

1 The State of Ohio, )  
County of Cuyahoga. ) SS:  
2

3 IN THE COURT OF COMMON PLEAS

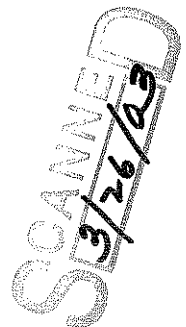
4 CHRISTOPHER S. LONG, ETC., )  
5 Plaintiffs, )  
6 -v- ) Case No. 321518  
7 CLEVELAND CLINIC FOUNDATION, )  
8 Defendant. )  
9

10 DEPOSITION OF CHARLES J. HEARN, D.O.

11 Wednesday, February 10, 1999  
12  
13

14 Deposition of CHARLES J. HEARN, D.O., called for  
15 examination by the Plaintiffs under the Ohio Rules of  
16 Civil Procedure, taken before me, Robert A. Cangemi, a  
17 Notary Public in and for the State of Ohio, at the  
18 Cleveland Clinic Foundation, Cleveland, Ohio, commencing  
19 at 9:30 p.m., the day and date set forth.  
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25 COMPUTER-AIDED TRANSCRIPTION





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APPEARANCES:

On Behalf of the Plaintiffs:

JEANNE M. TOSTI, ESQUIRE  
Becker & Mishkind  
660 Skylight Office Tower  
Cleveland, Ohio 44113

On Behalf of the Defendant:

JOHN V. JACKSON, III ESQUIRE  
INGRID KINKAPF-ZAJAC, ESQUIRE  
Roetzel & Andress  
1375 E. 9th Street  
Cleveland, Ohio 44114

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1                   CHARLES J. HEARN, D.O.  
2   called by the Plaintiffs for examination under the  
3   Ohio Rules of Civil Procedure, after having been first  
4   duly sworn, as hereinafter certified, was examined and  
5   testified as follows:

6                                 - - - - -  
7                                 EXAMINATION  
8                                 - - - - -

9   BY MS. TOSTI:  
10   Q       Doctor, would you please state your name for  
11   us, your complete name?  
12   A       Charges J. Hearn, D.O.  
13   Q       And your home address?  
14   A       22827 Lake Road, Number 2, Rocky River, Ohio  
15   44116.  
16   Q       Is that an apartment?  
17   A       It is a condo.  
18   Q       And in August of 1996, was your business address  
19   here at the Cleveland Clinic?  
20   A       Yes, it was.  
21   Q       And your current business address, is that the  
22   Cleveland Clinic?  
23   A       Yes, it is.  
24   Q       And in August of 1996 you were an employee of the  
25   Cleveland Clinic Foundation?

1 A Yes.

2 Q Have you ever had your deposition taken  
3 before?

4 A Yes.

5 Q How many times?

6 A Once.

7 Q And why was your deposition being taken? By that,  
8 I mean, was it as a treating physician, a defendant, an  
9 expert?

10 A Defendant.

11 MR. JACKSON: No.

12 You were a treating physician.

13 A Treating physician.

14 Q Was it a case in which the Cleveland Clinic was a  
15 defendant?

16 A Yes.

17 Q What was the allegation of negligence in that  
18 case?

19 MR. JACKSON: Objection, but  
20 answer, if you can.

21 A I believe it was a surgical related  
22 death.

23 Q Do you know what type of surgery?

24 A An aortic valve surgery.

25 Q Do you know the name of the patient?

1 A Michael Broadwater.

2 Q And how was that case resolved? In other words,  
3 did it go to trial?

4 Was there a settlement?

5 MR. JACKSON: Do you  
6 know?

7 Q Was it dismissed?

8 A I do not know the case at this point in  
9 time.

10 Q I want to review a few things as far as depositions  
11 go. I am sure Mr. Jackson talked to you.

12 This is a question and answer session that's under  
13 oath, and it is important that you understand the  
14 questions that I ask you.

15 If you don't understand them, if I have asked a  
16 confusing question, tell me, and I will be happy to  
17 rephrase it or repeat it.

18 Otherwise, I am going to assume that you understand  
19 the question that I have asked you, that your able to  
20 answer it.

21 It is important that you give all of your answers  
22 verbally, because the Court Reporter can't take down head  
23 nodes or hand motions.

24 If at any point you would like to refer to medical  
25 records -- I am sure Mr. Jackson has provided you with a

1 copy -- feel free to do so.

2 At some point he may choose to enter an  
3 objection. You are still required to answer my question,  
4 unless he instructs you not to, okay?

5 A I understand.

6 Q Have you ever been named as a defendant in a  
7 medical negligence case?

8 A No.

9 Q Have you ever had your hospital privileges called  
10 into question, suspended or revoked?

11 MR. JACKSON: Objection. Go  
12 ahead.

13 A No.

14 Q And in August of 1996 you were lincensed to  
15 practice medicine in the State of Ohio, is that  
16 correct?

17 A That is correct.

18 Q And were you licensed in any other states at that  
19 time?

20 A No.

21 Q And are you currently licensed in any other  
22 states?

23 A No.

24 Q Has your medical license in Ohio ever been  
25 suspended, revoked, or called in question?

1 MR. JACKSON: Objection. Go  
2 ahead, answer.

3 A No.

4 Q Have you ever acted as an expert in a medical/legal  
5 proceeding?

6 A No.

7 Q Have you ever given testimony, other than the one  
8 deposition that you previously mentioned, in a  
9 medical/legal matter?

10 A No.

11 MS. TOSTI: Would you mark  
12 this as Plaintiffs' Exhibit No. 1?

13 - - - - -

14 (Plaintiffs' Exhibit No. 1  
15 was marked for identification.)

