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April 15, 2003

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1 IN THE COURT OF COMMON PLEAS 3 OF CUYAHOGA COUNTY, OHIO 4 Image: State of Council and as Administratrix 6 of the Estate of Council and as Administratrix 6 of the Estate of Council and as Administratrix 6 of the Estate of Council and as Administratrix 7 deceased Plaintiff, 8 vs. Case No. THE CLEVELAND CLINIC FOUNDATION, 477704 9 Defendant. 10 Image: Council and anticestory of the State of Council anticestory of the State of Council anticestory of the State of Council anticestory of the State of Concernent and Notary 17 Deposition of DELOS M. COSGROVE, III, M.D. 18 Registered Professional Reporter and Notary 19 Public in and for the State of Ohio, pursuant to 20 notice and stipulations of counsel, at the 21 offices of The Cleveland Clinic Foundation, 9500 22 Euclid Avenue, Cleveland, Ohio, on the day and Cate set forth above, at 8:04 a.m. 24 Image: Council and State	 DELOS M. COSGROVE, III, M.D., of lawful age, called for examination, as provided by the Ohio Rules of Civil Procedure, being by me first duly sworn, as hereinafter certified, deposed and said as follows: EXAMINATION OF DELOS M. COSGROVE, III, M.D. BY MR. MISHKIND: Q. Would you please state your name for the record? A. Delos Marshall Cosgrove. Q. Dr. Cosgrove, you and I have not met before. My name is Howard Mishkind, and along with Chris DeVito, I think you understand that we represent the family of Laura Adams. You do understand that, don't you? A. Yes. MR. MISHKIND: Let's mark this as Plaintiff's Exhibit 1. Q. Plaintiff's Exhibit 1 is a document that was sent over to me yesterday by your
Page 2 1 APPEARANCES: 2 On behalf of the Plaintiff: 3 Becker & Mishkind Co., L.P.A., by 4 HOWARD MISHKIND, ESQ. 5 Skylight Office Tower, Suite 660 6 1660 West Second Street 7 Cleveland, Ohio 44113 8 (216) 241-2600 9 10 Morganstern, MacAdams & DeVito Co., by 11 CHRISTOPHER M. DeVITO, ESQ. 12 623 West St. Clair Avenue 13 Cleveland, Ohio 44113 14 (216) 687-1212 15 16 On behalf of the Defendant: 17 Reminger & Reminger Co., L.P.A., by 18 WILLIAM A. MEADOWS, ESQ. 19 LESLIE M. JENNY, ESQ. 20 1400 Midland Building 21 101 Prospect Avenue West 22 Cleveland, Ohio 44115 23 (216) 687-1311 24 25	 Page 4 1 attorney by e-mail. Would you just verify for 2 me that this is a current CV? 3 A. Yes. 4 Q. It is current? 5 A. Yes. 6 Q. Doctor, just before I begin my 7 questioning, I understand it's now about five 8 after 8:00, and I was advised just actually by 9 you off the record that you have a commitment at 10 9:15 today, so the deposition has to end for 11 today at 9:15; is that true? 12 A. That's right. 13 Q. I'll do the best I can in terms of 14 trying to accomplish as much as I can, but I 15 don't know whether I'll be able to finish my 16 questioning. We may have to get back together 17 at another time. 18 A. My answers will be very short. I 19 hope your questions are, too. 20 Q. I'll try to do that. You've had 21 your deposition taken before, true? 22 A. I have. 23 Q. Have you ever been named as a 24 defendant in a medical malpractice case? 25 A. Yes.

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I Q. On how many occasions, sir? 2 A. I don't know.	1 involved as the surgeon in any cases where
3 Q. Can you give me an estimate?	2 complications occurred secondary to an aortic 3 valve replacement surgery? I know that may
4 A. Half a dozen.	
5 Q. Are you currently a defendant in any	4 sound like the same question I just asked you,5 but at any time either during the perioperative
6 medical negligence cases?	6 period or during the recovery period where you
7 A. Yes.	7 had done an aortic valve replacement.
8 Q. How many?	8 A. Yes.
9 A. One; two counting this.	
10 MR. MEADOWS: Show a continuing	9 Q. Do you remember how many such cases? 10 A. No.
11 objection to other lawsuits.	11 Q. Do you remember the name of any of
12 MR. MISHKIND: That's fine.	
13 Q. The other case, does it have similar	12 those patients?
14 issues to this case?	
15 A. No.	14 Q. Have you ever served as an expert 15 witness?
16 Q. What is the subject matter of the	16 A. Once.
17 other case?	17 Q. What was the subject matter of that?
18 A. It is a ortic dissection.	18 A. Coronary bypass surgery.
19 Q. What was the nature of the surgery	19 O. Did that case involve valve
20 that you were performing?	20 replacement as well?
21 A. It was relative to a cannulation	21 A. No.
22 site for an aortic valve replacement.	
23 Q. It was an aortic valve replacement	22 Q. Where was the case that you were 23 testifying in?
24 as well?	24 A. In Atlanta.
25 A. Yes, it was.	25 Q. How long ago was that, sir?
	2 C. HOW HOUG AGO WAS LINE SHE
Page 6	Page 8
I Q. But in that case there was an aortic	
1 2 dissection at the time of the aortic valve	1 A. 15 years. 2 O Were you testifying on helpolf of the
2 dissection at the time of the aortic valve 3 replacement?	2 Q. Were you testifying on behalf of the
3 replacement?	2 Q. Were you testifying on behalf of the 3 patient or on behalf of the physician?
3 replacement? 4 A. Yes.	 2 Q. Were you testifying on behalf of the 3 patient or on behalf of the physician? 4 A. Physician.
3 replacement? 4 A. Yes. 5 Q. Intraoperatively?	 Q. Were you testifying on behalf of the patient or on behalf of the physician? A. Physician. Q. Who was the physician that was
 3 replacement? 4 A. Yes. 5 Q. Intraoperatively? 6 A. Yes. 	 2 Q. Were you testifying on behalf of the 3 patient or on behalf of the physician? 4 A. Physician. 5 Q. Who was the physician that was 6 named?
 3 replacement? 4 A. Yes. 5 Q. Intraoperatively? 6 A. Yes. 7 Q. Did the patient die? 	 2 Q. Were you testifying on behalf of the 3 patient or on behalf of the physician? 4 A. Physician. 5 Q. Who was the physician that was 6 named? 7 A. Joe Craver.
 3 replacement? 4 A. Yes. 5 Q. Intraoperatively? 6 A. Yes. 7 Q. Did the patient die? 8 A. No. 	 2 Q. Were you testifying on behalf of the 3 patient or on behalf of the physician? 4 A. Physician. 5 Q. Who was the physician that was 6 named? 7 A. Joe Craver. 8 Q. Is that with a C?
 3 replacement? 4 A. Yes. 5 Q. Intraoperatively? 6 A. Yes. 7 Q. Did the patient die? 8 A. No. 9 Q. What was the name of that patient? 	 2 Q. Were you testifying on behalf of the 3 patient or on behalf of the physician? 4 A. Physician. 5 Q. Who was the physician that was 6 named? 7 A. Joe Craver. 8 Q. Is that with a C? 9 A. Uh-huh.
 3 replacement? 4 A. Yes. 5 Q. Intraoperatively? 6 A. Yes. 7 Q. Did the patient die? 8 A. No. 9 Q. What was the name of that patient? 10 A. I don't remember. 	 2 Q. Were you testifying on behalf of the 3 patient or on behalf of the physician? 4 A. Physician. 5 Q. Who was the physician that was 6 named? 7 A. Joe Craver. 8 Q. Is that with a C? 9 A. Uh-huh. 10 Q. That's a yes?
 3 replacement? 4 A. Yes. 5 Q. Intraoperatively? 6 A. Yes. 7 Q. Did the patient die? 8 A. No. 9 Q. What was the name of that patient? 10 A. I don't remember. 11 Q. It's a case that's filed here in 	 2 Q. Were you testifying on behalf of the 3 patient or on behalf of the physician? 4 A. Physician. 5 Q. Who was the physician that was 6 named? 7 A. Joe Craver. 8 Q. Is that with a C? 9 A. Uh-huh. 10 Q. That's a yes? 11 A. Yes.
 3 replacement? 4 A. Yes. 5 Q. Intraoperatively? 6 A. Yes. 7 Q. Did the patient die? 8 A. No. 9 Q. What was the name of that patient? 10 A. I don't remember. 11 Q. It's a case that's filed here in 12 Cuyahoga County? 	 2 Q. Were you testifying on behalf of the 3 patient or on behalf of the physician? 4 A. Physician. 5 Q. Who was the physician that was 6 named? 7 A. Joe Craver. 8 Q. Is that with a C? 9 A. Uh-huh. 10 Q. That's a yes? 11 A. Yes. 12 Q. That's the only time that you've
 3 replacement? 4 A. Yes. 5 Q. Intraoperatively? 6 A. Yes. 7 Q. Did the patient die? 8 A. No. 9 Q. What was the name of that patient? 10 A. I don't remember. 11 Q. It's a case that's filed here in 12 Cuyahoga County? 13 A. I assume. 	 Q. Were you testifying on behalf of the patient or on behalf of the physician? A. Physician. Q. Who was the physician that was named? A. Joe Craver. Q. Is that with a C? A. Uh-huh. Q. That's a yes? A. Yes. Q. That's the only time that you've been an expert?
 3 replacement? 4 A. Yes. 5 Q. Intraoperatively? 6 A. Yes. 7 Q. Did the patient die? 8 A. No. 9 Q. What was the name of that patient? 10 A. I don't remember. 11 Q. It's a case that's filed here in 12 Cuyahoga County? 13 A. I assume. 	 Q. Were you testifying on behalf of the patient or on behalf of the physician? A. Physician. Q. Who was the physician that was named? A. Joe Craver. Q. Is that with a C? A. Uh-huh. Q. That's a yes? A. Yes. Q. That's the only time that you've been an expert? A. Yes.
 3 replacement? 4 A. Yes. 5 Q. Intraoperatively? 6 A. Yes. 7 Q. Did the patient die? 8 A. No. 9 Q. What was the name of that patient? 10 A. I don't remember. 11 Q. It's a case that's filed here in 12 Cuyahoga County? 13 A. I assume. 14 Q. Has your deposition been taken in 15 that case? 	 Q. Were you testifying on behalf of the patient or on behalf of the physician? A. Physician. Q. Who was the physician that was named? A. Joe Craver. Q. Is that with a C? A. Uh-huh. Q. That's a yes? A. Yes. Q. That's the only time that you've been an expert? A. Yes. Q. You have written on minimally
 3 replacement? 4 A. Yes. 5 Q. Intraoperatively? 6 A. Yes. 7 Q. Did the patient die? 8 A. No. 9 Q. What was the name of that patient? 10 A. I don't remember. 11 Q. It's a case that's filed here in 12 Cuyahoga County? 13 A. I assume. 14 Q. Has your deposition been taken in 15 that case? 16 A. No. 	 Q. Were you testifying on behalf of the patient or on behalf of the physician? A. Physician. Q. Who was the physician that was named? A. Joe Craver. Q. Is that with a C? A. Uh-huh. Q. That's a yes? A. Yes. Q. That's the only time that you've been an expert? A. Yes. Q. You have written on minimally Invasive aortic and mitral valve replacement?
 3 replacement? 4 A. Yes. 5 Q. Intraoperatively? 6 A. Yes. 7 Q. Did the patient die? 8 A. No. 9 Q. What was the name of that patient? 10 A. I don't remember. 11 Q. It's a case that's filed here in 12 Cuyahoga County? 13 A. I assume. 14 Q. Has your deposition been taken in 15 that case? 16 A. No. 17 Q. Other than that aortic valve 	 Q. Were you testifying on behalf of the patient or on behalf of the physician? A. Physician. Q. Who was the physician that was named? A. Joe Craver. Q. Is that with a C? A. Uh-huh. Q. That's a yes? A. Yes. Q. That's the only time that you've been an expert? A. Yes. Q. You have written on minimally Invasive aortic and mitral valve replacement? A. Uh-huh.
 3 replacement? 4 A. Yes. 5 Q. Intraoperatively? 6 A. Yes. 7 Q. Did the patient die? 8 A. No. 9 Q. What was the name of that patient? 10 A. I don't remember. 11 Q. It's a case that's filed here in 12 Cuyahoga County? 13 A. I assume. 14 Q. Has your deposition been taken in 15 that case? 16 A. No. 17 Q. Other than that aortic valve 18 replacement case and this case, have you been 	 Q. Were you testifying on behalf of the patient or on behalf of the physician? A. Physician. Q. Who was the physician that was named? A. Joe Craver. Q. Is that with a C? A. Uh-huh. Q. That's a yes? A. Yes. Q. That's the only time that you've been an expert? A. Yes. Q. You have written on minimally Invasive aortic and mitral valve replacement? A. Uh-huh. Q. Correct?
 3 replacement? 4 A. Yes. 5 Q. Intraoperatively? 6 A. Yes. 7 Q. Did the patient die? 8 A. No. 9 Q. What was the name of that patient? 10 A. I don't remember. 11 Q. It's a case that's filed here in 12 Cuyahoga County? 13 A. I assume. 14 Q. Has your deposition been taken in 15 that case? 16 A. No. 17 Q. Other than that aortic valve 18 replacement case and this case, have you been 19 involved as a defendant or an employee at the 	 Q. Were you testifying on behalf of the patient or on behalf of the physician? A. Physician. Q. Who was the physician that was named? A. Joe Craver. Q. Is that with a C? A. Uh-huh. Q. That's a yes? A. Yes. Q. That's the only time that you've been an expert? A. Yes. Q. You have written on minimally Invasive aortic and mitral valve replacement? A. Uh-huh. Q. Correct? A. Yes.
 3 replacement? 4 A. Yes. 5 Q. Intraoperatively? 6 A. Yes. 7 Q. Did the patient die? 8 A. No. 9 Q. What was the name of that patient? 10 A. I don't remember. 11 Q. It's a case that's filed here in 12 Cuyahoga County? 13 A. I assume. 14 Q. Has your deposition been taken in 15 that case? 16 A. No. 17 Q. Other than that aortic valve 18 replacement case and this case, have you been 19 involved as a defendant or an employee at the 20 Cleveland Clinic in any cases that have involved 	 Q. Were you testifying on behalf of the patient or on behalf of the physician? A. Physician. Q. Who was the physician that was named? A. Joe Craver. Q. Is that with a C? A. Uh-huh. Q. That's a yes? A. Yes. Q. That's the only time that you've been an expert? A. Yes. Q. You have written on minimally Invasive aortic and mitraf valve replacement? A. Uh-huh. Q. Correct? A. Yes. Q. I scanned your CV, and I came up
 3 replacement? 4 A. Yes. 5 Q. Intraoperatively? 6 A. Yes. 7 Q. Did the patient die? 8 A. No. 9 Q. What was the name of that patient? 10 A. I don't remember. 11 Q. It's a case that's filed here in 12 Cuyahoga County? 13 A. I assume. 14 Q. Has your deposition been taken in 15 that case? 16 A. No. 17 Q. Other than that aortic valve 18 replacement case and this case, have you been 19 Involved as a defendant or an employee at the 20 Cleveland Clinic in any cases that have involved 21 aortic valve replacement surgeries where some 	 Q. Were you testifying on behalf of the patient or on behalf of the physician? A. Physician. Q. Who was the physician that was named? A. Joe Craver. Q. Is that with a C? A. Uh-huh. Q. That's a yes? A. Yes. Q. That's the only time that you've been an expert? A. Yes. Q. You have written on minimally invasive aortic and mitral valve replacement? A. Uh-huh. Q. Correct? A. Yes. Q. I scanned your CV, and I came up with a few areas where I believe that there are
 3 replacement? 4 A. Yes. 5 Q. Intraoperatively? 6 A. Yes. 7 Q. Did the patient die? 8 A. No. 9 Q. What was the name of that patient? 10 A. I don't remember. 11 Q. It's a case that's filed here in 12 Cuyahoga County? 13 A. I assume. 14 Q. Has your deposition been taken in 15 that case? 16 A. No. 17 Q. Other than that aortic valve 18 replacement case and this case, have you been 19 involved as a defendant or an employee at the 20 Cleveland Clinic in any cases that have involved 21 aortic valve replacement surgeries where some 22 complications occurred either intraoperatively 	 Q. Were you testifying on behalf of the patient or on behalf of the physician? A. Physician. Q. Who was the physician that was named? A. Joe Craver. Q. Is that with a C? A. Uh-huh. Q. That's a yes? A. Yes. Q. That's the only time that you've been an expert? A. Yes. Q. You have written on minimally Invasive aortic and mitral valve replacement? A. Uh-huh. Q. Correct? A. Yes. Q. I scanned your CV, and I came up with a few areas where I believe that there are articles that touch on aortic valve replacement
 3 replacement? 4 A. Yes. 5 Q. Intraoperatively? 6 A. Yes. 7 Q. Did the patient die? 8 A. No. 9 Q. What was the name of that patient? 10 A. I don't remember. 11 Q. It's a case that's filed here in 12 Cuyahoga County? 13 A. I assume. 14 Q. Has your deposition been taken in 15 that case? 16 A. No. 17 Q. Other than that aortic valve 18 replacement case and this case, have you been 19 involved as a defendant or an employee at the 20 Cleveland Clinic in any cases that have involved 21 aortic valve replacement surgeries where some 22 complications occurred either intraoperatively 	 Q. Were you testifying on behalf of the patient or on behalf of the physician? A. Physician. Q. Who was the physician that was named? A. Joe Craver. Q. Is that with a C? A. Uh-huh. Q. That's a yes? A. Yes. Q. That's the only time that you've been an expert? A. Yes. Q. You have written on minimally Invasive aortic and mitral valve replacement? A. Uh-huh. Q. Correct? A. Yes. Q. I scanned your CV, and I came up with a few areas where I believe that there are articles that touch on aortic valve replacement surgery. Are all of the articles that you have
 3 replacement? 4 A. Yes. 5 Q. Intraoperatively? 6 A. Yes. 7 Q. Did the patient die? 8 A. No. 9 Q. What was the name of that patient? 10 A. I don't remember. 11 Q. It's a case that's filed here in 12 Cuyahoga County? 13 A. I assume. 14 Q. Has your deposition been taken in 15 that case? 16 A. No. 17 Q. Other than that aortic valve 18 replacement case and this case, have you been 19 involved as a defendant or an employee at the 20 Cleveland Clinic in any cases that have involved 21 aortic valve replacement surgeries where some 22 complications occurred either intraoperatively 23 or during the postoperative period? 24 A. No. 	 Q. Were you testifying on behalf of the patient or on behalf of the physician? A. Physician. Q. Who was the physician that was named? A. Joe Craver. Q. Is that with a C? A. Uh-huh. Q. That's a yes? A. Yes. Q. That's the only time that you've been an expert? A. Yes. Q. You have written on minimally invasive aortic and mitral valve replacement? A. Uh-huh. Q. Correct? A. Yes. Q. I scanned your CV, and I came up with a few areas where I believe that there are articles that touch on aortic valve replacement surgery. Are all of the articles that you have published as it relates to aortic valve
 3 replacement? 4 A. Yes. 5 Q. Intraoperatively? 6 A. Yes. 7 Q. Did the patient die? 8 A. No. 9 Q. What was the name of that patient? 10 A. I don't remember. 11 Q. It's a case that's filed here in 12 Cuyahoga County? 13 A. I assume. 14 Q. Has your deposition been taken in 15 that case? 16 A. No. 17 Q. Other than that aortic valve 18 replacement case and this case, have you been 19 involved as a defendant or an employee at the 20 Cleveland Clinic in any cases that have involved 21 aortic valve replacement surgeries where some 22 complications occurred either intraoperatively 23 or during the postoperative period? 	 Q. Were you testifying on behalf of the patient or on behalf of the physician? A. Physician. Q. Who was the physician that was named? A. Joe Craver. Q. Is that with a C? A. Uh-huh. Q. That's a yes? A. Yes. Q. That's the only time that you've been an expert? A. Yes. Q. You have written on minimally Invasive aortic and mitral valve replacement? A. Uh-huh. Q. Correct? A. Yes. Q. I scanned your CV, and I came up with a few areas where I believe that there are articles that touch on aortic valve replacement surgery. Are all of the articles that you have

