September 5,2000

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SORIN JAKOB BRENER, M.D. Colvin vs. Keith Kruithoff, M.D., et al.

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 IN THE COURT OF COMMON PLEAS CUYAHOGA COUNTY, OHIO DIANE COLVIN, Administratrix of the Estate of GREGORY COLVIN, deceased. Plaintiff, vs Case No. 388614 KEITH KRUITHOFF, M.D., et al., Defendants. Defendants. DEPOSITIONOF SORIN JAKOB BRENER, M.D. TUESDAY, SEPTEMBER 5,2000 The deposition of SORIN JAKOB BRENER, M.D., the Witness herein, called by counsel on behalf of the Plaintiff for examination under the statute, taken before me, Vivian L. Gordon, a Registered Diplomate Reporter and Notary Public in and for the State of Ohio, pursuantto agreement of counsel, at the offices of The Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, Ohio, commencing at 1:30 o'clock p.m. on the day and date above set forth. 	 SORIN JAKOB BRENER, M.D., a witness herein, called for examination, as provided by the Ohio Rules of Civil Procedure, being by me first duly sworn, as hereinafter certified, was deposed and said as follows: EXAMINATION OF SORIN JAKOB BRENER, M.D. BY MS. TOSTI: Q. Doctor, would you please state your name for us. A. Sorin Brener. Q. Spell your last name. A. B-R-E-N-E-R. Q. What is your home address? A. 25275 Shaker Boulevard in Beachwood, Ohio. Q. Your zip code? A. 44122. Q. Is that a single-family home? A. Yes. Q. Your current business address, is it here at The Cleveland Clinic? A. Yes. Q. Who is your current employer? A. Cleveland Clinic Foundation. Q. What is your title here at The
Page 2 1 APPEARANCES: 2 3 3 On behalf of the Plaintiff Becker & Mishkind 4 BY: JEANNE M. TOSTI, ESO. Skvliaht Office Tower Suite 660 5 1660-West 2nd Street Cleveland, Ohio 44113 6 On behalf of the Defendant Kruithoff, M.D. 7 Bonezzi, Switzer, Murphy & Polito BY: JOHN S. POLITO, ESQ. 8 1400 Leader Building Cleveland, Ohio 44114 6 On behalf of the Defendant Cleveland Clinic 10 BY: STEPHENA. SKIVER, ESQ. 30025 E. River Road 11 Perrysburg, Ohio 43551 12 On behalf of the Defendant Ohio Permanente Roetzel & Andress 13 BY: INGRID KINKOPF-ZAJAC, ESQ. One Cleveland Center 14 1375 East 9th Street Cleveland, Ohio 44114 15 16 17 18 18 19 20 21 22 23	 Page 4 1 Cleveland Clinic, currently? A. Staph cardiologist. Q. Was that the same in 1998? A. Yes. Q. Do you hold any administrative positions at The Cleveland Clinic? A. No. Q. Have you ever? A. No. I don't know exactly what you mean by administrative. Q. Such as the head of the coronary intensive care unit. A. No. Q. Or the head of any particular department. A. No. MR. SKIVER: Try to keep your voice up. Q. When did you first become employed at The Cleveland Clinic? A. I started training in 1989 and have remained at the Clinic ever since. I became staph in 1996. Q. Aside from your employment here at The Cleveland Clinic, do you provide professional

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	Page 5		Page 7
1	services for any other entity?	1	three or four.
2	A. We have an affiliation with MetroHealth Medical Center, and part of my duties	2	Q. Were they for the plaintiff or the defendant in the case?
4	is to provide similar services there.	4	A. I really don't recall all the details.
5	Q. What type of things do you do at	5	Q. Do you recall whether they were for a
6	Metro?	6	medical practitioner or for a patient, the family
7	A. The same thing; coronary intensive	7	of a patient?
8	care unit, cardiac catheterizations and	8	A. Again, these were informal reviews. I
9	angioplasty.	9	believe it was for the medical practitioner.
10	Q. Have you ever had your deposition	10	MR. SKIVER: If you don't know,
11	taken before?	11	doctor, don't guess.