16 - - - - -

17 BY MS. TOSTI:

18 Q Defense counsel provided me just now with a copy of  
19 your curriculum vitae.

20 I would like you to just take a look at it and tell  
21 me if there is any additions or corrections that you would  
22 like to make to that to have it up-to-date.

23 A It is correct.

24 Q Do you have any additional publications that are  
25 currently in progress?



1 A I have one, possibly two, that have been  
2 submitted.

3 Q What is the subject matter of those?

4 A Transesophageal echocardiography.

5 Q Doctor, you are currently Board certified in  
6 anesthesiology, is that correct?

7 A That is correct.

8 Q Did you pass that on your first try?

9 A Yes, I did.

10 Q There is one manuscript that you have listed here  
11 that is entitled minimally invasive aortic valve surgery,  
12 anesthetic considerations.

13 Is that a publication that deals with the specifics  
14 of minimally invasive aortic valve surgery?

15 A That publication deals with the specifics regarding  
16 the anesthetic management of patients undergoing that  
17 procedure.

18 Q Have you ever taught or given a lecture or a formal  
19 presentation on the subject matter of bleeding  
20 complications with cardiothoracic surgery?

21 A I do not have a lecture of that nature that is  
22 prepared.

23 Q Tell me what you reviewed for this  
24 deposition.

25 A I reviewed the chart, as well as all of the records

1 related to the chart for this case.

2 Q And in regards to the medical chart, did you review  
3 all of it or certain portions of it?

4 A I reviewed the preoperative anesthetic assessment  
5 form, as well as the anesthetic record for case, which I  
6 participated in.

7 Q Would that have been James Long's first surgery in  
8 which the aortic valve was replaced?

9 A That is correct.

10 Q Have you reviewed any textbooks or articles in  
11 preparation for this deposition?

12 A No.

13 Q Have you spoken to any physicians in preparation  
14 for this deposition?

15 A No.

16 Q And since this case was filed, have you discussed  
17 this case with any physicians?

18 A No.

19 Q Other than with counsel, have you discussed this  
20 case with anyone else?

21 A No.

22 Q Do you have any personal notes or a personal file  
23 on this case?

24 A No.

25 Q And have you ever generated any such

1 notes?

2 A No.

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

6 A There is no one specific publication that I am  
7 aware of.

8 Q Prior to the time of James Long's aortic valve  
9 replacement, which was August 20th of 1996, had you ever  
10 provided anesthesia on an aortic valve replacement that  
11 was done via minimally invasive procedure?

12 A Yes.

13 Q How many times, approximately?

14 A I can't tell you the exact number.

15 Q Do you recall when you first started doing  
16 anesthesia for minimally invasive procedures?

17 A I couldn't tell you the specifics of that. I would  
18 possibly guess early in 1996.

19 Although, I can't be one hundred percent  
20 sure.

21 Q Do you know how many minimally invasive aortic  
22 valve replacements have been done at the Cleveland Clinic,  
23 other than James Long's case?

24 A I don't know the specific number.

25 Q Do you know approximately?

1 A I could guess at possibly thirty.

2 MR. JACKSON: Don't guess. If  
3 you have a good estimate, go ahead, that's  
4 okay.

5 A For publications which I was the primary author at  
6 the time of the writing was thirty-some <sup>patients</sup> ~~papers~~. I don't  
7 remember the specific number.

8 Q Now, Doctor, do you make adjustments in the  
9 anesthesia induction of a patient or management of a  
10 patient when they are undergoing minimally invasive  
11 procedures, as opposed to standard median sternotomy type  
12 procedures? Is an adjustment made in the anesthesia  
13 technique?

14 A I am not sure what you <sup>mean</sup> ~~mena~~ by adjustment.

15 Q Is there a difference in the way that the  
16 anesthesia is provided to a patient because of the  
17 technique that is being used surgically?

18 A There's no specific change in the medications that  
19 are chosen. That's a choice made by the attending  
20 anesthesiologist, if you will.

21 The monitoring is the same. And the basic  
22 anesthesia is unchanged.

23 Q Now, in regards to the article that  
24 you have on your CV, minimally invasive aortic  
25 surgery anesthetics, can you give me a highlight as to

1 what the anesthetic considerations are that appear in that  
2 article?

3 A I am not sure. Do you want me to repeat the whole  
4 article to you?

5 Q Just the basic areas that are referred to in that  
6 article.

7 MR. JACKSON: Can you do  
8 that?

9 A I can go through the whole article, if you like. I  
10 don't know that I can give you highlights.

11 Basically the anesthetic considerations remain the  
12 same for a patient undergoing median sternotomies, as do  
13 for the patient undergoing a minimally invasive  
14 procedure.

15 The chances are that the anesthesiologist cannot  
16 see the patient's heart beating because of the small  
17 incision.

18 ~~Just~~ because the incision is small does not mean  
19 that the monitoring or the ability to resuscitate ~~that is~~  
20 changes, ordinarily, and that the same vigilance, if not  
21 more, is required for these type of procedures <sup>than</sup> /with  
22 conventional median sternotomies; did that answer your  
23 question?

24 Q Did you do a preoperative anesthesia evaluation of  
25 James Long?

1 A Yes.

2 Q When did you do the preop anesthesia  
3 evaluation?

4 A That was performed in the operating room.

5 Q Just prior to the surgery then on the  
6 20th?

7 A That is correct.

8 Q Is that generally when the preoperative  
9 evaluations are done for these types of patients, just  
10 prior to the surgery in the operating room; is that  
11 standard?

12 A That depends on the patient.

13 Q And when you say depends on the patient, what does  
14 it depend on?

15 A There are multiple factors that  
16 determine when an anesthetic assessment is performed on  
17 any patient in this institution.

18 Some of the factors that may change when that  
19 assessment is performed would be factors such as whether  
20 or not the patient is admitted, and if that was the case,  
21 it may be performed the night before the patient comes in  
22 on an outpatient basis.