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 A. Yes. Q. Do you consider the articles that you have written on this topic to be authoritative? A. They're my views. Q. But in your opinion are they authoritative? A. They're my views. Q. Do you believe that they are reasonably reliable opinions on the subject matter? A. Yes. Q. Do you have anything that you are currently publishing or have submitted for publication on the subject of aortic valve replacement surgery? A. No. Q. Are all the articles that you've written on aortic valve replacement dealing with minimally invasive procedures, or have you written on both open sternotomy as well as minimally invasive? A. Written on both. Q. You have, Doctor, it looks like 	 entire deposition, a lot of the opinions that he expressed and statements that he made as to the patient's postoperative course A. I expect you will. Q although I don't know whether I'll be able to do that in the time we have today. That's why I was asking with specific regard to his involvement from the 18th of January until the time of discharge, are you able maybe I'll give it to you this way. Are you able to comment at all on the medical management of this patient from the 18th to the time of discharge which is what I focused in with Dr. Klein on during the deposition? MR. MEADOWS: Same objection. Go ahead and answer, if you can. A. I don't know what the question is. I'm not sure. Q. I was hoping to do it the simple way, but I guess I won't be able to do it that way.
 25 Dr. Klein's deposition? Page 10 1 A. Yes. 2 Q. Have you read it over? 3 A. Yes. 4 Q. Did you make any notes at all when 5 you read his deposition? 6 A. No. 7 Q. Did you note anything in the 8 deposition or highlight anything in the 9 deposition? 10 A. No. 11 Q. Did you turn back any pages in the 12 depo? 	 A. No. Page 12 Q. Let me finish. Have you talked to Dr. Klein since his deposition? A. No. Q. Have you talked to Dr. Klein about Laura Adams A. No. Q at any time since Laura Adams left the hospital? A. No. Q. Have you talked to Dr. Kerr, who apparently was your assistant during the surgeries, since Laura Adams died?
 13 A. No. 14 Q. When did you read the depo, Doctor? 15 A. In the last 24 hours. 16 Q. Is there anything that stands out 17 from your recent review of the deposition that 18 you believe to be noteworthy? 19 MR. MEADOWS: Objection. It's 20 awfully broad. It was a long deposition. 21 MR. MISHKIND: Sure. I understand 22 that. 23 A. I think you'll have to be more 24 specific for me. 25 Q. I can certainly go through the 	 A. No. A. No. How about Dr. Rattlife, the pathologist, have you talked to him at all about the cause of the patient's death? A. I've read his report. I haven't talked to him about it. Q. You're talking about his pathology report? A. Yes. Q. Have you talked to anyone, Dr. Cosgrove, about this case outside of the Cleveland Clinic in terms of any of the complications or issues that arose with Laura