12	A. No.	12	Q. Have you ever done any medical reviews
13	Q. I want to review some of the ground	13	for Mr. Skiver?
14 15	rules for a deposition. I am sure counsel has had a chance to talk with you.	14 15	A. No.
16	This is a question and answer	16	Q. Attorney Anna Carulas? A. No.
17	session. It's under oath. It's important that	17	Q. Mr. Polito?
18	you understand the questions that I am going to	18	A. No.
19	ask you. If you don't understand them, ask me	19	Q. Do you recall who, what attorney you
20	and I'll be happy to repeat them or to rephrase	20	did do the medical reviews for?
21	them; otherwise, ${\tt I}'$ mgoing to assume that you	21	A. No.
22	understood my question and that you are able to	22	Q. In any of the reviews that you have
23	answer it.	23	previously done, did any of them deal with issues
24	I would also ask that you give all of	24	involving infective endocarditis?
25	your answers verbally, because our court reporter	25	A. No.
	Page 6		Page 8
1	cannot take down head nods or hand motions.		Q. Do you recall the allegation of
2	A. Sure.	2	negligence in any of the cases that you reviewed?
3	Q. And at any point, if you would like to	3	A. I did not state that there was
4	refer to the medical records, feel free to do	4	negligence. The issue, because I'm an expert in
5	so. This isn't any type of a memory test.	5	angioplasty, it had to do with the use of this
6	At some point during the deposition,	6	procedure.
7	one of defense counsel may choose to enter an objection. You are still required to answer my	7 8	Q. Now, doctor, your counsel has given me a copy of your curriculum vitae. I would like
8 9	question unless counsel instructs you not to do	9	
			you to please take a look at it, and if you would just identify it for the record for us.
10 11	so. Do you understand those? A. Yes.	10 11	just identify it for the record for us.
10	so. Do you understand those?	10	
10 11	so. Do you understand those? A. Yes.	10 11 12 13	just identify it for the record for us. (Thereupon, BRENER Deposition Exhibit 1 was marked for
10 11 12 13 14	so. Do you understand those?A. Yes.Q. Have you ever been named as a defendant in a medical negligence case?A. No.	10 11 12 13 14	just identify it for the record for us. (Thereupon, BRENER Deposition
10 11 12 13 14 15	 so. Do you understand those? A. Yes. Q. Have you ever been named as a defendant in a medical negligence case? A. No. Q. Now, you have indicated you have never 	10 11 12 13 14 15	just identify it for the record for us. (Thereupon, BRENER Deposition Exhibit 1 was marked for purposes of identification.)
10 11 12 13 14 15 16	 so. Do you understand those? A. Yes. Q. Have you ever been named as a defendant in a medical negligence case? A. No. Q. Now, you have indicated you have never had your deposition taken. Have you ever given 	10 11 12 13 14 15 16	just identify it for the record for us. (Thereupon, BRENER Deposition Exhibit 1 was marked for purposes of identification.) Q. Is that your curriculum vitae that's
10 11 12 13 14 15 16 17	 so. Do you understand those? A. Yes. Q. Have you ever been named as a defendant in a medical negligence case? A. No. Q. Now, you have indicated you have never had your deposition taken. Have you ever given testimony in a medical negligence case? I mean 	10 11 12 13 14 15 16 17	just identify it for the record for us. (Thereupon, BRENER Deposition Exhibit 1 was marked for purposes of identification.) Q. Is that your curriculum vitae that's been marked as Plaintiffs Exhibit 1?
10 11 12 13 14 15 16 17 18	 so. Do you understand those? A. Yes. Q. Have you ever been named as a defendant in a medical negligence case? A. No. Q. Now, you have indicated you have never had your deposition taken. Have you ever given testimony in a medical negligence case? I mean at trial. 	10 11 12 13 14 15 16 17 18	just identify it for the record for us. (Thereupon, BRENER Deposition Exhibit 1 was marked for purposes of identification.) Q. Is that your curriculum vitae that's been marked as Plaintiffs Exhibit 1? A. Yes.
