to his arrest.

16 MS. MASSEY: Objection.

17 MR. TABER: Objection.

18 A I think whatever the volume was from his leg and  
19 if you throw in the volume from the abdomen and  
20 all the other things you put in, I think that  
21 all those contributing could have caused his  
22 death. But I would not expect it to be a sudden  
23 drop in blood pressure and a sudden cardiac  
24 arrest. I would expect that he would have, you  
25 know, gone into shock, slowly decreased his

1 blood pressure and increased his pulse. At  
2 least that's the typical history or scenario  
3 when somebody, as we say, slowly goes down the  
4 tubes.

5 Q Even if they're under anesthesia?

6 A I would not -- for this duration of anesthesia I  
7 think that that opinion would still be true.  
8 The anesthesia could support them, but over the  
9 time interval of, I think, an hour to an hour  
10 and a half of anesthesia the scenario just  
11 doesn't match it. And of course neither does  
12 the timing of the injury to the liver. But is  
13 it possible? Yes, anything's possible.

14 Q Give me one more minute here, Doctor.

15 I really don't know exactly how to ask  
16 this, but let me try.

17 With respect to the sections of the lung  
18 that you have, they are identified as one is  
19 from the periphery and two are interior. Is  
20 that correct?

21 A No, they're not identified as to where they're  
22 from.

23 Q Are you able to tell --

24 A Oh, you mean the lung. I'm sorry. I was  
25 thinking liver.

1                   No, they're not identified. What you're  
2                   looking at is what's on the slide. And if you  
3                   are asking me whether or not I remember seeing  
4                   pleural surface, pleural surface would indicate  
5                   the surface of the lung and therefore the  
6                   periphery. And as I remember, only one of them  
7                   showed pleura.

8       Q       Do you know how much of the lung was examined  
9                   microscopically?

10     A       In general, I would have to say a minimal  
11                   amount. When you consider the total volume of  
12                   the lung and what little bit is represented on  
13                   those slides, we're probably easily looking at  
14                   well less than 1 percent of total lung volume by  
15                   what's on the slide.

16     Q       And for taking samples, is that a normal  
17                   percentage?

18     A       That would probably be a normal percentage if  
19                   you were not thinking about thrombotic  
20                   phenomenon, if this were somebody who obviously  
21                   had a heart attack or was run into by a car. I  
22                   would hope that there would have been more  
23                   there. And I don't know how much they may have  
24                   saved and kept in a jar for additional  
25                   processing.

1 Q Are you saying that they should have examined  
2 more than --

3 A My opinion, yes, sir.

4 Q And you think that somewhere in that lung tissue  
5 you would have found something. Correct?

6 A If there had been additional sampling, yes, sir.

7 Q When you're selecting the sample, do you try and  
8 select the -- how do you go about selecting it  
9 if you're trying to find emboli?

10 A What you should do is you start with the  
11 pulmonary arteries at the hilum, or central  
12 portion of the lung, and then you trace them all  
13 out as they split. It's kind of like looking at  
14 the root system of a tree. And you go as far  
15 out as you can in looking for any emboli that  
16 are there.

17 If you find anything, you obviously select  
18 that area. If you don't find anything, then you  
19 select multiple areas. My practice would be at  
20 least two from each lobe. So it would be a  
21 total of at least ten sections from the  
22 periphery or pleural surface of the lung, and  
23 probably keep a whole lot of lung tissue, if not  
24 the entire lung, in a fixative or in formalin  
25 until the original stuff comes back. And then I

1 know whether I need to look at some more or not.

2 Q And do you know, in terms of the procedure that  
3 you described, following the trunks out, do you  
4 know whether that was done in this case?

5 A It's not described so I don't know whether it  
6 was done. There's no evidence that it was done.  
7 If they're going to say now, if the pathologist  
8 now says he did it, then I certainly cannot  
9 doubt the fact that he did it. And all I can  
10 say is that the amount of lung tissue seen  
11 underneath the microscope is a lot less than  
12 what I would expect if no emboli were seen  
13 grossly and were adequately looked for.

14 Q If you determine -- I mean in this case the  
15 coroner did determine a cause of death.

16 A "A" cause of death, yes, sir.

17 Q And once you've determined a cause of death,  
18 does that affect how you approach the rest of  
19 the autopsy?

20 A Well, it's -- there's a doctor, forensic  
21 pathologist, who gives an entire one-hour  
22 lecture on exactly what you just said, and that  
23 is: Are you determining a cause of death or  
24 "the" cause of death?