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1 Adams? 2 MR. MEADOWS: Other than us, right?	1 A. I write what I think. You know, I 2 write what the facts are and what my thoughts
3 A. No.	2 write what the facts are and what my thoughts 3 are.
4 Q. Other than your attorneys.	4 MR. MEADOWS: Let's go off the
5 A. No.	5 record.
6 Q. Have you reviewed any medical	6 (Discussion off the record.)
7 literature for purposes of today's deposition?	7 Q. You have not only journals but also
8 A. No. 9 Q. I take it that if you wanted	8 book chapters on minimally invasive aortic valve9 replacement, true?
10 reliable information as it relates to the	10 A. Yes.
11 indications for minimally invasive aortic valve	11 Q. Some of your publications, are they
12 replacement, the first place that you would look	12 in Topol's textbook?
13 would be your publications, correct?	13 A. No.
14 A. I developed the operation. 15 Q. I understand that, and I'm not in	14 Q. Where are they? 15 A. One is in Topol's textbook, yes.
16 any way trying to suggest that you would need to	15 A. One is in Topol's textbook, yes.16 Q. Do you have a text that you have
17 look anywhere other than your publications.	17 written on minimally invasive aortic valve
18 A. I think I've read most of the	18 replacement?
19 literature that has been written on that topic.	19 A. No.
20 Q. And certainly your publications and 21 what you've written are as good if not better	20 Q. Where are the book chapters, what 21 books?
21 what you've written are as good if not better22 than what's out there by anyone else, correct?	21 books? 22 A. I think they are listed in there
23 A. That's your judgment.	23 (indicating).
24 Q. Do you agree with me?	24 Q. What comes to mind in terms of the
2.5 A. I've done more than anybody else out	25 most recent book chapter that you have
Page 14	Page 16
1 there.	1 published?
1 there. 2 Q. So your publications and what you've	1 published? 2 A. Well, I'm not sure 1 remember.
 there. Q. So your publications and what you've 3 written would probably be the best on the 	1 published? 2 A. Well, I'm not sure 1 remember. 3 Q. Have you lectured within the last
 there. Q. So your publications and what you've 3 written would probably be the best on the 	1 published? 2 A. Well, I'm not sure 1 remember. 3 Q. Have you lectured within the last
 there. Q. So your publications and what you've written would probably be the best on the subject of minimally invasive aortic valve replacement, true? A. That's a judgment that I can't make. 	 published? A. Well, I'm not sure I remember. Q. Have you lectured within the last year on the topic of minimally invasive aortic valve replacement? A. Yes.
 there. Q. So your publications and what you've written would probably be the best on the subject of minimally invasive aortic valve replacement, true? A. That's a judgment that I can't make. Q. You won't quarrel with me on that 	 published? A. Well, I'm not sure I remember. Q. Have you lectured within the last year on the topic of minimally invasive aortic valve replacement? A. Yes. Q. Where?
 there. Q. So your publications and what you've written would probably be the best on the subject of minimally invasive aortic valve replacement, true? A. That's a judgment that I can't make. Q. You won't quarrel with me on that judgment, though, will you? 	 published? A. Well, I'm not sure I remember. Q. Have you lectured within the last year on the topic of minimally invasive aortic valve replacement? A. Yes. Q. Where? A. Probably
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 there. Q. So your publications and what you've written would probably be the best on the subject of minimally invasive aortic valve replacement, true? A. That's a judgment that I can't make. Q. You won't quarrel with me on that judgment, though, will you? A. I wouldn't quarrel with you on anything. Q. Is that a fair assessment, that what 	 published? A. Well, I'm not sure I remember. Q. Have you lectured within the last year on the topic of minimally invasive aortic valve replacement? A. Yes. Q. Where? A. Probably Q. Most recently. A. Kuala Lumpur most recently. I'm sorry?
 there. Q. So your publications and what you've written would probably be the best on the subject of minimally invasive aortic valve replacement, true? A. That's a judgment that I can't make. Q. You won't quarrel with me on that judgment, though, will you? A. I wouldn't quarrel with you on anything. Q. Is that a fair assessment, that what you have written is not only considered in your 	 published? A. Well, I'm not sure I remember. Q. Have you lectured within the last year on the topic of minimally invasive aortic valve replacement? A. Yes. Q. Where? A. Probably Q. Most recently. A. Kuala Lumpur most recently. I. m sorry? A. Kuala Lumpur, Malaysia.
 there. Q. So your publications and what you've written would probably be the best on the subject of minimally invasive aortic valve replacement, true? A. That's a judgment that I can't make. Q. You won't quarrel with me on that judgment, though, will you? A. I wouldn't quarrel with you on anything. Q. Is that a fair assessment, that what you have written is not only considered in your mind but by most of your colleagues to be the 	 published? A. Well, I'm not sure I remember. Q. Have you lectured within the last year on the topic of minimally invasive aortic valve replacement? A. Yes. Q. Where? A. Probably Q. Most recently. A. Kuala Lumpur most recently. Q. How about within the U.S.?
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4 (Pages 13 to 16)

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Page 17	Page 19
1 A. Yes. 2 Q. With minimally invasive aortic valve	1 Q. Was this a fellowship? 2 A. Yes.
3 replacement surgery, would you agree that there	2 A. Yes. 3 Q. A fellowship under your tutelage?
4 is less visualization of the heart as compared	4 A. In our department yes.
5 to when a full sternotomy is done?	5 Q. I'm sorry, sir?
6 A. I would agree with the heart. I	6 A. In our department.
7 would disagree in terms of the relevant areas	7 Q. Did you work with him on a regular
8 for the aortic valve.	8 basis?
9 Q. When you're doing a minimally	9 A. Yes.
10 invasive valve replacement, are you the only one	10 Q. When you did your aortic valve
11 that's able to visualize the aortic valve?	11 replacement surgeries, was Dr. Kerr back during
12 A. No.	12 that time period the assistant that you would
1.3 Q. How is the visualization appreciated	13 have in most cases?
 14 by others in the operating room? 15 A. My assistant sees the same thing I 	14 A. Fellows rotate with me for a
, construction of the state states and states	15 three-month period. There was two of them, so
16 see. 17 Q. What I have in my mind, and	16 they would help me during that three months of 17 time.
18 obviously I've not seen you perform the surgery,	
19 but sort of a keyhole view of the aortic valve.	18 Q. Do you remember who else was the 19 other fellow besides Dr. Kerr at that time?
20 Is my assessment inaccurate, in other words,	20 A. No. I don't remember, but he would
21 that you're looking into a very limited	21 have been in a different room at the time, not
A. The incision is 6 to 8 centimeters.	22 scrubbed on this case.
23 Q. How is it that your assistant is	23 Q. This surgery was in January of 1999.
24 able to visualize that during the course of the	24 Do you know when Dr. Kerr left the Cleveland
25 replacement with minimally invasive surgery and	25 Clinic?
Page 18	Page 20
I the technique that you use?	
I the technique that you use? 2 A. He looks right at it. You see the	I A. I don't. 2 Q. Do you remember Laura Adams?
3 aortic valve the same way you would see it if	2 Q. Do you remember Laura Adams? 3 A. Yes.
4 you were doing it through a full sternotomy.	4 Q. You performed two surgeries on her,
5 Q. Dr. Kerr was your assistant?	5 correct?
6 A. Yes.	6 A. Yes.
7 Q. Where is Dr. Kerr located now?	7 Q. Both surgeries were on the 14th?
8 A. I don't know.	8 A. Yes.
9 Q. Is he affiliated with the Cleveland	9 Q. After the second surgery on the
10 Clinic?	10 14th, did you follow Laura through the time of
11 A. No.	11 her discharge?
12 Q. Dr. Kerr is an osteopathic	12 A. Well, I think you have to understand
13 physician?	13 how we do it here. Generally, we look after the
14 A. Yes. 15 Q. Where was he in terms of his	14 surgical problems that are related to them, and
15 Q. Where was he in terms of his 16 training?	15 the cardiologists look after the medical
17 A. He was a fully trained thoracic	16 problems, and it goes from the intensive care
18 surgeon, cardiothoracic surgeon.	17 unit. When she left the intensive care unit, 18 generally they will transfer mainly to the
19 Q. How long had he been at the	19 cardiology service. So one of my team saw her.
20 Cleveland Clinic back in '99?	20 I may or may not have seen her, and I don't
21 A. He was coming back. He had been in	21 remember.
22 practice in Buffalo for a number of years, and	22 Q. Were you responsible for the
23 he came back and spent an additional year with	23 decision that was ultimately made to discharge
	,
24 us. I don't remember where in the course of the	24 this patient?
24 us. I don't remember where in the course of the25 year that was.	24 this patient? 25 A. No.

5 (Pages 17 to 20)

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April 15, 2003

Page 21	Page 23
I Q. Whose responsibility was it to	1 me in some of her responses to things.
2 decide whether the patient should be discharged	
3 or should stay in the hospital?	
1 V V V V V V V V V V V V V V V V V V V	4 impression. That was four years ago.
5 Q. It's not a shared responsibility	5 Q. Sure. I understand that. But the
6 between cardiothoracic and cardiology?	6 fact that you remember that it was somewhat
7 A. No.	7 inappropriate, even though you may not be able
8 Q. Do you have any opinions as it	8 to give me a specific example, can you
9 relates to whether this patient was an	9 generalize at all in terms of was she rude to
10 appropriate candidate to be discharged on	10 you?
11 January 24th from the hospital?	11 A. No.
12 A. I didn't make the decision, so I'm	12 Q. Was she short with you?
13 not in a position to have an opinion.	13 A. No.
14 Q. Again, obviously, you know the legal	14 Q. Did she cut you off?
15 issues that are involved, so I just want to find	15 A. No.
16 out whether or not you intend to express an	16 Q. Did she disagree with what you were
17 opinion on that topic.	17 saying?
18 A. No.	18 A. No. She was not argumentative at
19 Q. When I asked you whether you	19 all.
20 remember Laura, you said, yes, you do. Do you	1
21 remember anything about Laura after the second	20 Q. Can you verbalize anything that 21 would give me a better understanding as to why
22 surgery in terms of your clinical assessment of	
	22 you believed that her anxiety was outside of the
	23 realm of normal?
24 you saw her during the postoperative period?	A. No. I can just tell you that's my
25 A. No.	25 memory of it. I can't remember specifically.
Page 22	Page 24
	1 Q. You won't be able to take the stand
1 Q. So your memory of her would have 2 been	1 Q. You won't be able to take the stand 2 and say I remember her doing this or 1 remember
1 Q. So your memory of her would have 2 been 3 A. Preoperatively.	1 Q. You won't be able to take the stand 2 and say I remember her doing this or I remember 3 her doing that which is an example?
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6 (Pages 21 to 24)

Page 25	Page 27
1 invasive aortic valve replacement with the	1 A. Yes.
2 homograft technique, did you discuss with the	2 Q. Did he do the preoperative
3 patient prior to doing the surgery the various	3 assessment on the patient?
4 techniques or options that existed for aortic	4 A. Yes.
5 valve replacement?	5 Q. Can you explain to me briefly, and
6 A. Yes. 7 O. Based upon her prior medical	6 again to try to streamline things, how the
	7 process takes place when a patient is referred
 8 history, her age, her physical condition, did 9 you make certain recommendations to her? 	8 to the Cleveland Clinic as a candidate for 9 aortic valve replacement, what happens before
10 A. No. I told her I'd do it either	9 aortic valve replacement, what happens before 10 they get to you, please?
11 way. She could have a small incision or a large	11 A. They come in one of two ways. They
12 one.	12 are either referred directly to me, or they are
13 Q. But in terms of using a homograft,	13 referred through a cardiologist, or they come
14 were there other options that you had in terms	14 through them referred to me. As I remember,
15 of the AVR replacement?	15 this lady was referred to me, and I always have
16 A. Uh-huh.	16 a cardiologist see them preoperatively to do the
17 Q. What were they?	17 clinical evaluation of the cardiac status, and 1
18 A. Do a pericardial valve, a mechanical	18 saw her preoperatively and discussed the
19 valve, but she wanted a homograft.	19 findings with her and what we would do in the
20 Q. Had she done, to your knowledge, any	20 operating room.
21 studying on the topic?	21 Q. She came to the Cleveland Clinic, I
22 A. I don't remember whether she had or	22 believe, on the 13th. Did you see her on the
23 not, but she came I remember quite definitely 24 that she wanted the homograft.	23 day before the surgery?
24 that she wanted the homograft. 25 Q. Did you ever talk with her	24 A. I think I did. I can't remember the 25 day I saw her exactly, a day or two before.
2.5 Q. Did you ever taik with her	25 day I saw her exactly, a day or two before.
 cardiologist back in Connecticut? A. I don't remember whether I did or not. Q. Do you have, Doctor, outside of the hospital records any notes at all about Laura Adams? A. No. Q. The reason I asked that is because you probably read when the deposition started IO A. Well, I don't keep those notes. 	 Q. Was it your preference, Doctor, to do the procedure with an aortic homograft? A. Not necessarily my preference. I always discuss with the patient all the various options for a valve replacement and the pluses and minuses of those, and I always do what they want to have done. Q. What were the advantages of doing the aortic valve replacement with an aortic homograft?
11 Q. So what Dr. Klein generated after	11 A. The advantages are that it does not
12 the fact	12 require anticoagulation, that it has the best
13 A. I didn't.	13 durability of the tissue, operative advantages,
14 Q you have not done that?	14 and it's the most resistant to infection.
15 A. No.	15 Q. The advantages of doing the aortic
16 Q. So what we have that has come from	16 valve replacement by minimally invasive
17 your mouth by way of dictation or your	17 technique as opposed to an open sternotomy,
18 handwriting is in the Cleveland Clinic chart, 19 true?	18 could you just briefly tell me what those
20 A. That's correct.	19 advantages are? 20 A. Less trauma in terms of less blood
21 Q. You may or may not have had some	21 loss, smaller incision, better opportunity for
22 communication verbally?	22 reoperation in terms of not disturbing the
23 A. I may or may not have. I don't	23 pericardium over the right ventricular outflow
24 remember.	24 tract, shorter stays in the ICU, shorter stays
25 Q. There was a Dr. Grimm?	25 in the hospital, shorter recovery, less pain.