10 11 12 13 14 15 16 17 18 19	 so. Do you understand those? A. Yes. Q. Have you ever been named as a defendant in a medical negligence case? A. No. Q. Now, you have indicated you have never had your deposition taken. Have you ever given testimony in a medical negligence case? I mean at trial. A. No. 	10 11 12 13 14 15 16 17 18 19	just identify it for the record for us. (Thereupon, BRENER Deposition Exhibit 1 was marked for purposes of identification.) Q. Is that your curriculum vitae that's been marked as Plaintiffs Exhibit 1? A. Yes. Q. And are there any additions or
10 11 12 13 14 15 16 17 18 19 20	 so. Do you understand those? A. Yes. Q. Have you ever been named as a defendant in a medical negligence case? A. No. Q. Now, you have indicated you have never had your deposition taken. Have you ever given testimony in a medical negligence case? I mean at trial. A. No. Q. Have you ever acted as an expert in a 	10 11 12 13 14 15 16 17 18	just identify it for the record for us. (Thereupon, BRENER Deposition Exhibit 1 was marked for purposes of identification.) Q. Is that your curriculum vitae that's been marked as Plaintiffs Exhibit 1? A. Yes. Q. And are there any additions or corrections that you would like to make to it?
10 11 12 13 14 15 16 17 18 19	 so. Do you understand those? A. Yes. Q. Have you ever been named as a defendant in a medical negligence case? A. No. Q. Now, you have indicated you have never had your deposition taken. Have you ever given testimony in a medical negligence case? I mean at trial. A. No. 	10 11 12 13 14 15 16 17 18 19 20	just identify it for the record for us. (Thereupon, BRENER Deposition Exhibit 1 was marked for purposes of identification.) Q. Is that your curriculum vitae that's been marked as Plaintiffs Exhibit 1? A. Yes. Q. And are there any additions or corrections that you would like to make to it?
10 11 12 13 14 15 16 17 18 19 20 21	 so. Do you understand those? A. Yes. Q. Have you ever been named as a defendant in a medical negligence case? A. No. Q. Now, you have indicated you have never had your deposition taken. Have you ever given testimony in a medical negligence case? I mean at trial. A. No. Q. Have you ever acted as an expert in a medical negligence case? 	10 11 12 13 14 15 16 17 18 19 20 21	just identify it for the record for us. (Thereupon, BRENER Deposition Exhibit 1 was marked for purposes of identification.) Q. Is that your curriculum vitae that's been marked as Plaintiffs Exhibit 1? A. Yes. Q. And are there any additions or corrections that you would like to make to it? A. No.
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 so. Do you understand those? A. Yes. Q. Have you ever been named as a defendant in a medical negligence case? A. No. Q. Now, you have indicated you have never had your deposition taken. Have you ever given testimony in a medical negligence case? I mean at trial. A. No. Q. Have you ever acted as an expert in a medical negligence case? A. I have reviewed cases before they got to court, as an expert, and I provided my input. Q. How many cases have you reviewed? 	10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	just identify it for the record for us. (Thereupon, BRENER Deposition Exhibit 1 was marked for purposes of identification.) Q. Is that your curriculum vitae that's been marked as Plaintiffs Exhibit 1? A. Yes. Q. And are there any additions or corrections that you would like to make to it? A. No. Q. Doctor, you are currently licensed in the State of Ohio to practice medicine; is that correct?