25 If you go in there and see a belly full of



1 blood and you say, "Aha, I know why he died" and  
2 you stop looking for possibilities, you may have  
3 found a cause of death, you have not necessarily  
4 found the cause of death. You may be ignoring  
5 something. And that's what I think happened in  
6 this case.

7 Q You would acknowledge if you have somebody hit  
8 by a car, you're not going to section as much  
9 lung as you would somebody that you're  
10 suspecting of having an emboli, correct?

11 A That's correct.

12 Q So part of what you do in an autopsy is  
13 determined by the history that you have when you  
14 get the body, right?

15 A Correct. And then what you find as you're doing  
16 the autopsy.

17 Q And what you find as you're going, correct?

18 A Right.

19 MR. LANSLOWNE: I think that's  
20 all the questions I have for you, Doctor.

21 THE WITNESS: Okay. Anybody  
22 else?

23 MS. MASSEY: I don't have  
24 any.

25

## EXAMINATION OF HARRY J. BONNELL, M.D.

BY MR. WALTERS:

Q Doctor, I'm Steve Walters. I represent the anesthesiologist. Just have a few questions.

In the beginning of this deposition *you* listed the things that you reviewed since writing your report of June 25th of this year. And you listed the reports of three doctors. I take it that you have not reviewed the report of a pathologist by the name of Hoffman?

A Hoffman? No, I have not read a report by Hoffman.

Q Dr. Hoffman, first name Robert, is an M.D./Ph.D. at University Hospitals of Cleveland. And he's director of autopsy pathology. He authored a report of June 27th of '97 that I believe has been provided to everybody in this case. You haven't seen that?

A That's correct, I have not.

Q At some point in the latter part of your questioning by Mr. Lansdowne you were asked questions about your opinion relative to, and Mr. Lansdowne said hemoperitoneum, immediate cause of death; laceration of liver, intervening cause of death; attempted cardiopulmonary

1           resuscitation, intervening cause of death. Do  
2           you recall that series of questions?

3       A       Yes, I do.

4       Q       That was from the report of Dr. Hoffman he was  
5           questioning you about, and I mention that for  
6           your benefit.

7                   In Dr. Hoffmann's report he concludes that  
8           a circulatory collapse occurred in this case,  
9           most probably from sudden bacterial sepsis. If  
10          I understand correctly, you are familiar with  
11          that, that term?

12      A       That's correct.

13      Q       I know I have you at a disadvantage because for  
14           some reason you were not provided the report of  
15           Dr. Hoffman. I don't mean to imply that  
16           Dr. Hoffman anywhere in his report considers and  
17           rejects a thrombotic embolus. So I'm trying to  
18           give you some sense of the report without your  
19           having the benefit of looking at it. Bear with  
20           me.

21                   Can a sudden bacterial sepsis produce  
22           cardiac arrest?

23      A       It's possible, yes.

24      Q       In this case, and I think we've agreed, it was  
25           somewhere around 10:28, I'll use that term for

1           want of another time, this young man,  
2           Mr. Porter, had a cardiac arrest. Correct?

3       A       Yes.

4       Q       Now, that's the first cardiac arrest that **is**  
5           noted in the record, is that correct?

6       A       Yes,

7       Q       Is every cardiac arrest reflective of a sudden  
8           drop in blood pressure?

9       A       Is it reflective of it? You mean causative of  
10          it? I don't understand what you mean by  
11          "reflective."

12      Q       Let me see if I can rephrase it.

13                You spoke earlier in response to questions  
14          about a sudden drop in blood pressure.

15      A       Right.

16      Q       And my question to you is, when a person has a  
17          cardiac arrest, is that synonymous with a sudden  
18          drop in blood pressure?

19      A       No. If you throw a pulmonary embolism, for  
20          example, you will have a sudden drop in blood  
21          pressure, but your heart has not yet arrested,  
22          it will still try to beat. You can get a sudden  
23          drop in blood pressure in different types of  
24          shock and your heart will continue to beat.  
25          Actually, will try to make up for it and will

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usually increased

Somebody is talking to me on this Fw and I  
don't know who it is Hold on a second

MR. WALTERS: We're on mute.

(Short Break)

A I mean you can have sudden drops in blood  
pressure for some other reason than a cardiac  
arrest.