7 (Pages 25 to 28)

April 15, 2003

D 00	
Page 29	Page
1 Q. Are there any contraindications or	l doing the replacement to address the aneurismal
2 relative contraindications to doing the type of	2 area as well?
3 procedure she needed by the minimally invasive	3 A. Yes. That was part of the reason
4 route?	4 for using the homograft.
5 A. Yes, reoperations.	5 Q. Tell me who you remember meeting
6 Q. Can you be more specific when you	6 besides Laura prior to her surgery.
7 say reoperations?	7 A. Her husband was there, but I don't
8 A. I don't do reoperations	8 remember who else.
9 Q. I'm sorry? 10 A. I don't do reoperations through a	9 Q. Do you recall anything about her
 A. I don't do reoperations through a small incision. 	10 husband?
12 Q. So that if there's a need for	11 A. No.
	12 Q. Are you able to picture him
	13 physically?
 A. If she had had a previous operation, I would not have done it through a small 	14 A. No. 15 O. Are you able to recall whether he
16 incision.	
17 Q. Oh, I'm sorry. I understand. So	16 participated in any of the discussions? 17 A. No. He was physically there.
18 that would be the only contraindication?	
19 A. For an isolated aortic valve, yes.	B .
20 Q. Is it unusual for a patient as young	19 Q. You don't know whether other family 20 members were there?
21 as she was to require aortic valve replacement?	
22 A. It's a spectrum of a bell-shaped	21 A. I don't remember the other family 22 members there. I remember that I wrote it in
23 curve well, not bell shaped. The older you	23 the chart that I discussed this with she and her
24 are, the more likely you are to require a valve	
25 replacement.	,,
20 replacement.	25 family was there.
Page 30	Page 3
1Q. Tell me what your understanding was2as to her presurgical cardiac condition in terms3of her heart function aside from4A. She had normal left ventricles,5normal coronaries, a bicuspid aortic valve with6aortic stenosis, an aortic insufficiency, and a7dilated ascending aorta of 4.7 centimeters.8Q. She was not aneurismal, correct?9A. It depends on the definition of10aneurismal. For somebody who is small, and she11certainly had an abnormal-sized aortic valve,12and it's been our experience that women,13particularly who have enlarged aortas, are apt14to have aortic dissections subsequently if you15on't do something about them in the first16operation.17So she was within 3 millimeters of	1Q.When you marked down discussed with2her and her family, it could have just as easily3been her and her husband used in sort of a4general sense, true?5A.6Q.7tell me the specifics of what she asked, but do8you recall her asking you any questions to9understand better what it was that was being10contemplated to be done?11A.12Q.13you just don't remember.14A.15Q.16preoperative discussion with her that you17remember in terms of any exchange between her
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8 (Pages 29 to 32)

	Page 33	Page 35
	i Ege 00	-
1 will be involved, true?		1 A. Yes.
2 A. Yes.		2 Q. Can you put into words as to how
3 Q. As well as the potenti		3 that incision was made?
4 complications that may ensue d		4 A. Yes. You make about a 6 centimeter
5 A. I don't generally go th		5 incision in the skin from over the manubrium,
6 complications. I go through the		6 you cut the sternum down to the fourth right
7 Q. Besides the risk of dea	ath, you don't 7	7 intracostal space and make an L over into the
8 normally indicate any other con		8 right and put a retractor in, and it brings you
9 A. I don't go through all	of the list. 9	9 down on the aortic valve.
10 Those would take about a half a		10 Q. Who did what you just described?
11 Q. Do you go through a		I 1 A. Dr. Kerr.
12 you may die during the surgery		2 Q. Were you present when Dr. Kerr did
13 A. I go through the choic		13 it?
14 prostheses. I tell them the type	of incision, 14	14 A. I don't remember.
15 the risk of the operation, the lea		15 Q. Do you know what time you arrived in
16 expected stay in the intensive ca		16 the OR?
17 length of expected stay in the h	ospital, and the 12	A. Not without looking at the chart.
18 recovery time expected.		18 Q. Please.
19 Q. What do you tell ther	n about the risk 19	9 A. I'll tell you I arrived they
20 of the operation?	20	20 didn't go on the heart-lung machine until I was
21 A. I say it is 1 percent.	2	21 there, if that helps you. I'll go back and
22 Q. That risk of 1 percent	t is a risk of 22	22 look, if you'd like me to, at the exact hour,
23 what happening?	23	23 but I don't come in generally until they do
24 A. Dying.		24 not go on the heart-lung machine until I'm
25 Q. Are there any other r	isks of the 2!	25 there.
	1	
	Page 34	Page 36
í anartían that was the barries of the	-	Page 36
1 operation that you explain other	r than the	1 Q. Is it your testimony that up until
2 1 percent risk of dying?	r than the 1	1 Q. Is it your testimony that up until 2 the time that she was ready to go on the
2 1 percent risk of dying? 3 A. Generally, I don't go	r than the i 2 through all 3	 Q. Is it your testimony that up until the time that she was ready to go on the heart-lung machine you most likely would not
 2 1 percent risk of dying? 3 A. Generally, 1 don't go 4 the other risks. 	r than the i 2 through all 3 4	 Q. Is it your testimony that up until the time that she was ready to go on the heart-lung machine you most likely would not have been in the room?
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Page 37	Page 39
1 Q. Have you modified the technique in	i when she probably would have needed it?
2 any respect 3 A. No.	2 A. You know, I can do it much more
	3 accurately if I get the data out for you.
4 Q since January of '99, sir? 5 MR. MEADOWS: Objection. You can	4 Q. Could you point me to where the data 5 would be?
6 answer.	6 A. Yes.
7 A. No.	7 Q. Where would that be?
8 Q. Since January of '99, so	8 A. Down the hall in Dr. Blackstone's
9 approximately three years, three or four years,	9 office.
10 how many additional AVR surgeries using a	10 Q. Who is Dr. Blackstone?
1 1 homograft through the minimally invasive	11 A. He's our statistician.
12 technique have you performed?	12 Q. He's like the guy at the Cleveland
13 A. I'm coming up on about 3,000	13 Indians that keeps track of things?
14 minimally invasive, and I can't about a third	14 A. Yes. I don't know about the guy for
15 of those are aortic valves, and I can't tell you	15 the Cleveland Indians, but he does keep track of
16 how many are homografts.	16 our data.
17 Q. Are the other two-thirds mitral?	17 Q. Of the aortic valve replacements
18 A. Yes, or combinations.	18 using a homograft similar to Laura Adams, how
19 Q. A combination of mitral and aortic	19 many have you had to resort to an open
20 valve?	20 sternotomy?
21 A. Yes, or tricuspid.	21 A. Our incidence of converting a closed
22 Q. Her mitral valve was not involved,	22 minimally invasive operation to an open
23 correct?	23 sternotomy is approximately 1 percent.
24 A. Correct.	24 Q. Of the 1 percent that you have had
25 Q. You, as I understand it, keep on a	25 to resort to an open sternotomy, what has been
Page 38 1 data entry system the number of AVRs that are 2 performed at the Cleveland Clinic? 3 A. We have almost all the data. 4 Q. It indicates each patient and what 5 the complications were that were incurred, true? 6 A. Yes. 7 Q. What has been your experience in 8 terms of the life expectancy of the valve when 9 replaced without complication intraoperatively 10 or during the immediate postoperative period for 11 this type of valve on a patient in her 30s?	Page 40 i your death rate? In other words, did the l percent of patients survive or did they die? A. The mortality rate for all the minimally invasive aortic valves is .7 percent. Q. What about those that are resorted or reverted or converted to an open sternotomy? A. I don't know that number. Q. Is it reasonable to conclude that the mortality would be higher in that subgroup? A. No, it wouldn't be. Q. Why is that?
 12 A. The valve durability, you're asking 13 me about? 14 Q. Right. 15 A. I can get the data out for you. I 16 can't do it off the top of my head. 17 Q. Do you recall Dr. Klein indicating 18 that with a woman in her 30s she probably would 19 have required secondary valve replacement in a 20 15- to 20-year time period? 21 A. It probably would have been sooner 22 than that actually. 23 Q. Less than 15 years? 	 A. Because I don't have the data, I don't think I can assume that. Q. So if you resort to an open sternotomy and are able to address the complication A. That's not always complications. In some cases it was unrecognized coronary artery disease. Sometimes it was unrecognized mitral valve disease. Occasionally, we had to place a chest tube. Sometimes it was a variety of
 13 me about? 14 Q. Right. 15 A. I can get the data out for you. I 16 can't do it off the top of my head. 17 Q. Do you recall Dr. Klein indicating 18 that with a woman in her 30s she probably would 19 have required secondary valve replacement in a 20 15- to 20-year time period? 21 A. It probably would have been sooner 	 A. Because I don't have the data, I don't think I can assume that. Q. So if you resort to an open sternotomy and are able to address the complication A. That's not always complications. In some cases it was unrecognized coronary artery disease. Sometimes it was unrecognized mitral valve disease. Occasionally, we had to place a chest tube. Sometimes it was because we

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 invasive is converted to an open sternotomy? A. No. Q. Do you know of any articles outside of what you have published that address that issue? A. No. Q. You indicate the overall complication rate is Q. Is? A. Conversion rate. Q. Is? A. It's 1 percent. Q. I percent, and then the .7 percent is what? A. The mortality rate. Q. That includes conversion as well? A. Yes. That includes everything. Q. All comers? A. Yes. Q. Is the mortality rate higher as the patient's age is older? A. I don't think we have enough deaths between age and mortality. Q. Would the mortality be higher where 	1MR. MEADOWS: Objection.2A. I'm sure there are such people.3There are also people who don't believe in4penicillin.5Q. So you would put people who don't6believe in minimally invasive sort of at the7extreme?8A. No. I didn't say that. I said that9you can find any kind of opinion that you want.10Q. Are you the only one that's doing11the minimally invasive as the chief12cardiothoracic surgeon here at the Cleveland13Clinic, or are there others?14A. My colleagues all use it.15Q. I'm sorry?16A. My colleagues all use it.17Q. How many surgeons are there in the18department?19A. There are nine cardiac surgeons.20Q. Once Laura was placed on the21heart-lung machine, you believe that strike23You would have been in the room at24the time that the patient was placed on the
24 Q. Would the mortality be higher where	24 the time that the patient was placed on the
25 there is increased comorbidity?	25 heart-lung machine, true?
Page 42 A. Usually, that's the case, but you're dealing with such a low operative mortality rate that in order to do a multivariable analysis to figure out what the comorbidity is and what the effect is, I don't know if you have enough	Page 44 A. Absolutely. Q. Then can you tell me from the standpoint of the procedure itself what aspect of the initial aortic valve replacement you performed as opposed to Dr. Kerr?
 6 deaths to make it statistically significant. 7 Q. How long have minimally invasive 	6 A. The whole thing. 7 Q. What was Dr. Kerr's role?
8 surgeries of this nature been performed? 9 A. I did the first one in 1996.	8 A. He was my assistant.
10 Q. Is this considered a standard	9 Q. Physically was he assisting in any 10 aspect of the surgery, or was he there to help
 11 approach to aortic valve replacement in the U.S. 12 at this time? 	11 you in the event that you needed an extra set of 12 hands?
13A.It's my standard approach.14Q.That I appreciate, but do you know	A. He assisted me. We worked together.He was on the assistant's side of the table, and
15 whether it's recognized as an accepted approach16 to aortic valve replacement by your peers	15 I was on the surgeon's side of the table. I did16 all of the aortic homograft replacement.
17 throughout the country?18 MR. MEADOWS: Objection to form and	17 Q. So he was on the opposite side of 18 the table?
19 otherwise. 20 A. Well, certainly they're aware of it.	 A. Uh-huh. Q. When you are doing the minimally
21 I don't know whether they accept it or not.22 Most people practice it.	21 invasive surgery, is he able from where he's
23 Q. Are you aware of anyone that feels	23 you've created the aortic valve?
24 that minimally invasive aortic valve replacement25 is contraindicated?	24 A. Yes.25 Q. During Laura's first surgery, did