10 11 12 13 14 15 16 17 18 19 20 21 22 23	 so. Do you understand those? A. Yes. Q. Have you ever been named as a defendant in a medical negligence case? A. No. Q. Now, you have indicated you have never had your deposition taken. Have you ever given testimony in a medical negligence case? I mean at trial. A. No. Q. Have you ever acted as an expert in a medical negligence case? A. I have reviewed cases before they got to court, as an expert, and I provided my input. 	10 11 12 13 14 15 16 17 18 19 20 21 22 23	just identify it for the record for us. (Thereupon, BRENER Deposition Exhibit 1 was marked for purposes of identification.) Q. Is that your curriculum vitae that's been marked as Plaintiffs Exhibit 1? A. Yes. Q. And are there any additions or corrections that you would like to make to it? A. No. Q. Doctor, you are currently licensed in the State of Ohio to practice medicine; is that

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Page 9Page 91Q. You were so licensed also in 1998; is12that correct?23A. Yes.34Q. Are you licensed in any other states?35A. No.56Q. Has your medical license ever been6endocarditis?9Page 9Page1Following Repeat Cardiac Valve Surgery published2in 1994.3Q. Thank you, doctor.4Have you ever given a formal5Following Repeat Cardiac Valve Surgery published6Q. Has your medical license ever been	11
1Q. You were so licensed also in 1998; is1Following Repeat Cardiac Valve Surgery published2that correct?2in 1994.3A. Yes.3Q. Thank you, doctor.4Q. Are you licensed in any other states?4Have you ever given a formal5A. No.5presentation on the subject of infective	
2that correct?2in 1994.3A. Yes.3Q. Thank you, doctor.4Q. Are you licensed in any other states?4Have you ever given a formal5A. No.5presentation on the subject of infective	
3A.Yes.3Q.Thank you, doctor.4Q.Are you licensed in any other states?4Have you ever given a formal5A.No.5presentation on the subject of infective	
4Q. Are you licensed in any other states?4Have you ever given a formal5A. No.5presentation on the subject of infective	
5 A. No. 5 presentation on the subject of infective	
6 Q. Has your medical license ever been 6 endocarditis?	
7 called into question, suspended or revoked? 7 A. No.	
8 A. No. 8 Q. Tell me what you have reviewed for	
9 Q. Has your medical privileges at any 9 this deposition today.	
10 hospital ever been called into question, 10 A. I have reviewed my note from May 15th,	
11 suspended or revoked? 11 which was my sole encounter with the patient.	
12 A. No. 12 And I reviewed the note following that day after	
13 Q. Are you board certified in any area of 13 we switched services, the 16th.	
14 Q. Did you review any other parts of the	
15 A. Yes. Internal medicine, 15 medical records?	
16 cardiovascular medicine and intervention 16 A. No. 17 cardiology 17 Q. Did you refer to any textbook	
The outline gy.	
19each one of those?19preparationfor this deposition?20A.Yes.20A.No.	
20 A. Ho. 21 Q. Board certifications? 21 Q. Have you at any time since this case	
22 A. Yes. 22 was filed reviewed the tapes of the	
23 Q. Did you pass each of those on your 23 echocardiograms that were done on Gregory Colvir	?
24 first try? 24 A. No.	
25 A. Yes. 25 Q. Since this case was filed, have you	
Page 10 Page	12
1 Q. Doctor, on your curriculum vitae, you 1 discussed this case with any physicians, othe	.
2 have a number of publications listed. 2 than Dr. Skiver?	
3 Do you have any publications that are 3 A. No.	
4 currently in progress of publication that are not 4 Q. And other than with counsel, have you	
4 currently in progress of publication that are not 5 listed on this curriculum vitae? 4 Q. And other than with counsel, have you 5 discussed this case with anyone else?	
5 listed on this curriculum vitae? 5 discussed this case with anyone else?	
5listed on this curriculum vitae?5discussed this case with anyone else?6A.There are probably two or three6A.No.	
5listed on this curriculum vitae?5discussed this case with anyone else?6A. There are probably two or three6A. No.7articles that are under review, yes.7Q. Aside from the notes that you have8Q. Do any of them deal with infective8just referenced in the medical records, do you9endocarditis?9have any other notes or personal file on this	
5listed on this curriculum vitae?5discussed this case with anyone else?6A. There are probably two or three6A. No.7articles that are under review, yes.7Q. Aside from the notes that you have8Q. Do any of them deal with infective8just referenced in the medical records, do you9endocarditis?9have any other notes or personal file on this10A. No.10case?	
5listed on this curriculum vitae?5discussed this case with anyone else?6A.There are probably two or three6A.No.7articles that are under review, yes.7Q.Aside from the notes that you have8Q.Do any of them deal with infective8just referenced in the medical records, do you9endocarditis?9have any other notes or personal file on this10A.No.10case?11Q.In regard to the articles that are11A.No.	