23 The assessment may be performed up to a couple of  
24 weeks in advance of an operation, or it could be performed  
25 in the operating room, as well.

1 Q In James Long's case, what was the reason his was  
2 done in the operating room?

3 A The assessment done in the operating room is done  
4 by staff anesthesiologist.

5 The assessments done out of the operating  
6 room are typically done by an anesthesia resident or  
7 fellow.

8 Q As to the anesthesia evaluation that you did, did  
9 you write down your assessment anywhere?

10 A The preoperative anesthetic assessment is in the  
11 chart, written in the chart.

12 Q Could you show me your assessment; where it  
13 is?

14 A It is right here.

15 Q And did James Long present any problems  
16 in regards to anesthesia management for his valve  
17 surgery?

18 A The problem that we encountered, which is  
19 documented in the chart, is a dental injury during the  
20 intubation.

21 Q But in regards to the assessment, was there  
22 anything in the assessment that caused you to change, or  
23 that you had to give extra consideration to, that was out  
24 of the ordinary in regards to what you would do for  
25 anesthesia induction for this patient?

1 A No.

2 Q When is the first time that you came in contact  
3 with James Long?

4 A The day of the operation.

5 Q And, Doctor, were you the anesthesiologist that  
6 provided anesthesia to James Long during his aortic valve  
7 surgery?

8 A The initial surgery, yes.

9 Q And were you in the room the whole time during  
10 James Long's surgery?

11 A I was not in the room the whole time, as I  
12 frequently have multiple rooms to supervise.

13 Q Can you tell me what portion of the surgery you  
14 were in the room for?

15 A I was present for the placement of all of the  
16 monitors and lines of the patient, as well as the  
17 induction of the patient.

18 I also performed the transesophageal echo  
19 examination, and would have been present during the  
20 separation of the bypass, as well as transportation to  
21 intensive care.

22 Q Doctor, do you go in and out of the room --

23 A Yes.

24 Q -- when you are supervising?

25 A Yes.



1 Q From what you told me, you were there at least at  
2 the beginning. You were also there at the end, when they  
3 removed him from coronary bypass; is that what I  
4 understood you to say?

5 A I was present at the separation from  
6 cardiopulmonary bypass.

7 Q How many rooms are you supervising?

8 A Two.

9 Q And in this particular instance, when you were not  
10 in the room, who was responsible for the anesthesia  
11 management?

12 A Either an anesthesia fellow or a nurse  
13 anesthetist.

14 Q In this case, who was that?

15 A In this case the nurse anesthetist  
16 would have been Gates, and the fellow would have been  
17 Gupta.

18 Q What is Dr. Gupta's first name?

19 A I don't recall.

20 Q Is Dr. Gupta still with the Cleveland Clinic  
21 Foundation?

22 A No.

23 Q Did a Dr. Williams assist with the anesthesia at  
24 any time?

25 A That name is unfamiliar to me.

1 Q What about Dr. Koch?

2 A Dr. Koch did not participate in the  
3 anesthetic management of Mr. Long during his initial  
4 operation.

5 Q Did James Long's size present any problems in doing  
6 his surgery by minimally invasive technique, that you are  
7 aware of?

8 A I am not an expert in surgery, and it would be  
9 inappropriate for me to comment on the surgical technique  
10 in patients.

11 However, we did have a problem with his intubation,  
12 which was related to his size.

13 Q And what problem, if you can just describe  
14 that in a little more detail for me; you mentioned that  
15 there was a problem in which I believe a cap or something  
16 came off?

17 A Yes.

18 Q What was the problem that you had in doing  
19 intubation?

20 A The difficulty was visualizing the glottis for the  
21 placement of an endotracheal tube.

22 Q And was that related in anyway to his body  
23 size?

24 A That was related to his body anatomy.

25 Q What was the problem, Doctor?

1 A The problem in intubating the patient was to  
2 visualize his glottis to place the endotracheal tube, and  
3 to displace the tongue out of the way.

4 And during that process, his bridge was damaged by  
5 a metal instrument.

6 Q But in regard to visualizing the glottis, were you  
7 having difficulty hyperextending his neck or moving the  
8 tongue out of the way?

9 What was the difficulty?

10 A I don't recall specifically.

11 Q Are there any increased risks for bleeding  
12 complications associated with the type of homograft mini-  
13 root procedure that was done on James Long, as opposed to  
14 if it was done by a median sternotomy procedure?

15 A I am not sure what you are asking me.

16 Q I am asking you if there is an increased  
17 risk for bleeding complications when the procedure  
18 is done via minimally invasive, as opposed to median  
19 sternotomy?

20 A I am unaware that the risks are significantly  
21 different.

22 Q Do you have an independent recollection of James  
23 Long as you sit here, beyond what you see here, in the  
24 medical records that you have reviewed?

25 A I remember this individual from talking with him

1 preoperatively.

2 Q Now, Doctor, in August of 1996, was it standard  
3 practice to do a transesophageal echo on a patient before  
4 and after cardiopulmonary bypass?

5 A What are you referring to, a standard  
6 practice?

7 Q All patients that underwent this type of  
8 procedure would have a transesophageal echo done before  
9 and a transesophageal echo done after; is that  
10 standard?

11 A It is very common that patients that present for  
12 valve surgery obtain an echo preoperatively,  
13 intra-operatively, as well as postoperatively, in this  
14 institution.

15 Q In August of 1996 were most patients having that  
16 done?

17 A I would say that would be an accurate  
18 assumption.

19 Q And when they are done before bypass  
20 and after bypass, who is responsible for doing the  
21 echos?

22 A That varies between anesthesia personnel, if they  
23 are in the room, that are capable of doing it, or the  
24 cardiologist, if he is immediately available.