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Page 45	Page 47
1 you experience any complications?	1 until the time that she had the dissection?
2 A. Yes.	2 A. About an hour.
3 Q. The first complication that you	3 Q. Now, look at your operative report
4 experienced was ventricular fibrillation? 5 A. Yes.	4 on page 2, if you want to look at it, otherwise,
6 Q. Reading through the operative	5 I'm looking at a section where it says, as we
7 report and trying to be as respectful as I	6 were about ready to close the patient, the 7 patient had ventricular fibrillation which did
8 can to your time, if I put words in your mouth,	7 patient had ventricular fibrillation which did 8 not respond to defibrillation multiple times;
9 I'm sure you'll tell me I'm using the wrong	9 therefore, the incision was lengthened, the
10 phraseology was that at or about the time of	10 sternum was completely divided, and manual
11 closure?	11 compression of the heart was begun.
12 A. Yes.	12 Do you remember that taking place?
13 Q. Had you encountered that	13 A. I remémber she fibrillated. I don't
14 complication with ventricular fibrillation at or	14 remember the exact details of it.
15 about the time of closure on any prior cases?	15 Q. Who handled the chest compression?
16 A. Jeez, I don't remember.	16 Was that you, or was that Dr. Kerr?
17 Q. Does any case stand out in your mind	17 A. I don't remember.
18 that you can say, yes, Mr. Mishkind, I remember?	18 Q. Now, you did a TEE at that time,
19 A. We have almost 18,000 heart 20 operations. I've had almost every complication	19 correct?
20 operations. I've had almost every complication 21 you can imagine at one time or another, so this	20 A. Yes. 21 Q. It showed hypokinesia?
22 is not one of those common things that you	21 Q. It showed hypokinesia? 22 A. Yes.
23 expect to see.	22 A. Tes. 23 Q. Was it of the left ventricular wall?
24 Q. What is it, in your opinion, that	24 A. Yes.
25 caused the patient to go into defib at the time,	25 Q. From a pathophysiology standpoint,
· · · · · · · · · · · · · · · · · · ·	
Page 46	Page 48
1 at or around the time of closure which I show at	1 what caused that?
2 about 10:23?	2 A. Well, the concern was that she was
3 A. It appeared that she had an acute	3 not getting a normal blood supply to her left
4 dissection of her left main coronary artery.	4 ventricle. I suspected something was the matter
5 Q. What caused the acute dissection?	5 with her left coronary artery, and I put her
6 A. Lassume that I don't know, to be 7 honest with you. You know, she we placed	6 back on the pump and reexplored that area.
7 honest with you. You know, she we placed 8 sutures around the orifice of it. Whether that	7 Q. Was this secondary to the 8 dissection?
9 tore part of the intima of the artery and it	
10 went on to dissect, I don't know. She came off	9 A. Yes, I think it was. 10 Q. Now, why was the distal anastomosis
11 the pump initially fine, which she would not	11 and the left main anastomosis taken down at that
12 have done had she had a dissection.	12 time?
1.3 So I assume the dissection must have	13 A. Because you can't get to the left
14 taken place as the blood pressure got higher and	14 main to see what the problem is until you take
15 she came off the heart-lung machine.	15 down the distal anastomosis.
16 Q. When she is on the heart-lung	16 Q. After checking for the area of
17 machine, what position is she in bodywise?	17 dissection, then you had to reanastomose the
18 A. Lying on her back. 19 Q. I'm sorry?	18 area?
 Q. I'm sorry? A. Lying on her back. 	19 A. Yes.
20 A. Lying on her back. 21 Q. She's lying on her back, okay. And	20 Q. Do you use a different technique
22 when she came off the machine?	21 when you have to reanastomose now for a second22 time during the first operative procedure?
23 A. She's still lying on her back.	23 A. No.
24 Q. What time frame are we talking about	24 Q. What is the technique that's used to
25 from the time that she came off the heart-lung	25 reanastomose?

12 (Pages 45 to 48)

[
Page 49	Page 51
1 A. It's a running proline suture.	I MR. MEADOWS: Here you go
2 Q. Literally, is it done by hand?	2 (indicating).
3 A. Yes.	3 A. It looks like she went to sleep at
4 Q. Were you doing the suturing?	4 10:00 and left the operating room at roughly
5 A. Yes.	5 3:00.
6 Q. Do you always do the suturing?	6 Q. So the total procedure wasn't
7 A. Yes.	7 extended that drastically by these
8 Q. So Dr. Kerr would not have been	8 complications, but by another hour perhaps?
9 doing this? 10 A. No.	9 A. Probably longer than that, but it
10 A. No. 11 Q. You indicate that the	10 was extended.
12 transesophageal echo was suspicious for no flow	11 Q. You say you have experienced with 12 this type of surgery two episodes of ventricular
13 down the left main. Again, what was your	
14 concern at that point as to the cause for that?	13 fib like this on prior aortic valve 14 replacements?
15 A. She had a dissection. That was my	15 A. Yes.
16 concern.	16 Q. Did you have any options when after
17 Q. Again, that's all part and parcel of	17 the cannulas were removed and she went into
18 the dissection?	18 V-fib and didn't respond initially you recall
19 A. Yes.	19 she didn't respond to the defibrillation, and
20 Q. There were two episodes of	20 that's the point in time where the incision was
21 ventricular fibrillation during this procedure;	21 lengthened; do you recall that?
22 were there not?	22 A. Uh-huh.
23 A. Yes. She didn't have normal	23 Q. Were there any other options that
24 contraction after I did the one graft to the	24 you had short of resorting to an open sternotomy
25 circumflex, so I did the second one to the	25 at that point?
Page 50	Page 52
1 diagonal.	Page 52 i A. Not in doing bypass grafts. I had
 diagonal. Q. Had you ever encountered the 	
 diagonal. Q. Had you ever encountered the multiple, and I don't mean to state that there 	i A. Not in doing bypass grafts. I had
 diagonal. Q. Had you ever encountered the multiple, and I don't mean to state that there were a lot of complications, but a number of 	i A. Not in doing bypass grafts. I had 2 to do bypass grafts. I had to enlarge the
 diagonal. Q. Had you ever encountered the multiple, and I don't mean to state that there were a lot of complications, but a number of complications similar to what you encountered 	 A. Not in doing bypass grafts. I had to do bypass grafts. I had to enlarge the incision. Q. Did you know at that point when she was not responding to the defibrillation that
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13 (Pages 49 to 52)

April 15, 2003

	1
Page 53	Page 55
 Page 53 Q. Are there techniques that you have available in your arsenal in doing this type of surgery to minimize the likelihood of a dissection taking place? A. Well, we're pretty careful with our sutures. That's the main thing. Q. If one is not careful with the suturing, can that precipitate a dissection? MR. MEADOWS: Objection. A. Yes, it could, but I'm not sure we know what caused the dissection in this lady. Q. Can you rule out the sutures as being a cause of the dissection? A. No. Q. Are you able to come up with anything that's more likely to be an explanation of the dissection in this case? MR. MEADOWS: Objection. A. Well, I think you have to figure that this is a pretty unusual complication in a lady who did have an enlarged aorta suggesting that she did not have normal tissues. Q. So they were more friable? A. One would assume so, yes. Certainly 	 Page 55 1 then, because I am never sure whether you can 2 completely obliterate the dissection, I elected 3 to go ahead and do a coronary bypass on top of 4 that for surety, to ensure she had blood supply 5 to her heart. 6 Q. Would you agree that it is the 7 desired intent when doing this surgery to avoid 8 causing the dissection? 9 A. Yeah. I think I agree with that. 10 Q. I suspected that you would. Have 11 you had dissections in AVRs before? 12 A. Yes. 13 Q. Have you had dissections in aortic 14 valve replacements where they were caused by the 15 sutures? 16 A. I've had dissections where I didn't 17 suture, and I've had dissections where I did 18 suture. 19 Q. Let's talk about the cases where you 20 did suture. Were you able to determine whether 21 or not the suturing was the cause of the 22 dissection? 23 A. No. 24 Q. In some of those cases, were you 25 able to come up with other explanations for the
 Page 54 Q. Again, I'm trying to look at a differential in terms of the cause of dissection aside from sutures. Whether she had normal tissue or more friable or thinner tissue, carefully performed are there any explanations for a dissection that you can think of that would be more likely than sutures? A. No. MR. MEADOWS: Other than what he just told you. You just asked that question. He gave you an answer. MR. MISHKIND: Okay. That's fine. I think the record will be clear. Q. The sutures that were inserted, you did the suturing, correct? A. Yes. Q. When the dissection occurred, it indicates that you had to reanastomose the area. Did you remove the sutures? A. Yes. Q. Were you able to determine whether or not the sutures most likely caused the dissection? A. I couldn't determine. She had a 	 Page 56 dissection? A. Yeah. Q. In those other cases, what were some of the explanations? A. Coronary profusion cannulas. It's a fairly well-recognized cause of that. Q. That's not the case in Laura's situation? A. I don't know. Q. You don't have an opinion to a reasonable degree of probability that that's what caused her dissection? A. It's certainly one of the recognized causes of dissections of the coronary arteries. Q. But again, in this case can you say to a probability that's what caused hers? A. I can't say what caused hers. I don't know what caused that. Q. Besides what you've just explained and the suturing, what else have you encountered that are causes of dissection? A. Well, it's or are that I've only seen about three of them, so I really can't tell you that. Q. Why is it so rare, in your

14 (Pages 53 to 56)

Page 57	Page 59
1 experience, that dissections don't happen?	1 Q. I'm sorry, sir?
2 A. Well, we don't sew inside the	2 A. The only sign that I'm aware of of
3 coronary arteries, so you would have to assume	3 inadequate anastomosis is bleeding, and we don't
4 that you know, a dissection does begin within	4 close patients when they are bleeding.
5 the artery, so it's unlikely that you're going	5 Q. Did you have any discussion with the
6 to have disruption of the lining of the coronary	6 family in between the first surgery and the
7 artery. Sutures don't go in there.	7 second?
8 Q. About two hours later she had to be	8 A. I don't remember. I generally call
9 brought back for surgery secondary to bleeding,	9 people immediately after the patient is off the
10 true?	10 heart-lung machine.
11 A. Yes. 3.5 percent of the patients	11 Q. You have no reason to believe that
12 come back for bleeding.	12 didn't take place in this case?
13 Q. Were you present at the time that	13 A. Idon't.
14 the patient was transferred at the end of the	14 Q. As to what you said to Laura's
15 first surgery to the intensive care unit?	15 husband or any family members
16 A. I don't remember.	16 A. I don't remember.
17 Q. Normally, with this type of surgery	17 Q. You just can't recall that?
18 would there be a point in time that you would	18 A. I don't.
19 turn the matter over to your assistant?	19 Q. The nature of your conversation in
20 A. Yes.	20 terms of what happened and why the surgery was
21 Q. Again, without specifically	21 complicated, that's not reflected in any of your
22 recalling this case, what would be your custom	22 notes in terms of you discussed it with the
23 and practice in terms of when you would turn the	23 family?
24 case over, especially with the complications you	24 A. No.
25 had encountered?	25 Q. I know we've touched on this, but
Page 58	Page 60
A. When the patient is hemodynamically	I before the aortic valve replacement surgery was
2 stable, the tubes are out, they are off the	2 started, based upon her underlying coronary
3 heart-lung machine, bleeding is stopped, and	3 pathology you did not anticipate the need to do
4 you're ready to close the chest.	4 any type of coronary artery bypass surgery had
5 Q. How do you go about making certain	5 the AVR gone without incident, true?
6 that the reanastomosis is secure and that there	6 A. That's correct.
7 is no bleeding at the time that the closure is	7 Q. Are the risks associated with aortic
8 done?	8 valve replacement, intraoperative risks, the
9 A. We suck, we look, and we put sponges	9 same or different than the risks associated with
10 in and wait until they come out without blood on	10 mitral valve replacement?
11 them. We don't close them when they're	11 A. Different.
12 bleeding.	12 Q. Are there greater intraoperative
13 Q. You would agree that the standard of	1.3 risks, or are there less intraoperative risks
14 care, especially after reanastomosing an area,	14 for AVR versus mitral valve?
15 is to make sure that there are no signs that	15 A. The mortality rate is higher.
16 there is a bleed from the anastomotic site,	16 Q. For what?
17 true?	17 A. Aortic valve.
18 A. We don't close people when they are	18 Q. I'm sorry, sir?
19 actively bleeding.	19 A. For aortic valve.
20 Q. If there are signs that there may be	20 Q. What is the mortality rate for
21 inadequate reanastomosis, you need to make sure	21 mitral valve?
22 that you secure the area so as to prevent a	22 A. Three-tenths of 1 percent.
23 bleed during the immediate postoperative period?	23 Q. Is this the nationwide rate or your
23 bleed during the immediate postoperative period?24 A. The only sign I know of of an	24 personal?
23 bleed during the immediate postoperative period?	