5listed on this curriculum vitae?5discussed this case with anyone else?6A. There are probably two or three6A. No.7articles that are under review, yes.7Q. Aside from the notes that you have8Q. Do any of them deal with infective8just referenced in the medical records, do you9endocarditis?9have any other notes or personal file on this10A. No.10case?11Q. In regard to the articles that are11A. No.12listed on your curriculum vitae, do any of them12Q. Doctor, is there a textbook in your	
5listed on this curriculum vitae?5discussed this case with anyone else?6A. There are probably two or three6A. No.7articles that are under review, yes.6A. No.8Q. Do any of them deal with infective7Q. Aside from the notes that you have9endocarditis?910A. No.911Q. In regard to the articles that are1112listed on your curriculum vitae, do any of them1213deal with infective endocarditis?13	
5listed on this curriculum vitae?5discussed this case with anyone else?6A. There are probably two or three6A. No.7articles that are under review, yes.6A. No.8Q. Do any of them deal with infective9endocarditis?9endocarditis?9have any other notes or personal file on this10A. No.10case?11Q. In regard to the articles that are11A. No.12listed on your curriculum vitae, do any of them12Q. Doctor, is there a textbook in your13deal with infective endocarditis?13field of practice that you consider to be the14A. No.14most reliable or the best?	
5listed on this curriculum vitae?5discussed this case with anyone else?6A. There are probably two or three6A. No.7articles that are under review, yes.6A. No.8Q. Do any of them deal with infective9endocarditis?9endocarditis?7Q. Aside from the notes that you have10A. No.9have any other notes or personal file on this10A. No.10case?11Q. In regard to the articles that are11A. No.12listed on your curriculum vitae, do any of them12Q. Doctor, is there a textbook in your13deal with infective endocarditis?13field of practice that you consider to be the14A. No.14A. No.1515Q. Do any deal with prosthetic mitral15A. There are two or three textbooks whice	
5listed on this curriculum vitae?5discussed this case with anyone else?6A. There are probably two or three6A. No.7articles that are under review, yes.6A. No.8Q. Do any of them deal with infective9endocarditis?9endocarditis?7Q. Aside from the notes that you have10A. No.9have any other notes or personal file on this10A. No.10case?11Q. In regard to the articles that are11A. No.12listed on your curriculum vitae, do any of them12Q. Doctor, is there a textbook in your13deal with infective endocarditis?13field of practice that you consider to be the14A. No.14Most reliable or the best?15Q. Do any deal with prosthetic mitral15A. There are two or three textbooks whic16valve replacement?16are considered reliable.	
5listed on this curriculum vitae?5discussed this case with anyone else?6A. There are probably two or three6A. No.7articles that are under review, yes.6A. No.8Q. Do any of them deal with infective9endocarditis?9endocarditis?7Q. Aside from the notes that you have10A. No.7Q. Aside from the medical records, do you11Q. In regard to the articles that are10case?12listed on your curriculum vitae, do any of them12Q. Doctor, is there a textbook in your13deal with infective endocarditis?13field of practice that you consider to be the14A. No.14Mo.1515Q. Do any deal with prosthetic mitral15A. There are two or three textbooks whic16valve replacement?17A. No. There is one article that deals1717A. No. There is one article that deals17Q. Which textbooks would those be?	