Q Let's take the repairs Can you have a cardiac  
arrest in which there is not a sudden drop in  
blood pressure?

A I -- the exception to that, I think, is where  
you may have a progressive slow drop in blood  
pressure followed by cardiac arrest But if you  
have a cardiac arrest and the heart's not  
pumping anymore, I don't see how you can keep a  
blood pressure.

Q In this particular case -- I'm not going to try  
to go back over old ground -- you listened through  
findings which together with the clinical  
picture lead you to conclude that there was a  
thrombotic embolus as the cause of r. Portals  
cardiac arrest, correct?

A Right.

Q You testified also that you found no evidence of

1           sepsis in this case. And I'm trying to  
2           understand whether that response is an  
3           indication of a definition of sepsis that  
4           perhaps is different from the --

5       A    My definition of sepsis is the equivalent, is  
6           that there are clinical results or  
7           patient-measurable, observable results due to a  
8           bacteremia. So that a sepsis is not only just  
9           bacteria in the blood, but it's an overwhelming  
10          infection in the blood and the person goes on  
11          and develops hematologies such as shock, changes  
12          in pulse rate, things like that.

13               A lot of people use the term "sepsis" just  
14               simply to mean that there's bacteria in the  
15               bloodstream. And I would use the term  
16               bacteremia. But if somebody is using the term  
17               "sepsis" interchangeably with "bacteremia," then  
18               this person could have had sepsis.

19       Q    Okay.

20               In terms of the expected result of a  
21               thrombotic embolus sufficient enough to cause a  
22               precipitous drop in blood pressure, do I  
23               understand correctly that you would not expect  
24               to see a spontaneous regaining of previous blood  
25               pressure values in a patient that had such an

1           embolism?

2       A       Not unless the embolism somehow, you know,  
3               dislodges itself and allows blood to get through  
4               the lungs enough to generate a pressure. I  
5               think we were talking about saddle emboli and if  
6               it was a saddle embolus, would you expect a  
7               return of blood pressure. I think only if there  
8               was somehow movement of the embolus or the  
9               embolus maybe going over to take out only one  
10              side of the lung so you can get some pressure  
11              out the other side of the lung. But I would not  
12              expect a spontaneous return to a blood pressure  
13              that's even higher.

14      Q       Dr. Bonnell, a frequent source of thrombotic  
15               emboli is a thrombus in the deep veins of the  
16               legs, is that correct?

17      A       That's correct.

18      Q       Am I also correct that that can occur in a  
19               patient who is not undergoing any procedure but  
20               is simply lying in bed?

21      A       Yes, that's true. I think I mentioned that to  
22               some extent, that not only should the right leg  
23               or the injured leg have been looked at, but so  
24               should the other one if he's on long bed rest.

25               There are other risk factors for

1           developing blood clots besides trauma. These  
2           are both inborn problems developing with your  
3           coagulation process as well as obesity, bed  
4           rest, prolonged sitting, things like that,  
5           varicose veins. They're all known to place  
6           people at increased risk for clots even without  
7           trauma.

8       Q       Do we have any indication in this case that the  
9               surgeon at the time of the second debridement  
10              was performing procedures on any of the deep  
11              veins of the leg?

12      A       **All** I have is an -- is it appears he's debriding  
13               the tissue. Does not show any -- it's not  
14               specific enough for me to know what blood  
15               vessels he's working around. I don't know how  
16               deep he's going.

17      Q       And I gather from what you said earlier that in  
18               terms of a thrombus originating in the lower  
19               extremities, whether or not the surgeon is  
20               working in or around the veins of the lower  
21               extremity may not even matter. The thrombus may  
22               arise and migrate and become an embolism in the  
23               lungs simply by reason of the inactivity. Is  
24               that --

25      A       It may come as a result of the inactivity.



Usually they break loose as a result of something, and I've seen it like people getting out of their beds to get in a wheelchair to be discharged home and they don't make it or they go into the bathroom, have a bowel movement and change positions and stretch themselves, and the ambolus comes loose. They're being transferred to or from a bed or wheelchair and it breaks loose.

And then there are those, certainly we don't know what the circumstances are. When they break loose we'd hope the ones where you'd see it some or something like that.

Q And in this case we do have a situation that involves one of those frequently found precipitating factors, namely, the transfer of the patient upon completion of the surgery to the bed.