15 (Pages 57 to 60)

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	Page 61		Page 63
2 pro 3 4 preu 5 ster 6 regu 7 she 8 con 9 thau 10 surg 11 12 13 hea 14 virtu 15 16	 a is about three or four times that for both cedures. Q. Without going through Laura's operative history, you've told us about her nosis, you've talked about some of the urgitation and things of that nature, but was in your opinion at increased risk for nplications secondary to dissection more so n any other patient undergoing this type of gery? A. No. Q. The time that she was on the rt-lung machine was obviously increased by ue of having to reanastomose the area, true? A. Yes. Q. Let's jump ahead to the second gery. How did you get called; do you recall t? A. No. Q. Obviously, someone beeped you and 	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 the homograft? A. I don't know what that would be, no. Q. If you didn't perform the surgery, obviously it would have been Dr. Kerr, true? A. Yes. Q. Simply because you signed it at the end, as you did on the other one, doesn't mean that A. Right. Q you were present for the surgery, true? A. Right. Q. Did you see the sine angiograms before the surgery was done? A. I'm sure I did. Q. Did you make any comment at all in the hospital records as to what the findings were? A. No. Q. Understanding that you may or may not have been present for the second surgery, tell me what your understanding is as to the
24 25	A. I don't remember the details of it.Q. Well, the second surgery has you as	24 25	=
	Page 62		Page 64
2 3 4 5 1 dia 6 the 7 8 the 9 10 ope 11 12 corr 13 14 15 tellin 16 surg 17 18 19 20 21 have 22 23	 surgeon and Dr. Kerr as the assistant. A. Yes. Q. Did you do that surgery? A. I don't remember. If it says I did, d. I have no memory. I have no memory of second operation. Q. You signed it, but Dr. Kerr dictated report. A. My residents dictate all my trative notes. Q. The same as for the first one, rect? A. Yes. Q. But in all fairness, what you're ng me is that you don't remember the gery to repair the bleeding point A. I don't. Q in Laura Adams? A. No. Q. Am I correct that you may or may not e done the surgery? A. You're correct. Q. Is there any way for us to be the surgery of some document as to whether or you were the surgeon that did the repair of 	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 anastomotic site. Q. Was that the area where there was the dissection? A. No. Q. Was there a dissection of the left main coronary ostia? A. Yes. Q. What caused the dissection of the left main coronary ostia? A. I think we just talked about that. Q. Was that during the first surgery? MR. MEADOWS: Objection. You went through that whole series. A. We just went through the whole business about the dissection of the left main coronary. Q. I thought I asked you, and maybe I misunderstood what you explained in terms of the reason that she had the bleed. A. She had the bleed from the distal anastomosis of the aorta, from the homograft to the distal aorta, which is not related to the coronary ostia. They are different sites. Q. That's what I want to make sure I

16 (Pages 61 to 64)

Page 65	Page 67
 dissection of the left main coronary ostia was A. A different surgical site. Q. That was surgery number one, correct? A. Do you understand what a homograft looks like? Q. I do, yes. A. The anastomosis to the left main is in a different site than is the distal anastomosis where she was bleeding. Q. Again, maybe I'm making my question more complicated than I need to, but the bleeding that took her back into the second surgery was a different location than the dissection that occurred during the first surgery? A. Yes. Q. Okay. That's all I meant. Obviously, I convoluted my question. I just wanted to make sure that we were talking about two different sites. In the operative report it says that 	 first surgery? A. Most commonly a patient gets hypertensive. Q. How does one monitor that to appreciate any potential of hypertension? A. We have an arterial line, and we constantly measure the blood pressure. Q. Do you know whether she was being monitored? A. I'm sure she was. Q. What other steps do you take as a surgeon to minimize the potential for bleeding from the distal anastomotic site at the time of closure during the first surgery? A. I'm sorry. I don't understand your question. Q. That's all right. Every once in a while it's confusing. What steps do you take to minimize the potential for a bleed from an anastomotic site? A. You want to know how I do the technical to do the anastomosis?
 23 In the operative report it says that 24 she had excessive bleeding from her chest tubes. 25 Can you explain that to me? Why would there be 	2.3 technical to do the anastomosis? 24 Q. That's probably going to be the 25 easiest way to explain it.
 Page 66 excessive bleeding from the chest tubes? A. Anybody that bleeds more than 300 or 400 cc's we consider abnormal and take them back to the operating room. Everybody bleeds some from their chest tubes. That's why we leave them. Q. The operative report dictated by Dr. Kerr, it says that the distal anastomotic site of the homograft did appear to have a bleeding point coming from the posterior aspect which was repaired with a single 4-0 pledgeted proline stitch. Would you have used a 4-0 pledgeted? It's standard to use? A. (Indicating.) Q. In terms of the reason that she developed a bleeding point at the posterior aspect when she didn't have a bleed at the time of closure, can you explain that to me? A. I can't. Q. What are some of the potential causes for a bleed from the distal anastomotic 	 Page 68 A. I use a 4-0 proline, large bites close together. I evert the distal anastomosis so I get double layers of the distal aorta. After it's all finished, we check to make sure there's no bleeding. Q. Have you ever encountered, ever encountered, within a two-hour period a bleed from a distal anastomotic site on one of your cases? A. Yes. A. In the last 18,000? Q. Yes. A. I'm not sure I can tell you. I can tell you that. Q. I'm being very specific, though, in terms of the distal anastomotic site. A. I had one yesterday. Q. Within two hours? A. It was a bleeding between sutures. D. Do you know why that happened?

17 (Pages 65 to 68)

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	Page 69		Page 71
1	A. I don't.	1	Q. That's a yes?
2	Q. Are there steps that you should have	2	A. Yes.
3	taken to have minimized the likelihood of that	3	Q. Did the reopening of Laura's chest,
4	happening?	4	in your opinion, increase her risk for
5	MR. MEADOWS: Objection.	5	infection?
67	A. I thought I did.	6	A. No.
8	Q. Since this is not something that has never happened to you before, I presume over	7	Q. Why?
9	time you analyze why a bleed occurs from a	9	A. Why do you think it would?Q. Doesn't the reopening of a chest
10	distal anastomotic site, true?	10	twice for open heart surgery or a sternotomy,
11	A. Uh-huh.	11	doesn't that increase the potential for
12	Q. That's a yes?	12	infection?
13	A. Yes.	13	A. Not in our experience.
14	Q. And you take steps to either improve	14	Q. Are you aware of any literature that
15	on your technique or to minimize this potential	15	would speak to the contrary?
16	complication from occurring, correct?	16	A. No.
17	A. Right.	17	MR. MEADOWS: Objection.
19	Q. I take it that's the standard of care, to minimize and to appreciate the risk of	18 19	Q. So your experience is that the
20	this happening, true?	20	reopening of the chest didn't put her at any greater risk of development of infection?
21	A. Yes. I would suspect that there's	21	A. That's our experience.
22		22	Q. By the way, do you know Dr. Tyrone
23	this surgery who hasn't had bleeding from an	23	
	anastomotic site. This is one of the	24	A. Yes.
25	complications of surgery, is bleeding, and it	25	Q. How do you know him?
1 2 3 4 5 6 7 8	 happens from all sorts of locations. Q. Now, aside from the bleed from the distal anastomotic site, were there any other complications that resulted in her having to go back in for surgery? A. No. Q. What was done, whether it was you or Dr. Kerr or both, at the time of the second 	2 3 4 5 6 7 8	 A. Professionally. Q. Have you talked to him about this case? A. No. Q. Are you aware of the fact that he has written a report in connection with this case? A. No.
9	surgery?	9	Q. Did you suggest him as an expert on
11	A. One stitch was placed that stopped the bleeding.	10 11	behalf of the Clinic? A. No.
12	Q. Did she have to be put back on the	12	Q. When you say you know him
13	heart-lung?	13	professionally, that's sort of a loose term.
14	A. No.	14	It's like me saying I know Mr. Meadows
15	MR. MEADOWS: Off the record.	15	professionally.
	(Discussion off the record.)	16	Have you lectured with him?
16			A. Yes.
17	Q. When the second surgery was	17	
17 18	Q. When the second surgery was performed, the chest had to be reopened, the	18	Q. On how many occasions have you
17 18 19	Q. When the second surgery was performed, the chest had to be reopened, the sternum was reopened, correct?	18 19	Q. On how many occasions have you lectured?
17 18 19 20	Q. When the second surgery was performed, the chest had to be reopened, the sternum was reopened, correct? A. Yes.	18 19 20	Q. On how many occasions have you lectured?A. With him? He has lectured here.
17 18 19 20 21	 Q. When the second surgery was performed, the chest had to be reopened, the sternum was reopened, correct? A. Yes. Q. At that time Dr. Kerr or you 	18 19 20 21	 Q. On how many occasions have you lectured? A. With him? He has lectured here. I've lectured in Toronto.
17 18 19 20 21 22	 Q. When the second surgery was performed, the chest had to be reopened, the sternum was reopened, correct? A. Yes. Q. At that time Dr. Kerr or you evacuated the clot that had formed around the 	18 19 20 21 22	 Q. On how many occasions have you lectured? A. With him? He has lectured here. I've lectured in Toronto. Q. He has invited you; you've invited
17 18 19 20 21 22	 Q. When the second surgery was performed, the chest had to be reopened, the sternum was reopened, correct? A. Yes. Q. At that time Dr. Kerr or you evacuated the clot that had formed around the heart and then evaluated the graft sites, or 	18 19 20 21	 Q. On how many occasions have you lectured? A. With him? He has lectured here. I've lectured in Toronto.
17 18 19 20 21 22 23	 Q. When the second surgery was performed, the chest had to be reopened, the sternum was reopened, correct? A. Yes. Q. At that time Dr. Kerr or you evacuated the clot that had formed around the 	18 19 20 21 22 23	 Q. On how many occasions have you lectured? A. With him? He has lectured here. I've lectured in Toronto, Q. He has invited you; you've invited him?

18 (Pages 69 to 72)

	Dev. 73	I	
	Page 73		Page 75
	place?		Q. Would you agree that the risk of
23	A. He was a visiting professor here a	23	infection increases not only as cardiopulmonary
4	number of years ago, and I was a visiting professor there a number of years ago.	4	bypass time increases, but also as the necessity to reexplore and reanastomose an area increases?
5	Q. Have you and he authored or	5	A. No.
6	coauthored any articles?	6	Q. That's not been in your experience,
7	A. No.		that phenomenon?
8	Q. Have you and he appeared outside of	8	A. That's correct.
9	the Toronto-Cleveland Clinic arena at any	9	Q. How does one quantify the increased
10	symposiums or seminars and presented at the same	10	risk of infection based upon increased
11	time?	11	cardiopulmonary bypass time? Is there some type
12	A. Yes.	12	of quantification?
13	Q. On how many occasions has that taken	13	A. Not that I'm aware of.
14	place?	14	Q. Just that you recognize that the
15	A. We have debated on a couple of	15	longer the time, the greater the risk of
16	occasions.	16	infection?
17	Q. I'm sorry?	17	A. Uh-huh.
18	A. We've debated on a couple of	18	Q. True?
19	occasions.	19	A. Yes.
20	Q. I take it by that that there are	20	Q. Were you the one that prescribed the
21	issues that you and he don't necessarily agree	21	Zinacef?
22	upon?	22	A. It's one of our standard orders.
23	A. That's correct.	23	Q. That's 1.5 grams, and it was q 12
24	Q. What are some of the issues?	24	hours time three?
25	A. We've debated about stentless	25	A. I think that's the standard order.
	Page 74		Dece 70
	-		Page 76
	valves.		I'd have to look. I don't remember.
23	Q. What is your position on stentless	2	Q. With the increased pump time, are
4	A. I developed one for the Edwards	3	there occasions where you will modify those
5	A. I developed one for the Edwards Company that I've never used or implanted, and	45	standing orders?
6	he developed one.	6	A. No.
7	Q. I'm sorry?	7	Q. So even though there's an increased
8	A. He developed one that's manufactured	8	risk of infection, the standing orders for Zinacef, 1.5 grams q 12 hours times three,
, õ	by St. Jude that he uses or has used.	9	remains without modification?
10	Q. When is the last time that you and	10	A. Yes.
11	Dr. David had any contact?	11	Q. Have you reviewed the postoperative
12	A. Let's see, three months ago.	12	records?
13	Q. What was the occasion?	13	A. Yes.
14	A. I'm trying to think. It was no,	14	Q. Have you reviewed the records to
15	it was two months ago. I saw him in Miami, and	15	determine when you last appear to have been
16	we were both speaking at a meeting.	16	involved actually by way of making some type of
17	Q. So it's your testimony, Doctor, that	17	a note in the record?
18	the fact that she had undergone surgery followed	18	A. I don't think there is any notes in
	by a reoperation in the afternoon for bleeding	19	there by me.
20	did not increase her risk for infection, true?	20	Q. I believe that there may be a
21	A. In our experience that is the case.	21	reference to you seeing the patient.
22	Q. Would you agree that the risk of	22	A. I don't think I wrote in the chart,
	infection increases as cardiopulmonary bypass	23	though.
	time increases?	24	Q. But would you agree that there's a
25	A. Yes.	25	reference to you seeing the patient I think on

19 (Pages 73 to 76)