5listed on this curriculum vitae?5discussed this case with anyone else?6A. There are probably two or three7articles that are under review, yes.6A. No.7articles that are under review, yes.7Q. Aside from the notes that you have9endocarditis?7Q. Aside from the medical records, do you9endocarditis?7Q. Aside from the notes that you have10A. No.7Q. Aside from the notes that you have11Q. In regard to the articles that are10case?12listed on your curriculum vitae, do any of them12Q. Doctor, is there a textbook in your13deal with infective endocarditis?13field of practice that you consider to be the14A. No.14Mo.15Q. Do any deal with prosthetic mitral16valve replacement?15A. There are two or three textbooks whic17A. No. There is one article that deals17Q. Which textbooks would those be?18in general with valve surgery at The Cleveland18A. Braunwald and Tober's, the Heart.	h
 5 listed on this curriculum vitae? 6 A. There are probably two or three 7 articles that are under review, yes. 8 Q. Do any of them deal with infective 9 endocarditis? 10 A. No. 11 Q. In regard to the articles that are 12 listed on your curriculum vitae, do any of them 13 deal with infective endocarditis? 14 A. No. 15 Q. Do any deal with prosthetic mitral 16 valve replacement? 17 A. No. There is one article that deals 18 in general with valve surgery at The Cleveland 19 Clinic Foundation. 5 discussed this case with anyone else? 6 A. No. 7 Q. Aside from the notes that you have 9 just referenced in the medical records, do you 9 have any other notes or personal file on this 10 A. No. 11 Q. In regard to the articles that are 12 listed on your curriculum vitae, do any of them 13 deal with infective endocarditis? 14 A. No. 15 Q. Do any deal with prosthetic mitral 16 valve replacement? 17 A. No. There is one article that deals 18 in general with valve surgery at The Cleveland 19 Q. Do you refer to them from time to time 	h
5listed on this curriculum vitae?5discussed this case with anyone else?6A. There are probably two or three7articles that are under review, yes.6A. No.7articles that are under review, yes.7Q. Aside from the notes that you have8Q. Do any of them deal with infective8just referenced in the medical records, do you9endocarditis?9have any other notes or personal file on this10A. No.10case?11Q. In regard to the articles that are11A. No.12listed on your curriculum vitae, do any of them12Q. Doctor, is there a textbook in your13deal with infective endocarditis?13field of practice that you consider to be the14A. No.14most reliable or the best?15Q. Do any deal with prosthetic mitral15A. There are two or three textbooks whic16valve replacement?15A. There are two or three textbooks whic18in general with valve surgery at The Cleveland18A. Braunwald and Tober's, the Heart.19Q. Would you tell me on your curriculum20in your practice?	h
 5 listed on this curriculum vitae? 6 A. There are probably two or three 7 articles that are under review, yes. 8 Q. Do any of them deal with infective 9 endocarditis? 10 A. No. 11 Q. In regard to the articles that are 12 listed on your curriculum vitae, do any of them 13 deal with infective endocarditis? 14 A. No. 15 Q. Do any deal with prosthetic mitral 16 valve replacement? 17 A. No. There is one article that deals 18 in general with valve surgery at The Cleveland 19 Clinic Foundation. 20 Q. Would you tell me on your curriculum 5 discussed this case with anyone else? 6 A. No. 7 Q. Aside from the notes that you have 8 just referenced in the medical records, do you 9 have any other notes or personal file on this 10 case? 11 A. No. 12 Q. Doctor, is there a textbook in your 13 field of practice that you consider to be the 14 M. No. 15 A. No. There is one article that deals 18 in general with valve surgery at The Cleveland 19 Clinic Foundation. 20 Q. Would you tell me on your curriculum 	h
5listed on this curriculum vitae?5discussed this case with anyone else?6A. There are probably two or three7articles that are under review, yes.6A. No.7articles that are under review, yes.8Q. Do any of them deal with infective9endocarditis?10A. No.7Q. Aside from the notes that you have9endocarditis?7Q. Aside from the notes that you have10A. No.7Q. Aside from the notes or personal file on this11Q. In regard to the articles that are10A. No.12listed on your curriculum vitae, do any of them12Q. Doctor, is there a textbook in your13deal with infective endocarditis?11A. No.14A. No.12Q. Doctor, is there a textbook in your15Q. Do any deal with prosthetic mitral1616valve replacement?15A. There are two or three textbooks whic18in general with valve surgery at The Cleveland19Clinic Foundation.20Q. Would you tell me on your curriculum20in your practice?21vitae which article that is? Do you have them21A. Certainly.	h