A That's correct.

MR. WALTERS: I don't have anything else.

EXAMINATION OF HARRY J. BONNELL, M.D.

BY MR. LANSLOWNE:

Q Doctor, it's Dennis Lansdowne again.

Just wanted to follow up on this air

1 embolism that you had mentioned before And I  
 2 know you can't really give an opinion that he  
 3 would have an air embolism but assuming that he  
 4 would do you have any idea where an air embolism  
 5 would come from under these circumstances?

6 A Under these circumstances the only reasonable  
 7 source would be from the operative site If  
 8 things were being exposed and things like that  
 9 you may have air entering there Usually it  
 10 enters more through the larger or the greater  
 11 blood vessels than that But that would be the  
 12 only source that would be most likely

13 Q There's always a possibility of it  
 14 entering through an intravenous line but  
 15 there's nothing that I see that would suggest  
 16 that as the route

17 Q Okay So the two possibilities would be an  
 18 intravenous line and something at the operative  
 19 site?

20 A Yes And for probability-wise I would say the  
 21 operative site in this case But I certainly  
 22 have to you know consider the other  
 23 possibility. But it would only be a  
 24 possibility

25 Q Well, given a debriement what would cause air

1 to be forced into the vessels?

2 A In general, the pressure in the venous system,  
3 and particularly the great veins, is more toward  
4 a negative mode. In other words, the blood --  
5 the heart basically sucks blood into it on the  
6 right side. It pulls the venous blood back in.  
7 And because of that, because of its negative  
8 pressure, you can get blood getting into veins.

9 Q You mean air getting --

10 A Air getting into the veins. I'm sorry.

11 Again, it's most likely with larger veins  
12 like those entrances to the chest and neck. But  
13 it's always a possibility if that area is being  
14 manipulated.

15 Q Well, wouldn't you say that that's really a rare  
16 circumstance, given this kind of operative  
17 procedure, to have an air embolism?

18 A Yes, it would be. I would certainly not -- I  
19 would not bet much money on it. Probably the  
20 odds are probably better than the lottery, but I  
21 would not bet a lot of money on it.

22 Q But pretty close to the lottery?

23 A Well, it depends upon whose lottery you're  
24 talking about. It's a possibility. And I think  
25 it's a thought that needs to be entertained and

1           it certainly is something that should have been  
2           ruled out.

3       Q       Right. But in the absence of using some kind of  
4           forced air, you don't usually see an air  
5           embolism from a debridement of the leg, correct?

6       A       Right. It would be most **rare**. It would be most  
7           surprising. I probably would write it up if I  
8           had time.

9       Q       When you were doing this case, I assume you  
10          approached it as you would approach any autopsy  
11          within your office except that you don't have  
12          the body.

13      A       Well, you know, I approached it from reviewing  
14          it. In a particular case like this, it's a  
15          little bit easier than most autopsies. We  
16          usually don't have as much history or medical  
17          records when we do autopsies here. It's just  
18          kind of the nature of the beast. A lot of times  
19          we don't have the information in the records or  
20          as much as we would like.

21                   But yes, I read the records, got the  
22          history, read the autopsy report, was not  
23          thrilled with what I read, and then looked at  
24          the microscopic slides, looked at the toxicology  
25          report, and saw more questions or problems

1           there, and then wrote my opinions down and the  
2           notes as I went through it.

3       Q       I assume that from a mind-set standard, you  
4           looked at it with no preconceived notions of  
5           what the cause of death might be.

6       A       That's correct. I just looked at it and then I  
7           gave my opinion. You know, just like any other  
8           case. And, you know, sometimes I call the  
9           attorney back and I say settle for whatever you  
10          can get. And the other times I call back and  
11          will tell the attorney, you know, they screwed  
12          up here. You should sue them for everything you  
13          can get.

14               Other times I call them back and say it's  
15          not here and there's major problems in the  
16          autopsy reports. I just did that for a case in  
17          Tucson. I said the decedent in this case does  
18          not have pneumonia, this is a fib. And either  
19          the plaintiff's attorney dropped it or he went  
20          to find another expert.

21       Q       Right. But --

22       A       I do them open-minded because I just tell them  
23           what I see and what my opinion is. And then  
24           they can do whatever they want with it.

25       Q       Right. But in this particular case, you going

1           into it, you considered a number of  
2           possibilities and then excluded them, I assume.