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Page 77	Page 79
1 the 15th?	1 Q. Assuming that there wasn't one, do
2 A. I don't remember.	2 you have any explanation why a decision not to
3 MR. MEADOWS: Can you show him what	3 perform a culture would have been made?
4 you're referring to?	4 A. It was done as a therapeutic
5 MR. MISHKIND: I don't have well,	5 therapy, and it probably didn't look like it was
6 maybe I can.	6 infected.
	7 Q. Even though it's done
8 the records, you did not see any entries made by	8 therapeutically, when you drain fluid, that
9 you?	9 doesn't mean that one can't do a culture on the
10 A. No.	10 fluid, correct?
11 Q. Who from your team was responsible	11 A. Correct.
12 for monitoring the patient during the	12 Q. Do you know of any reason in this
13 postoperative period?	13 case why a culture couldn't have been done on
14 A. Dr. Kerr and my other resident, who	14 the fluid?
15 I don't remember.	15 A. No.
16 Q. Ultimately, would you have been	16 MR. MISHKIND: Did you find the
17 responsible for Dr. Kerr and your other	
18 resident?	
	18 MR. MEADOWS: No.
19 A, Yes.	19 MS. JENNY: I looked for it, Howard.
20 Q. Do you have any recollection of	20 I didn't see it.
21 discussing the case with Dr. Kerr or your other	21 MR. MISHKIND: Off the record.
22 resident during the postoperative period?	22 (Discussion off the record.)
23 A. No.	23 Q. Doctor, according to the hospital
24 Q. There was a thoracentesis that was	24 records, the patient had temperature elevations
25 performed on January 22nd, 1999. Was that done	25 each day after surgery, but blood cultures, at
Page 78	Page 80
1 by your team?	1 least according to my review, were done on
1 by your team? 2 A. Yes.	 least according to my review, were done on January 17th and on January 18th, but no
 by your team? A. Yes. Q. There was a Dr. Marullo. Might that 	 least according to my review, were done on January 17th and on January 18th, but no additional blood cultures were done after that
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20 (Pages 77 to 80)

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I	Page 81		Page 83
	where the most and another with the second second		A BETHE CONTRACTOR STATES AS
	where she was on aspirin, where she was on	1	A. If it's ordered, it should be done.
2	Tylenol, where she also had an increase in her	2	Q. Do you know of anything from what
3	WBC, why a decision was not made after the 18th	3	you've learned by reading Dr. Klein's depo or
4	to do any repeat blood cultures?	4	looking at the hospital records as to why the
5	MR. MEADOWS: Objection to form and	5	CBC was not done prior to discharge?
6	foundation.	6	MR. MEADOWS: Objection.
7	Q. I'm sorry, Doctor. Go ahead.	7	A. I don't know why it wasn't done. I
8	A. I wasn't party to the decision.	8	don't know. Dr. Klein speculated on it. I can
9	Q. Do you know or do you have an	9	only speculate on it.
10	opinion to a probability as to what blood	10	Q. Yours would be double speculation,
11	cultures would have shown had they been done on	11	speculating on what Dr. Klein has speculated?
12	or prior to the date of discharge?	12	
13		13	A. I guess.
11	A. I don't think you know what blood		Q. There was some suggestion in the
14	cultures will show until you do them,	14	deposition of Dr. Klein that he felt that the
15	Q. So you don't have an opinion based	15	patient was anxious to get home, back to
16	upon the totality of this case as to whether or	16	Connecticut. Do you have any evidence that you
17	not the blood cultures would have been positive?	17	can rely upon to say that you concur with that?
18	A. I don't know.	18	A. I wasn't party to any of that
19	Q. There was also an order for a repeat	19	portion of the hospital decision.
20	CBC that was ordered on January 24th but, at	20	Q. The fact that this was your patient
21	least according to what I've gathered from	21	that had to have two surgeries within a short
22	Dr. Klein's depo and the records, there doesn't	22	period of time on the 14th and then had elevated
23	appear to be any evidence that that CBC was	23	temperatures, she had an elevated white blood
24	done, and make that an initial statement.	24	count, she had the fluid drain from the
25	Do you recall, first, seeing the	25	thoracentesis and other symptoms that were going
	bo you recury may seeing the	2.5	cioracentesis and other symptoms that were going
	Page 82	1	Page 84
	rage oz		Page 84
1	discussion in Dr. Klein's depo about that?	1	on, is there a reason why you were not
2	A. Yes.	2	consulted
3	Q. Do you recall seeing that there was	3	A. She had
4	an order for a CBC on the 24th?	4	Q. Let me finish first, and then you
5	A. I haven't seen that order.	5	can go ahead.
6	Q. You certainly have no reason to take	6	
7	issue with what the record says or what	7	Is there any reason why you were not
8	Dr. Klein indicated, true?		consulted as it relates to the decision whether
9		8	this patient was appropriate to be discharged
11	A. No.	9	given the fact that she was going to be going
10	Q. If a CBC is ordered on a patient	10	back to Connecticut as opposed to staying in the
11	that is being discharged or the plan is to	11	Cleveland area?
12	discharge the patient and the patient has	12	MR. MEADOWS: Objection to form and
13	continued to have elevated temperatures, has an	13	foundation. Go ahead.
14	increased white blood count, would you agree	14	A. She had a normal echocardiogram, she
15	that it would be reasonable and prudent to	15	had normal blood cultures, she had a
16	perform the CBC on the patient certainly before	16	defervescent temperature, and she was clinically
17	the patient is discharged from the hospital?	17	getting better. It was a judgment call that she
18	MR. MEADOWS: Objection.	18	was discharged. I didn't make that call.
19	A. I think it's reasonable to do it and	19	Q. Would you have made that call?
20	reasonable not to do it.	20	A. I wasn't on the spot. I can't say.
21	Q. But if it's ordered and there's an	21	
	SZ, 1303 IFD STATISTICADA SUPPLY SAU	<i>L</i> 1	Q. Would you agree that the
1 22		00	to many own true on the state in the state of the state o
22	indication for it, would you agree that it	22	temperatures that she had were suppressed to
23	indication for it, would you agree that it should be done?	23	some degree by the 81 milligram aspirins that
23 24	indication for it, would you agree that it should be done? MR. MEADOWS: Objection, asked and	23 24	some degree by the 81 milligram aspirins that she was taking on a daily basis?
23	indication for it, would you agree that it should be done?	23	some degree by the 81 milligram aspirins that
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21 (Pages 81 to 84)

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	Page 85		Page 87
5			
	Q. And also the Tylenol given on seven occasions?	1 2	A. Everybody has pain after heart
3	A. It's possible.	3	Q. Would you agree that severe
4	Q. She also received a dose of Percocet	4	persistent pain and incisional tenderness may be
5	on one occasion. Do you recall that?	5	an indication of a mediastinal infection?
6	A. Everybody gets Percocet after heart	6	A. Yes.
7	surgery. They hurt.	7	Q. Would you agree that her white blood
8	Q. She also had multiple IV doses of	8	count was increasing before discharge?
9	Toradol, correct?	9	A. Yes.
10	A. Yes. I assume she did if you say	10	Q. And that she had persistent at least
11	so.	11	low grade temperatures during the postoperative
12	Q. That is used for pain control,	12	period?
13	correct?	13	MR. MEADOWS: Objection to form,
14	A. Yes.	14	vague.
15	Q. It's a nonsteroidal	15	A. She did have temperatures up until
16	anti-inflammatory?	16	she went home, but it was gradually coming down,
17	A. Yes.	17	and everybody has temperatures after heart
18	Q. The anti-inflammatory property of	18	surgery.
19	the drug may also mask temperature spikes, true?	19	Q. If a CBC with a differential had
20	A. It's possible.	20	been done on the 24th, would that have shown
21	Q. She appears to have what I would	21	whether there were indications of an infectious
22	describe as an unusual amount of incisional pain	22	process?
23	for a patient ten days post-op. Would you agree	23	A. I don't know.
24	with that?	24	Q. At any time during the postoperative
25	A. I wasn't daily evaluating her pain,	25	
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	Page 86		Page 88
	and I think it's probably hard for you to	, i	requested?
2	and I think it's probably hard for you to evaluate it, too.	2	requested? A. I don't know. I don't think so.
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22 (Pages 85 to 88)

Page 89	Page 91
 Q. And that she was continuing to have persistent low grade temperatures during the postoperative period up to and including the 22nd? A. Yes. Q. Are those findings consistent with a potential infectious process? MR. MEADOWS: Objection to form, vague. A. They're consistent with a lot of things, one of which is a normal postoperative course, and one of them is infection. Q. So infection certainly could not be ruled out as of January 22nd, true? A. True. Q. The thoracentesis being performed on January 22nd was done because of pleural effusions? A. Yes. Q. Pleural effusions may be associated with mediastinal infections, true? A. Yes. Q. Had they cultured the fluid, would you agree that if in fact there was a mediastinal infection, there was enough fluid 	 probability as to whether it would have been reasonable and prudent to send Laura Adams home had she been cultured from the thoracentesis and an infection diagnosed, knowing that as of January 24th her white blood count was still elevated and knowing on the 24th that she still had a low grade temperature? MR. MEADOWS: Objection to foundation. A. I don't understand what your question is. Q. What circumstances would you discharge a patient after a thoracentesis is done on day eight following this type of surgery where there is evidence of an infection? A. I still don't understand your question. Q. You say that sometimes we send patients home after a thoracentesis. Where there is an infection A. Absolutely we do. About half our patients on the floor have a thoracentesis. Q. When a patient is going to be going from Cleveland to Connecticut A. Yes.
 Page 90 that was drained during this therapeutic thoracentesis that there would have been a sufficient quantity of fluid to perform a culture on the fluid? MR. MEADOWS: Objection to form and any assumptions within the question. A. Do you want to ask that again? I'm a little vague as to what you're asking me. Q. Sure. A. Was there enough fluid to culture? Q. Yes. A. 1,700 cc's, yes. Q. If a culture had been done, I think what you told me before is you don't know whether or not an infection would have been diagnosed, true? A. True. Q. If an infection had been diagnosed based upon the culture, would you agree that the patient most likely would have needed to remain in the hospital for further treatment? MR. MEADOWS: Objection. A. We don't send patients home with infections. Q. Do you have an opinion to a 	Page 921Q you need to be more concerned2about the medical management of that patient as3opposed to someone that's going to be staying in4the Cleveland area and can be seen by you or one5of your colleagues, true?6MR. MEADOWS: Objection.7A. I think we're equally concerned8about everybody we send home.9Q. If you have a concern about a10patient that has an infection, are there10occasions where you will discharge a patient but12tell them that they should stay in the Cleveland13area for 24 or 48 hours before they return to14their homeland, whether it's out of the country15or in the country?16MR. MEADOWS: Objection.17A. It totally depends on the individual18case.19Q. Do you intend to provide an opinion20in this case hypothetically if the thoracentesis21had been performed and a culture obtained on the22fluid and an infection was diagnosed whether it23would have been reasonable to discharge Laura24Adams two days later on January 24th?25MR. MEADOWS: Objection to form.

23 (Pages 89 to 92)

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	Page 93		Page 95
Γ	A Tall man where she manual a to and		
	A. Tell me what the question is again.		Q. I'm sorry?
2	Q. Sure. If the thoracentesis had been	2	A. I don't know. I wasn't the
3	done and a culture obtained and that culture	3	decision-maker, and I wasn't looking after her
4	came back indicating that she had an infection,	4	at this point.
5	do you intend to provide an opinion at trial	5	Q. I take it you don't have an opinion,
6	that in that setting it would have been	6	considering you weren't the decision-maker,
7	reasonable to discharge the patient two days	7	whether it was or was not appropriate to
8	later?	8	discharge Laura on January 24th?
9		1	
1F -	MR. MEADOWS: Objection.	9	A. I do not have an opinion.
10	A. The assumption is that she the	10	Q. Do you have an opinion as to whether
11	question is, am I going to give an opinion at	11	it was appropriate to clear her to return to
12	trial?	12	Connecticut rather than stay in the area,
13	Q. Well, let's start with today. Do	13	assuming it was appropriate to discharge her, on
14	you have an opinion whether it would have been	14	January 24th?
15	reasonable and acceptable care to have	15	A. No.
16	discharged Laura if the thoracentesis had been	16	
If			Q. You indicated that she would have
17	done with a culture obtained and the culture	17	been in much more pain had she had an empyema.
18	returned indicating that she had an infection?	18	If a culture had been done on the thoracentesis,
19	MR. MEADOWS: Objection.	19	do you have an opinion as to what it likely
20	A. If she had an empyema, we probably	20	would have shown?
21	would not have sent her home, and she would have	21	A. No.
22	been a hell of a lot sicker. She wouldn't have	22	Q. At the time of the autopsy - you've
23	even been able to stand up. She would have been	23	seen the autopsy, haven't you?
24	too sick.	24	
25			
23	Q. Short of an empyema, what else would	25	Q. Do you have a copy of it there?
}		.	
1		1	
	Page 94		Page 96
Y 7	-		
····· (you have		A. Yes.
2	you have A. That is the definition of an	2	A. Yes.Q. I'm going to get it in front of me,
2 3	you have A. That is the definition of an empyema, fluid in bacteria in the pleural		A. Yes.
2 3 4	you have A. That is the definition of an empyema, fluid in bacteria in the pleural space, that's an empyema.	2	A. Yes.Q. I'm going to get it in front of me,and you can certainly feel free, if you want to,
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24 (Pages 93 to 96)