25 Q And why are those done before bypass and after

1 bypass?

2 A They can be done for a multitude of  
3 reasons, to assess ventricular function; to confirm the  
4 diagnosis made preoperative of the valve or the coronary  
5 lesion, or for sizing or measurement purposes; to assess  
6 ventricular function and valvular function post-bypass,  
7 those are some of the reasons.

8 Q And in James Long's case why was it  
9 done?

10 A Mr. Long would have had an echo placed to size the  
11 homograft, in addition to monitor his ventricular  
12 function, as it was not normal preoperatively.

13 Q Now, in regard to the anesthesia sheet,  
14 is there a particular point in time when these  
15 transesophageal echos are done, that is recorded on the  
16 anesthesia sheet?

17 A No.

18 Q Is there a particular time when it is usually done  
19 in regards to the procedure?

20 A The transesophageal echo probe is placed  
21 after the intubation of the patient and suctioning  
22 of the stomach by NG tube; between the time of the  
23 placement of the probe and the placement on bypass, the  
24 times vary.

25 Q And the one that is done after removal

1 from bypass, is it done after, immediately after  
2 the --

3 A It is usually done prior to the separation from  
4 bypass and after separation of the bypass.

5 Q And you were the individual that did the  
6 transesophageal on James Long prior to him being placed on  
7 cardiopulmonary bypass, is that correct?

8 A Yes. I was the staff that performed the  
9 intraoperative TE before the cardiopulmonary  
10 bypass.

11 Q On that particular transesophageal, what were your  
12 findings for Mr. Long?

13 A The findings of the echo demonstrated moderate  
14 dysfunction of the left ventricle, moderate left  
15 ventricular dysfunction, and severe bicuspid and aortic  
16 valve stenosis.

17 Q And there was a transesophageal that was  
18 done after the patient or at the time the patient was  
19 coming off of bypass; is there any difference in the  
20 findings on that?

21 A Yes, there is a difference.

22 Now there is a homograft in place. The left  
23 ventricular function is normal by this report.

24 Q Now, I believe on the sheet that you are looking  
25 at, Doctor, Dr. Koch's name is listed.

1 A Yes.

2 Q Dr. Koch was in the surgical suite at the time to  
3 do that transesophageal echo?

4 A That is what is demonstrated by this  
5 report.

6 Q Dr. Koch is also an anesthesiologist, is that  
7 correct?

8 A Yes.

9 Q Would Dr. Koch have had any responsibility for the  
10 anesthesia on this case, if she was doing that post  
11 cardiopulmonary bypass transesophageal echo?

12 A No.

13 Q She would just come into the room to assist with  
14 that, the echocardiogram, and be out?

15 A That would be correct.

16 Q Doctor, on the anesthesia record, if  
17 you can flip to that, in the upper left-hand corner  
18 there's a listing. It says ASA status; what does that  
19 refer to?

20 A ASA status is a classification of the patient. It  
21 relates to the extent of co-existing disease.

22 Q And James Long is listed as having an ASA status of  
23 four; what does that mean?

24 A An ASA status of four would identify a  
25 patient that had severe disease which limited his daily

1 activities.

2 Q And in regards to anesthesia management, listing  
3 him as a four, does that have any implications for your  
4 anesthesia management?

5 A No.

6 Q Now, near the bottom of the page, there is a  
7 notation that is written in there, surgery delay; what  
8 does that mean?

9 A That identifies a period of time that we were  
10 waiting for the staff surgeon.

11 Q And in this instance, how long was that?

12 A About one hour and fifteen minutes.

13 Q And were you waiting for Dr. Cosgrove at this point  
14 in time; is that who you were waiting for?

15 A He is the staff surgeon on this case.

16 Q Now, what time did James Long undergo anesthesia  
17 induction?

18 A Approximately 11:20.

19 Q And on the left-hand side of the page there's an  
20 area that says anesthesia time, with 9:20 written into it;  
21 what does that 9:20 refer to?

22 A That refers to the time the patient was met by the  
23 anesthesia team.

24 Q Now, on page 2 of the anesthesia record, in the  
25 center of the page there is an area where there is a



1 notation that says CPB, which I assume stands for  
2 cardiopulmonary bypass.

3 Do you see that area?

4 A Yes, I see that area.

5 Q And there's four boxes that have CPB written into  
6 it.

7 Then there is an area where there appears to be, I  
8 think some blood gases, then CPB in the box following  
9 it.

10 Why is there a change from the initials of  
11 cardiopulmonary bypass to blood gases, and then back to  
12 the cardiopulmonary bypass?

13 What does that mean?

14 A In this case the patient was separated from  
15 cardiopulmonary bypass, and shortly after returned to  
16 cardiopulmonary bypass.

17 Q He was taken off the bypass, then put back  
18 on?

19 A That is correct.

20 Q And in this particular instance why was he put back  
21 on cardiopulmonary bypass?

22 A I do not recall the specifics regarding that  
23 decision.

24 That was a surgical decision.

25 Q Did James Long have any complications during his

1 surgery?

2 A Are you referring to surgical complications or are  
3 you referring to anesthetic complications?

4 Q Any complications that you are aware of,  
5 Doctor.

6 A I am aware of a dental injury that Mr. Long  
7 sustained during his intubation.

8 Q Are you aware of any other complications?

9 A No.

10 Q Did you become aware at any time that James Long  
11 had a bleeding episode during surgery?

12 A No, I do not recall that information.

13 Q Dr. Cosgrove never mentioned that he was having  
14 bleeding in the aortic suture line at any time during the  
15 surgery?

16 MR. JACKSON: I am going to  
17 object. That's not what he said.

18 Go ahead, answer.

19 A I don't recall that specific conversation.

20 Q Doctor, there's an area on the anesthesia sheet  
21 that looks to be about 1600 hours; what is James Long's  
22 blood pressure recorded at that time?