5listed on this curriculum vitae?5discussed this case with anyone else?6A. There are probably two or three7articles that are under review, yes.6A. No.7articles that are under review, yes.7Q. Aside from the notes that you have8Q. Do any of them deal with infective9have any other notes or personal file on this9endocarditis?9have any other notes or personal file on this10A. No.9have any other notes or personal file on this11Q. In regard to the articles that are11A. No.12listed on your curriculum vitae, do any of them13deal with infective endocarditis?14A. No.11A. No.15Q. Do any deal with prosthetic mitral15A. There are two or three textbooks which16valve replacement?15A. There are two or three textbooks which18in general with valve surgery at The Cleveland19Q. Do you refer to them from time to time20Q. Would you tell me on your curriculum20in your practice?21vitae which article that is? Do you have them20in your consider them to be23A. They are not numbered, but I can show24you.24you.24A. They are, yes, the best that exist.	h
5listed on this curriculum vitae?5discussed this case with anyone else?6A. There are probably two or three7articles that are under review, yes.6A. No.7articles that are under review, yes.7Q. Aside from the notes that you have8Q. Do any of them deal with infective8just referenced in the medical records, do you9endocarditis?7Q. Aside from the notes that you have10A. No.7Q. Aside from the notes or personal file on this11Q. In regard to the articles that are11A. No.12listed on your curriculum vitae, do any of them12Q. Doctor, is there a textbook in your13deal with infective endocarditis?11A. No.14A. No.12Q. Doctor, is there a textbook in your15Q. Do any deal with prosthetic mitral1616valve replacement?15A. There are two or three textbooks which16valve replacement?1817A. No. There is one article that deals1718A. Braunwald and Tober's, the Heart.19Q. Do you refer to them from time to time20Q. Would you tell me on your curriculum21vitae which article that is? Do you have them22Q. Do you consider them to be23A. They are not numbered, but I can show23A. They are not numbered, but I can show	h

3 (Pages 9 to 12)

		1	
	Page 13		Page 15
1	time they are published, and the knowledge	1	involves the inflammation of the lining of the
2	advances quite fast in certain areas.	2	heart, and most often is in the context of an
3	Q. Now, as you sit here today, are there	3	infection.
4	any specific publications that you believe have	4	Q. What is early prosthetic valve
5	relevance to the issues in this case?	5	endocarditis?
6	A. Not that I'm aware of. It's not my	6	 A. It's the appearance of this process,
7	field of expertise.	7	which again is presumed to be infective in
8	Q. Have you participated in any research	8	origin, in the first few months after the
9	dealing with the subject matter of infective	9	replacement of the valve.
10	endocarditis?	10	Q. Would you agree that staph epidermis
11	A. No.	11	is a common cause of prosthetic valve
12	Q. Any research dealing with prosthetic	12	endocarditis?
13	valve endocarditis, specifically?	13	A. Yes.
14	A, No.	14	Q. Do you know what the peak time of
15	Q. Doctor, I would like you to just	15	onset for prosthetic valve endocarditis is after
16	describe for me a little bit what your clinical	16	cardiac surgery?
17	practice is. I understand that you are a	17	A. I believe it's 30 days.
18	cardiologist, but do you limit your practice to	18	Q. And do you know what percentage of
19	any specific area of cardiology?	19	valve replacement surgical patients go on to
20	A. Well, I specialize in the invasive	20	develop prosthetic valve endocarditis within the
21	procedure of cardiac catherization and	21	first two months after surgery?
22	angioplasty, hemodynamic monitoring and provision	22	A. I'm not absolutely sure. I have an
23	of intensive care in the intensive care unit.	23	approximate.
24	Q. Do you perform echocardiograms in your	24	Q. Approximately then.
25	practice?	25	A. Less than five percent.
	F		
	Page 14		Page 16
4	Page 14	1	Page 16
1	A. No.	1	Q. Do you know what Cleveland Clinic's
2	A. No.Q. Do you evaluate echocardiograms in	2	Q. Do you know what Cleveland Clinic's rate of prosthetic valve endocarditis is after
2 3	A. No. Q. Do you evaluate echocardiograms in your practice?	2 3	Q. Do you know what Cleveland Clinic's rate of prosthetic valve endocarditis is after surgery in 1997 or 1998?