I	
Page 97	Page 99
1 they're related.	1 here in the hospital, and she would have died,
2 Q. Okay. So simply because she had	2 too.
3 gram-positive cocci bacteria, there's no reason	3 Q. If she had ruptured her aorta in the
4 to conclude that had a thoracentesis been done	4 hospital, wouldn't she have had a better
5 the bacteria would have been discovered?	5 likelihood of survival being in the hospital as
6 A. Absolutely.	6 opposed to being at home?
7 Q. What about if a CBC had been done on	
8 January 24th with a differential, do you have an	
, ,	8 A. Pretty small.
· · · · · · · · · · · · · · · · · · ·	9 Q. So you think that she was doomed
10 have been discovered?	10 regardless?
11 MR. MEADOWS: Objection, calls for	11 A. I didn't say that, did l?
12 speculation. It's been asked and answered.	12 Q. Well, you said that if she had a
13 MR. MISHKIND: Well, actually not	13 gram-positive cocci bacterial infection that
14 this particular one.	14 caused a rupture of her aorta
15 MR. MEADOWS: Yes, it has.	15 A. I said if she ruptured her aorta in
16 MR. MISHKIND: I appreciate it, but	16 the hospital, people with aortic stenosis very
17 go ahead, Doctor.	17 seldom survive if they've had a cardiac arrest
18 A. A CBC wouldn't have discovered the	18 on the floor.
19 bacteria.	19 Q. What types of symptoms do you look
20 Q. What would have had to have been	20 for in a patient that has a gram-positive cocci
21 done, a blood culture?	21 infection that indicates a change in hemodynamic
22 A. She probably would have had to have	22 status?
23 a culture of her aorta.	23 A. I've never seen a gram-positive
24 Q. Are you suggesting blood cultures	24 infection on an aorta.
25 would not have detected it?	25 Q. So when you look at this autopsy
	2.5 Q. 50 when you look at this autopsy
Page 98	Page 100
Page 98	Page 100
1 A. It's possible.	1 where it says acute suppurative necrotizing
 A. It's possible. Q. It's possible that it would have 	 where it says acute suppurative necrotizing bacterial aortitis, you've never seen that
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Page 101	Page 103
1 A. If I had never seen one before or	I hospital and the conclusion was that she had an
2 read of one before, it would be hard to suspect	2 infection, would you have gone back in and
3 one, wouldn't it?	3 removed the homograft?
4 Q. Except you know what the signs and	4 A. I never would have suspected that it
5 symptoms are of an infection even though you	5 was infected because I had never heard of it
6 might not be able to isolate exactly where the 7 infection is within a patient's body, correct?	ó before.
7 infection is within a patient's body, correct? 8 A. How am I going to treat it? The	7 Q. What recommendations would you have 8 made from a cardiothoracic standpoint if in fact
9 only way you're going to treat it is get it out	
10 of there. How are you going to diagnose it?	 9 all the parameters indicated that the patient 10 had an infection and may have a mediastinal
11 You've tried with blood cultures, you've tried	11 infection?
12 with echo, and no one has ever seen it before,	12 MR. MEADOWS: Objection.
13 so how are you going to suspect it?	13 A. I don't know. It's pure
14 Q. The fact that she had five blood	14 supposition.
15 cultures, the 17th times three, the 18th times	15 Q. Would you have at least considered,
16 two, that were negative, that doesn't mean that	16 with evidence suggesting a mediastinal
17 she wouldn't have had positive blood cultures on	17 infection, would you have at least considered
18 the 19th to the 24th, correct?	18 going back in and reexploring the area from the
19 A. True. That's why I do them, because	19 homograft?
20 you don't know.	20 MR. MEADOWS: Objection.
21 Q. Because of the fact that they didn't	21 A. I don't know, but I doubt it since
22 do blood cultures on the 19th through the 24th,	22 I've never heard of it, I've never read of it,
23 we don't know what the blood cultures would have 24 shown?	23 and I've never heard anybody talk about it.
	24 Q. Do you have an opinion as to when
25 A. We don't, and how would we have	25 the proximal right coronary artery occluded?
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Page 102	Page 104
Page 102 1 known to suspect an aortic infection when no one	Page 104 I A. No.
	1 A. No.
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 to what caused her necrotizing bacterial aortitis? A. I don't know what caused it. Q. Do you have an opinion as to what the cause of her death was? A. I don't know. Q. On autopsy the fact that there was a rupture of the aorta measuring 4-by-3 millimeters with 1,000 cc's of blood removed in the ER, aren't those findings clinically consistent with a patient having cardiac tamponade? A. It's possible that it caused cardiac tamponade. Q. Do you know whether the microscopic results from the Cleveland Clinic substantiate that Laura Adams died of infection? A. I don't know whether they do or not. I haven't seen the microscopic results. Q. The healing myocardial infarction at the apex of the heart, I think it says it was over ten days old? 	 A. Lowest risk. Q. What is the incidence of an infection in a homograft? A. I don't know. Q. It's in the literature; is it not? A. I'm sure it is someplace. Q. You are just not familiar with it off the top of your head? A. No. Q. If it had been determined by you or someone else while still in the hospital that she had an infected homograft, would surgical intervention have been the first approach, or would antibiotic treatment have been the first approach? A. I'm not sure I can answer the question. I don't know. Q. Because you've not encountered it? A. I've not encountered it, I have no experience with it, and I'm not aware of any literature about it.
 A. Yes. Q. Do you believe that that myocardial 25 infarction was at the time of the first surgery? 	 Q. If Laura had not ruptured at the aortic arch and if she had not developed necrotizing bacterial aortitis, in other words, had she not died on January 28th, do you have an
 Page 106 A. Yes. Q. So this is what likely occurred at the time that she required the A. Bypass grafts. Q bypass grafts, okay. If an aortic homograft is infected at the time of implantation, what is the probability of a patient having a rupture of the necrotic aortic arch ten days after the implantation? A. I have no idea. Q. Do you know back in 1999 whether the Cleveland Clinic was having any increased incidence of infection with regard to aortic valve replacement? A. I do have an idea. Q. What is that? A. I remember we did do regular bacteriologic cultures and monitoring. Q. Are homografts by definition immune perhaps that's a poor use of the term - from becoming infected? A. No. Q. They are basically lower risk? 	Page 108 1 opinion to a probability as to what her life 2 expectancy would have been? 3 A. It wouldn't have been normal. 4 Q. Normal nowadays is early 80s for 5 Caucasian women? 6 A. Yes. 7 Q. Hers would have been reduced by what 8 percent? 9 A. I don't know. 10 Q. What is your best probability? 11 A. I don't have a guess. 12 Q. Would she have lived into her 70s? 13 A. I don't know. 14 MR. MEADOWS: Objection. 15 Q. Can you state whether she would have 16 lived into her 60s? 17 A. I don't know. 18 Q. All you can say is that she just 19 would not have had a normal life expectancy? 20 A. I can say that pretty definitely. 21 Q. You can't rule out that she would 22 have lived into her 50s or 60s, true? 23 MR. MEADOWS: Objection. 24 A. Yes. I can also tell you that 25 people who don't have any infections and don't

27 (Pages 105 to 108)

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Page 109	Page 111
1 have any complications of their aortic valve	1 the public?
2 have sudden death in the first year after their 3 aortic valve replacement with some regularity.	2 A. No, they are not.
	3 Q. So if I wanted, for example, number
4 Q. What is the percentage of that?	4 21, minimally invasive aortic valve surgery, or
5 A. I can get that for you, but I don't 6 have that with me.	5 24, minimally invasive valve surgery involving
	6 two valves, I would have to ask you and then
7 Q. With regard to the cause of death,	7 hope that you would provide it to me, correct?
8 do you have any opinions that you have not 9 shared with me?	8 A. Correct.
	9 Q. Are these lengthy videos?
	10 A. Very long, a day or two.
11 Q. With regard to the justification or	11 Q. Seriously?
12 the appropriateness of discharging this patient,	12 A. Uh-huh.
13 either to go back to Connecticut or to stay in	13 Q. Are you being serious with me, or
14 Cleveland on an outpatient basis for a period of	14 are you joking?
15 time, are there any other opinions that you have	15 A. I'm joking. They're about eight
16 that you've not shared with me? 17 A. No.	16 minutes.
	17 Q. Are they maintained here at the
	18 hospital?
19 surgery that you performed and then the second 20 surgery that you may or may not have been	19 A. Yes.
5,,	20 Q. Are they for teaching purposes?
· · · · · · · · · · · · · · · · · · ·	21 A. Yes.
22 terms of complications that developed that we 23 have not talked about?	22 Q. I will follow up with a letter to
	2.3 you requesting that. You also have a patent on
	24 minimally invasive cardiac surgery procedures?
25 Q. In terms of discussing the case with	25 A. I do.
I Dr. Rattlife or anyone else as it relates to	
 2 opinions on standard of care or causation 3 issues, other than discussing matters with your 4 attorneys, have you shared with me all the 5 information that you have or have discussed with 6 others? 7 A. Yes. I haven't discussed it with 	 Q. Does that have anything to do with aortic valve replacement? A. Uh-huh. Q. That's a yes? A. Yes. Q. Who is the patent with? A. The Cleveland Clinic owns the 8 patent.
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April 15, 2003

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 remuneration as it relates to the patent that is referenced on page 1 4 for minimally invasive cardiac surgery procedures? MR. MEADOWS: Objection. Don't answer that. MR. MISHKIND: Just for the record, the basis for your objection? MR. MEADOWS: It has got absolutely nothing to do with this lawsuit, and 1 think it's proprietary and certainly is not even reasonably calculated to lead to admissible evidence. MR. MISHKIND: I think it certainly can depending upon what is contained in there and what financial interest he has. MR. MISHKIND: Suffice it to say, 1 disagree with you. I think it is calculated to lead to discovery of admissible evidence, but 1 understand that you're instructing him not to answer, so we'll move on. Q. Doctor, the last question for you, and then your five minutes are up. Your residents who dictate the operative reports, how soon are they to be dictated? 	 A. No. We beat the boys up, and sometimes they don't always behave. Q. But in this situation, this was not in compliance with Cleveland Clinic protocol, correct? A. That's the department's protocol. Q. And it was not in compliance with it, true? A. Right. MR. MISHKIND: Thanks, Doctor. No further questions. MR. MEADOWS: We're going to read it. 28 days? MR. MISHKIND: I didn't say that, but if you ask nicely, I will. (Signature not waived.)
 Page 114 A. They are supposed to be dictated in 24 to 48 hours. Q. Is that standard protocol here at the hospital? A. That's what we tell them to do. They don't always behave. Q. Do you have any explanation in this case as to why the surgical report, second surgical report which you may or may not have been present for, was not dictated until the day after Laura Adams died? A. I never noticed it before. I was not aware of it. Q. The fact that it was dictated 15 days later and a day after her death, you have no knowledge as to that? A. Right. Q. It certainly should have been dictated sooner, correct? A. It should have. Q. That's not in keeping with the procedures at the hospital, true? 	Page 116 1 AFFIDAVIT 2 I have read the foregoing transcript from 3 page 1 through 115 and note the following 4 corrections: 5 PAGE 6 7 7 8 9 10 11 12 13 14 15 16 17

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Page 117	
1 CERTIFICATE	
2 3 State of Ohio,)	
4) \$5:	
5 County of Cuyahoga.) 6	
7	
8 9 i. Cynthia A. Suilivan , a Notary Public	
9 i, Cynthia A. Suilivan , a Notary Public within and for the State of Ohio, duly	
10 commissioned and qualified, do hereby certify	
that the within named DELOS M. COSGROVE, III, 11 M.D. was by me first duly sworn to testify to	
the truth, the whole truth and nothing but the	
1.2 truth in the cause aforesaid; that the testimony as above set forth was by me reduced to	
13 stenotypy, afterwards transcribed, and that the	
foregoing is a true and correct transcription of	
14 the testimony. 15 I do further certify that this deposition	
was taken at the time and place specified and	
16 was completed without adjournment; that I am not a relative or attorney for either party or	
17 otherwise interested in the event of this	
action. I am not, nor is the court reporting 18 firm with which I am affiliated, under a	
contract as defined in Civil Rule 28(D).	
19 IN WITNESS WHEREOF, I have hereunto set my	
20 hand and affixed my seal of office at Cleveland,	
Ohio, on this 2 list day of April 2003.	
22 AJ LEAN LE. SULLE VER 23 Cynthia A. Sullivan , Notary Public	
24 Cynuna A. Sunivan , Notary Public Within and for the State of Ohio	
25	
My commission expires October 6, 2006.	
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2 DEPOSITION OF DELOS M. COSGROVE, III, M.D.	
3	
4 BY MR. MISHKIND:3:7	
5	
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