23 A From the trend, it would be a mean  
24 arterial pressure of approximately 65 millimeters of  
25 mercury.

1 Q I am looking at a checkmark that appears to be on a  
2 line that is marked at 80; is that a systolic pressure of  
3 80 at about 1600 hours?

4 A That would be a systolic blood pressure.

5 Q Of 80?

6 A Yes.

7 Q 65 millimeters of mercury. What caused  
8 him to have his blood pressure go down to 80 at that point  
9 in time?

10 A It could be a multitude of factors.

11 Q Well, in this case, what do you think caused it to  
12 go down to 80?

13 A I can only speculate.

14 MR. JACKSON: Don't speculate.

15 If you can, give her a reasonable answer to  
16 that.

17 A I can tell you at that point in time we are running  
18 the three vasodialators, according to this record, which  
19 may be reponsible for that pressure.

20 Q And which three vasodialators are you  
21 running?

22 A Isoflurane, which is an anesthetic agent, sodium  
23 nitroprusside and nitroglycerin.

24 Q What was the third one?

25 A Nitroglycerin?

- 1 Q Now, what was the time that James Long came off of  
2 cardiopulmonary bypass for the last time?
- 3 A From the anesthetic record, it is 1540.
- 4 Q Now, Doctor, in that same time period, 1600 hours,  
5 it appears, if I am reading this correctly, that his pulse  
6 was up over one hundred or at one hundred; am I reading  
7 that correctly?
- 8 A That appears to be the pulse at 1600.
- 9 Q And what would cause his pulse to go to that level  
10 of one hundred?
- 11 A Multiple factors.
- 12 Q And in this case, what do you think the multiple  
13 factored were?
- 14 A Sodium nitroprusside can cause a reflex  
15 tachycardia. Low blood pressure can causes reflex  
16 tachycardia. Vasodililation, regardless of the mechanism,  
17 can cause tachycardia.
- 18 Q Do you have any knowledge of a suture breaking or a  
19 suture coming lose during this surgery that caused  
20 bleeding?
- 21 A No.
- 22 Q Why did Mr. Long receive Protamine?
- 23 A Protamine is a reversal for heparin.
- 24 Q Is that standard in patients that have this type of  
25 surgery?

1 A Most patients who receive large doses of heparin  
2 receive Protamine reversal.

3 Q And in this case, how much protamine did Mr. Long  
4 receive?

5 A A told of 500 milligrams.

6 Q And is that a fairly standard dose for patients  
7 that undergo this type of surgery, if they require  
8 Protamine?

9 A There is no standard dose.

10 Q Do most patients that require Protamine receive a  
11 dose of 500 milligrams?

12 A Protamine is a drug which  
13 is titrated. Each patient is different in the amount they  
14 receive.

15 Q Is that dosage that Mr. Long received within the  
16 range of what most patients receive, less or greater than  
17 what most patients receive?

18 A Related to Mr. Long's body weight, that dose is in  
19 the average range for most patients his size.

20 Q Did Dr. Gupta at anytime speak to  
21 you about the bleeding that occurred during James Long's  
22 surgery?

23 A No.

24 Q What was James Long's condition at the time that he  
25 left the surgical suite?

1 A Condition in regards to -- what are you asking  
2 me?

3 Q I am asking you what his condition was at the time  
4 that he left the surgical suite; was he having any  
5 problems, that you were aware of?

6 A When James Long left the surgical suite, he was  
7 still under the influence of the anesthesia and arrived in  
8 intensive care with stable hemodynamics.

9 Q Did you accompany him to the Intensive Care  
10 Unit?

11 A Yes, I did.

12 Q Did you provide any information to Dr. Yared in the  
13 Intensive Care Unit?

14 A I do not recall specifically speaking with Dr.  
15 Yared.

16 Q Did you give Dr. Yared or someone in the Intensive  
17 Care Unit a report?

18 A There is a report that's given between the  
19 anesthesia time, delivering the patient, and accepting  
20 intensive care personnel.

21 Q I asked if you gave a report to anyone in the  
22 Intensive Care Unit.

23 A I don't specifically recall that  
24 conversation.

25 Q Dr. Hrobat wrote an order to keep James Long's

1 pressure below one hundred systolic; do you know why that  
2 was necessary?

3 A I don't recall.

4 Q Is that a typical order for a patient that has had  
5 this type valve surgery?

6 A Each surgeon and each patient receives a different  
7 order from each surgeon. I cannot comment on the surgical  
8 management.

9 Q Dr. Yared wrote an admission note to the Intensive  
10 Care Unit in which he indicated that this patient had had  
11 some bleeding in the OR.

12 Did you transmit any information regarding bleeding  
13 that Mr. Long had in the OR to anyone in the Intensive  
14 Care Unit?

15 A I don't specifically recall that  
16 conversation.

17 Q Doctor, did you see James Long at any time after he  
18 went to the Intensive Care Unit?

19 A Yes, I did.

20 Q And when was that?

21 I am speaking after his first surgery.

22 MR. JACKSON: Do you have the  
23 whole chart here?

24 MS. TOSTI: Probably, but I  
25 have got my notations in it, so I am not going

1                   to give it to the Doctor.

2                   MR. JACKSON:                   If you can't find  
3                   it, tell her that, Doctor.

4   A            I can't find it from what I have.

5   Q            What are you looking for?

6   A            For the postanesthesia care note that I  
7   wrote.

8   Q            At what point in time did you see Mr.  
9   Long?

10   A           I saw Mr. Long after his operation. If I had the  
11   note in front of me, I could tell you the date and the  
12   time.