3       A       Yes. I just -- you know, I think that is the  
4           way your mind works all the time, is: Why did  
5           this guy die? And what documentation is there  
6           for this? And what documentation is there for  
7           that? What are the facts and what do they  
8           substantiate? And, you know, what should have  
9           been looked for and wasn't looked for?

10                    You know, this is something I do, not  
11           only, you know, in cases like this, but when I'm  
12           going over, reviewing cases, with residents or  
13           fellows or students rotating through our office.  
14           We do it at the autopsy table. "You need to  
15           look for this. Don't forget that." When I get  
16           a report back, "You forgot to put in that you  
17           looked for this and it wasn't there." Because  
18           there are pertinent negatives as well as .  
19           pertinent positives.

20       Q       And one of the things that ultimately you have  
21           considered, I assume, was sepsis?

22       A       If I would have thought of sepsis, I would have  
23           looked for vegetations on the heart valves.  
24           They say they're normal. And I, you know, would  
25           have looked for sepsis as a possibility, but

1           sepsis usually doesn't give a dilated right  
2           ventricle. That's why it doesn't fit in my  
3           opinion.

4       Q       And he was being treated with antibiotics?

5       A       That's true. Not that everything was covered.  
6           I'm sure that there was all kinds of stuff in  
7           that water that may not have been covered by  
8           antibiotics. I don't know. And some organisms,  
9           particularly the anaerobic organisms, can  
10          progress even in the face of antibiotics.

11      Q       When you were talking about definitions, sudden  
12          bacterial sepsis has a particular accepted  
13          definition, doesn't it?

14      A       My understanding of it is what I gave you. I  
15          don't know if there's something in the  
16          dictionary or in a microbiology text. That's my  
17          understanding of it as how I've seen it used  
18          before.

19                   MR. LANSLOWNE:        Okay. Thank  
20          you.

21                   THE WITNESS:         You're welcome.

22                   MR. LANSLOWNE:        Anyone else?

23                   MR. TABER:            Doctor, we'd  
24          like you to read it and not waive signature, if  
25          that's okay with you.

1 THE WITNESS: That's fine with  
2 me.

3 MR. TABER: Can we get a  
4 waiver of the seven-day requirement then?

5 MR. LANSDOWNE: Sure.

6 MR. TABER: Thank you.

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1 THE STATE OF OHIO, ) SS: CERTIFICATE  
2 COUNTY OF CUYAHOGA. )

3 I, Judith Ann Volak, a Notary Public within and  
4 for the State of Ohio, duly commissioned and qualified,  
5 do hereby certify that the within-named witness,  
6 Harry J. Bonnell, M.D., was first duly sworn to testify  
7 the truth, the whole truth and nothing but the  
8 truth in the cause aforesaid; that the testimony then  
9 given by him was by me reduced to stenotypy in the  
10 presence of said witness, afterwards transcribed on a  
11 computer/printer, and that the foregoing is a true and  
12 correct transcript of the testimony so given by him, as  
13 aforesaid.

14 I do further certify that this deposition  
15 was taken at the time and place in the foregoing  
16 caption specified.

17 I do further certify that I am not a  
18 relative, counsel or attorney of either party, or  
19 otherwise interested in the event of this action.

20 IN WITNESS WHEREOF, I have hereunto set my hand  
21 and affixed my seal of office at Cleveland, Ohio, on  
22 this 19<sup>th</sup> day of December 1997.

23 Judith Ann Volak  
24 Judith Ann Volak, Notary Public  
25 within and for the State of Ohio  
My Commission expires November 30, 2000.

1 THE STATE OF \_\_\_\_\_ )  
2 COUNTY OF \_\_\_\_\_ ) SS :

3 Before me, a Notary Public in and for said state  
4 and county, personally appeared the above-named  
5 Harry J. Bonnell, M.D., who acknowledged that he  
6 did sign the foregoing transcript and that the same is  
7 a true and correct transcript of the testimony so  
8 given.

9 IN TESTIMONY WHEREOF, I have hereunto affixed my  
10 name and official seal at \_\_\_\_\_,  
11 this \_\_\_\_\_ day of \_\_\_\_\_, 1997.

12  
13 \_\_\_\_\_  
Harry J. Bonnell, M.D.

14 \_\_\_\_\_  
15 Notary Public

16 My Commission expires: \_\_\_\_\_  
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