13   Q           Did you see him on the evening of the 20th, after  
14   his surgery?

15   A           I did not see him until at least the following  
16   morning.

17   Q           Did you participate in anyway in his second  
18   surgery?

19   A           No.

20   Q           So your anesthesia note would have been written  
21   after his second surgery, because I believe he returned to  
22   surgery that evening?

23   A           I cannot comment, because I do not have the record  
24   in front of me, or the chart.

25   Q           I don't recall seeing an anesthetic note, either,



1 but you believe it was the following day that you wrote  
2 the note?

3 A My typical practice is seeing the  
4 patient the day after their anesthetic. Whether or not  
5 that was after his return to the operating room, I cannot  
6 comment.

7 Q Did you have any conversations with Dr. Cosgrove or  
8 Dr. Mullbach regarding any bleeding complications that  
9 James Long had during surgery?

10 A I don't recall those conversations.

11 Q Did you have any conversations with either of them  
12 about the complications of bleeding that he had while he  
13 was in the Intensive Care Unit?

14 A I don't recall those conversations  
15 either.

16 Q If a patient has bleeding from an aortic suture  
17 line which has been reinforced during surgery, would there  
18 be a heightened concern for bleeding in the post-op period  
19 for the patient?

20 A That is a possibility.

21 Q And, Doctor, if James Long had bleeding  
22 complications during the surgery, such as bleeding from an  
23 aortic suture line, would you agree it is important that  
24 he be watched closely for post-op bleeding?

25 A That would be a concern, yes.

1 Q Do you review the postoperative orders for a  
2 patient when they are being transferred to the Intensive  
3 Care Unit?

4 Do you look over the surgical orders that are  
5 written?

6 A No.

7 Q Do you consult with the surgeons at all in regards  
8 to what those post-op orders are going to be?

9 A On occasion.

10 Q And in James Long's case, did you consult with Dr.  
11 Mullbach or Dr. Cosgrove in regards to his postoperative  
12 orders?

13 A I don't recall.

14 Q Do you know why he had an order written to keep his  
15 systolic blood pressure below 100?

16 MR. JACKSON: He answered that  
17 before.

18 Go ahead.

19 A I don't know the specifics about why that order was  
20 written.

21 Q Doctor, if a post-op aortic valve replacement  
22 patient develops cardiac tamponade, what changes would you  
23 make in the hemodynamic parameters?

24 A There could be many changes.

25 Q What characteristically occurs with cardiac

1 tamponade?

2 A Cardiac tamponade can manifest as low cardiac  
3 output syndrome.

4 It can manifest as hypotension.

5 It can manifest on the transesophageal echo, if  
6 that was performed postoperatively.

7 It can manifest as equalization of pressures within  
8 the chambers of the heart.

9 There are a multitude of signs that can  
10 occur.

11 Q Doctor, I would like you to look at the ICU flow  
12 sheet that's in the record, or where the hemodynamic  
13 parameters are listed.

14 I would like you to look at the initial  
15 parameters from when he was admitted to the Intensive Care  
16 Unit, and were any of those initial values on admission of  
17 any concern to you?

18 A There is nothing there that would identify an  
19 emergent cardiac process needing immediate  
20 intervention.

21 Q Are any of them causes for concern in regard to him  
22 needing close monitoring?

23 A Our patients are closely monitored in the Intensive  
24 Care Unit.

25 Q The values that you see there are all desirable

1 values for this patient?

2 MR. JACKSON: Object to your  
3 word "desirable." I don't know what that would  
4 mean.

5 BY MS. TOSTI:

6 Q That means whatever the doctor feels is appropriate  
7 for this patient are represented by the values that are  
8 there in that initial assessment.

9 The hemodynamic parameters, are those all within  
10 the range that was desirable for the patient, from the  
11 perspective of you as an anesthesiologist?

12 MR. JACKSON: Objection to  
13 desirable. If you are talking about acceptable,  
14 I think that is a different word.

15 Desirable may mean different things. Go  
16 ahead, answer, Doctor if you can.

17 A We are running drugs to keep the blood pressure low  
18 at this time, and I can't comment to the specifics about  
19 why that was done.

20 I don't recall.

21 These numbers are not numbers of alarm to  
22 me.

23 Q Were those all acceptable values for that  
24 patient?

25 A Acceptable? What is your definition of

1 acceptable?

2 Q Doctor, it is your definition. You were the  
3 treating physician that was the anesthesiologist coming  
4 off this case.

5 I am asking you, in a patient that has those  
6 initial hemodynamic parameters, are those acceptable to  
7 you?

8 A Yes, they are acceptable, yes. These are  
9 acceptable.

10 Q Is a transesophageal echo helpful in diagnosing  
11 cardiac tamponade in post-op cardiac patients?

12 A Yes.

13 Q Doctor, this patient's blood pressure at 1750 hours  
14 falls to, I believe, 75 over 46. His arterial pressure  
15 drops to 55.

16 The cardiac index is down to two, and the  
17 peripheral vascular resistance, I think, is 52.2; what  
18 would cause his parameters to drop like that?

19 MR. JACKSON: What time is that  
20 again, please?

21 Q 1750 hours.

22 A Those are signs of low cardiac output  
23 syndrome.

24 Q Could bleeding cause those changes?

25 A Bleeding is a possibility.

1 Q And other than low cardiac output  
2 syndrome, what would cause him to have a low cardiac  
3 output syndrome?

4 A Cardiac tamponade at this point is a  
5 possibility.

6 Q So those changes would be consistent with cardiac  
7 tamponade?

8 A Yes, they would be consistent.

9 Q Now, if a transesophageal echo had been  
10 done at that point in time, is it likely that cardiac  
11 tamponade, if it was there, would be seen on a  
12 transesophageal echo?

13 A It could be diagnosed by a transesophageal echo at  
14 that time.

15 Q Do you think that a transesophageal echo should  
16 have been done at that point in time for this  
17 patient?

18 MR. JACKSON: Objection. You  
19 can answer.

20 A A transesophageal echo at this time would be a  
21 reasonable intervention.

22 Q Now, James Long's blood pressure  
23 again falls at 1950 hour and continues to go down to be  
24 2030 hours; do you know what caused those changes in this  
25 patient?

1 A I was not present at that time.

2 Q Doctor, when James Long's blood pressure is falling  
3 around 1950 hours, and it is down in the 70's, and  
4 Levophed and Epinephrine are running, shouldn't that raise  
5 a suspicion that this patient was bleeding?

6 MR. JACKSON: Objection. Go  
7 ahead and answer, Doctor.

8 A I do not have enough information to tell from this  
9 that the patient is bleeding.

10 I can tell you that the interventions that were  
11 made and the resulting hemodynamics are worrisome that the  
12 bleeding is an ongoing process at this time, in addition  
13 to cardiac tamponade.

14 Q What would be the rationale for giving this patient  
15 the Levophed and Epinephrine? Why did he require the  
16 Epinephrine and Levophed?

17 A Epinephrine is a drug given to maintain  
18 the cardiac output, in addition to maintaining mean  
19 arterial pressure.

20 Q What is the expected amount of chest  
21 tube drainage per hour on patients undergoing this type of  
22 surgery?

23 A It varies widely.

24 Q Is drainage of 250 CC's in an hour  
25 concerning?

1 A All chest tube drainage is concerning; however,  
2 that number is somewhat high.

3 Q Why would James Long's chest tube drainage be  
4 increasing from 50 to 100 to 250 cc's per hour from 1730  
5 hours to 1930 hours?

6 MR. JACKSON: Objection. You  
7 can answer.

8 A Not being there at the bedside and having observed  
9 the chart, to base a comment on ongoing bleeding would be  
10 a recent causative factor.

11 Q Would that be a concern with that amount of chest  
12 tube drainage from 30 to 100 to 250?

13 A Yes, it would be a concern.

14 Q And if you were caring for this patient,  
15 would you have done a transesophageal echo at that point  
16 in time --

17 MR. JACKSON: I object.

18 Q -- to check for tamponade?

19 MR. JACKSON: Object. The  
20 doctor is not looking at the entire chart. He  
21 told you he wasn't there.

22 If you think you can answer in absence  
23 of having all of that information, go ahead,  
24 Doctor.

25 I don't think that's a fair question to



1           this Doctor, given what he has in front of him  
2           and what he has reviewed.

3                       Go ahead.

4 BY MS. TOSTI:

5 Q           You may answer, Doctor.

6 A           My responsibility to the patient are in the realm  
7 of resuscitation.

8           If I was present at this time, I would be  
9 resuscitating this patient. In addition, a  
10 transesophageal, to make a diagnosis; in addition to the  
11 presence of a surgeon at the bedside would be a  
12 reasonable multi-team approach.

13 Q          Doctor, looking over all of the hemodynamic values  
14 that are there, do you see any trends that would be  
15 consistent with a patient that's bleeding?

16 A          I see a period of time from 2010 to 2050 where  
17 blood pressures of 55 to 58 is charted.

18          This could coincide with ongoing bleeding at that  
19 time.

20 Q          What is your understanding as to what  
21 happened to James Long that caused him to go back to  
22 surgery?

23                       MR. JACKSON:                       State your  
24                       understanding, if you know, Doctor.

25 A          From reading the surgical note that was dictated,

1 it is my understanding that there was a problem with the  
2 distal anastomosis of the aortic valve homograft that was  
3 placed.

4 Q Now, Doctor, I am going to ask you a series of  
5 questions, and if you have no opinion on it, just tell me  
6 that.

7 Do you have an opinion as to at what  
8 point in time James Long suffered an ischemic injury to  
9 his brain?

10 A I can't comment.

11 Q Did you speak to the family of James Long at any  
12 time after his first surgery?

13 A I don't recall.

14 Q Do you recall speaking to the family at any time  
15 after either of his surgeries?

16 A I don't recall.

17 Q Do you have an opinion as to what caused James  
18 Long's postoperative bleeding?

19 A I have a dictated surgical note that states there  
20 was a problem with the distal anastomosis of aortic valve  
21 homograft.

22 Q Do you have an opinion as to what point  
23 in time if any James Long's neurological condition was  
24 irreversible?

25 A I can't comment.

1 Q Was James Long's case ever discussed in any type of  
2 staff meeting?

3 MR. JACKSON: Object to that.

4 If you are talking about a morbidity-mortality  
5 conference or something of that nature, to let  
6 him answer whether or not it was discussed at  
7 something like that would be the extent of the  
8 discussion.

9 You can answer that question, was it  
10 discussed at some type of conference like  
11 that?

12 A I don't recall specifically. Because of his dental  
13 injury, it would be marked as a morbidity-mortality  
14 conference for the department of anesthesia, and therefore  
15 the chart would be reviewed from that nature.

16 MR. JACKSON: That nature being  
17 the dental injury?

18 THE WITNESS: Yes.

19 BY MS. TOSTI:

20 Q Do you have opinion as to James Long's reasonable  
21 life expectancy, if he had not suffered hypotension and a  
22 severe ischemic brain injury?

23 A I can't comment.

24 Q Are you critical of anyone that rendered care to  
25 James Long?

1 A No.

2 MS. TOSTI: I have no further  
3 questions for you, Doctor.

4 I thank you for your time this  
5 morning.

6 MR. JACKSON: He will read  
7 it.

8 - - - - -  
9 (Deposition concluded.)

10 - - - - -

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16 \_\_\_\_\_  
Charles J. Hearn, D.O.

17 (Please sign and date.)

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1 The State of Ohio,           )  
   County of Cuyahoga.       )   SS:     CERTIFICATE  
 2                                   )

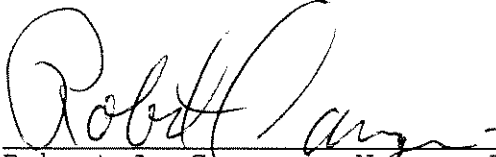
3       I, Robert A. Cangemi, a Notary Public within and for  
 4 the State of Ohio, duly commissioned and qualified, do  
 5 hereby certify that the within-named CHARLES J. HEARN,  
 6 D.O., was by me first duly sworn to testify the truth, and  
 7 nothing but the truth in the cause aforesaid; that the  
 8 testimony then given by him/her was by me reduced to  
 9 stenotypy in the presence of said witness, afterwards  
 10 transcribed upon a computer, and the foregoing is a true  
 11 and correct transcript of the testimony so given by  
 12 him/her as aforesaid.

13       I do further certify that this deposition was taken  
 14 at the time and place in the foregoing caption specified  
 15 and was completed without adjournment.

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

19       IN WITNESS WHEREOF, I have hereunto set my hand and  
 20 affixed my seal of office at Cleveland, Ohio on this 22nd  
 21 day of March, 1999.

22  
 23  
 24  
 25

  
 Robert A. Cangemi, Notary Public  
 in and for the State of Ohio.  
 My Commission expires 3-5-02.

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DEPOSITION OF CHARLES HEARN, D.O.  
LONG, etc. v. THE CLEVELAND CLINIC FOUNDATION

<u>Page/Line</u>	<u>Description</u>	<u>Reason</u>
3/12	Charles J Hearn D.O.	
11/5	for the publication in which	
11/6	thirty some patients	
11/14	mean	
12/15	The anesthesiologist	
12/18	Because the incision	
12/19	ability to resuscitate is changed	
12/21	procedures than with	
13/21	it may be performed the night before. IF the patient	
7/2	I believe Dr Koch	
18/1	The problem intubating this patient	
18/2	glottis and place the endotracheal tube while	
18/3	displacing	
21/14	omit moderate left	
21/15	omit ventricular dysfunction	
	severe bicuspid aortic	
22/12	I do not believe so	
28/5	total	
29/5	I believe	
29/19	omit time anesthesia personnel	

Charles Hearn D.O.  
CHARLES HEARN, D.O.

**CURRICULUM VITAE**  
**CHARLES J. HEARN, D.O.**

**I. PERSONAL DATA:**

Address: 22827 Lake Road, #2  
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Place of Birth: Quebec City, Quebec Canada  
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**II. EDUCATION:**

1972 - 1976	Central Catholic Canton, Ohio <i>High School Diploma</i>
1976 - 1980	St. Louis University St. Louis, Missouri <i>Bachelor Arts Chemistry</i>
1980 - 1982	Akron University Akron, Ohio <i>Masters Program</i>
1982 - 1986	Ohio University Athens, Ohio <i>Doctor of Osteopathy</i>

**III. HOSPITAL TRAINING:**

11/93 - 10/94	<i>Fellowship in Echocardiography</i> Cleveland Clinic Foundation Cleveland, Ohio William Stewart, M.D. Director
10/90 - 1/91	<i>Fellowship in Neuro Anesthesia</i> Cleveland Clinic Foundation Cleveland, Ohio
7/90 - 10/90	<i>Fellowship in Pain Therapy</i> Cleveland Clinic Foundation Cleveland, Ohio



7/89 - 6/90

***Fellowship in Cardiothoracic Anesthesia***

Cleveland Clinic Foundation  
Dept. of Cardiothoracic Anesthesia  
Cleveland, Ohio

7/87 - 7/89

***Residency in Anesthesia***

Detroit Osteopathic Hospital  
Department of Anesthesiology  
Detroit, Michigan

7/86 - 7/87

***Rotating Internship***

Parkview Hospital  
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**IV. PAST PROFESSIONAL APPOINTMENTS;**

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***Assistant Staff***

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Dept. of Cardiothoracic Anesthesiology  
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**V. PRESENT PROFESSIONAL APPOINTMENTS:**

2/93 - present

***Staff***

Cleveland Clinic Foundation  
Dept. of Cardiothoracic Anesthesiology  
Cleveland, Ohio

**VI. PROFESSIONAL ACTIVITIES AND HONORS:**

**National Boards:**

Board Certification American Osteopathic College of Anesthesiologists #0648

**Licensure:**

State of Ohio #4519

**Memberships:**

American Society of Anesthesiologists  
American Osteopathic Association  
Ohio Society of Anesthesiologists  
International Anesthesia Research Society  
Society of Cardiovascular Anesthesiologists  
American Osteopathic College of Anesthesiologists

**Appointed Committees:**

Cardiothoracic Resident Admission Committee  
Committee on Continuing Medical Education  
Anesthesia-surgery operating room task force

**Professional Honors:**

Who's Who in America, 1990

**Community Activities:**

None

**VII. BIBLIOGRAPHY:****Manuscripts**

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1. Kraenzler E, Kirby T, Hearn C et al. Airway management of cystic fibrosis patients during double lung transplantation: single lumen endotracheal tubes are superior to double lumen endotracheal tubes. Presented at the Society of Cardiovascular Anesthesiologists, April 1993

### **Book Chapters**

1. Kraenzler E, Hearn C. Anesthetic considerations for video assisted thoracic surgery. Atlas of Thoracoscopic Surgery. W.B. Saunders, 1994, pp 66-74.

### **VIII. RESEARCH IN PROGRESS:**

None

### **IX. LECTURES:**

Available upon request.

### **X. SCIENTIFIC EXHIBITS:**

None

### **XI. REFERENCES**

Available upon request.