2 3 4	 A. No. Q. Do you evaluate echocardiograms in your practice? A. I review them when relevant, although 	2 3 4	 Q. Do you know what Cleveland Clinic's rate of prosthetic valve endocarditis is after surgery in 1997 or 1998? A. No.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 A. No. Q. Do you evaluate echocardiograms in your practice? A. I review them when relevant, although I do defer to the expertise of those who mainly do them. Q. Do you see patients outside of the acute care areas; such as in the clinics, at all? A. Yes. Q. Do you do that on a regular basis? A. Yes. Q. How many hours a week do you do that? A. One day a week. Q. Are the other days of the week involved in the acute care hospital setting? A. The other days of the week are spent in the catheterization laboratory, and periodically, approximately four months a year, I am in the intensive care unit. Q. When you are in the cath lab, do you have any responsibilities in the coronary intensive care? A. No. Q. Doctor, what is endocarditis? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 Q. Do you know what Cleveland Clinic's rate of prosthetic valve endocarditis is after surgery in 1997 or 1998? A. No. Q. And in your practice, do you see patients with prosthetic valve endocarditis? A. The ones that I do are in the intensive care unit, although most of them do come from other hospitals. Q. Aside from I'm sorry. Did you complete your answer? A. Yes. Q. Aside from this case, however, do you see prosthetic valve endocarditis? A. Again, I'm not 100 percent certain, but I would think two to five cases a year. That doesn't necessarily mean that they are all early prosthetic valve endocarditis. Q. I understand, doctor. Would you agree that there has to be a high degree of vigilance for infective endocarditis in a patient with a prosthetic valve? A. Yes.
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4 (Pages 13 to 16)

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	Page 17		Page 19
1	a patient with a prosthetic valve at increased	1	patient that has prosthetic valve endocarditis
2	risk for prosthetic valve endocarditis?	2	differ at all from the ones that you just
3	A. The occurrence of prosthetic valve	3	mentioned?
4	endocarditis and again, not necessarily the	4	A. I believe in general they are the
5 6	early varieties are associated with patients who undergo invasive procedures, particularly	5 6	same.
7	dental procedures; use of intravenous drugs,	7	Q. How is prosthetic valve endocarditis diagnosed?
8	usually illicit drugs; the presence of poorly	8	A. Generally, infective endocarditis is a
9	healed endocarditis before the initial valve	9	bacteriologic diagnosis, meaning that the
10	replacement; and lack of administration of	10	presence of positive blood cultures are
11	antibiotic prophylaxis during invasive procedures	11	identified in the patients in whom such a
12	in such patients.	12	condition occurs. And once it exists, obviously,
13	So these would be some of the risk	13	the source is identified, and as was stated
14	factors associated with the occurrence of this	14	before, because patients who have a prosthetic
15	condition.	15	material, a valve or anything else, are at higher
16 17	Q. Would an abscess in the neck draining purulent material increase the risk for	16 17	risk of this infection, then echocardiographic
17	prosthetic valve endocarditis?	17	evaluation of the valve will detect the presence of abnormal masses which in the right context
19	MR. POLITO: Objection.	19	would imply the presence of a vegetation.
20	Q. You may answer.	20	<i>Q</i> . Does a patient have to have positive
21	A. As it is, if it is associated with	21	blood cultures before a presumptive diagnosis of
22	bacteremia, yes.	22	prosthetic valve endocarditis can be made?
23	Q. What are the signs and symptoms of	23	A. The majority of patients would have
24	infective endocarditis?	24	positive blood cultures, yes. The vast majority.
25	A. It is usually a systemic disorder that	25	Q. But my question is, does a patient
	P 40		B
	Page 18	-	Page 20
1	manifests with lack of appetite, weakness,	1	have to have positive blood cultures before
2	manifests with lack of appetite, weakness, appearance of a murmur, or exacerbation of a	2	have to have positive blood cultures before presumptive diagnosis of prosthetic valve
2 3	manifests with lack of appetite, weakness, appearance of a murmur, or exacerbation of a previously existent murmur; stigmata, enlargement	2 3	have to have positive blood cultures before presumptive diagnosis of prosthetic valve endocarditis can be made?
2 3 4	manifests with lack of appetite, weakness, appearance of a murmur, or exacerbation of a previously existent murmur; stigmata, enlargement of the spleen, renal dysfunction.	2 3 4	have to have positive blood cultures before presumptive diagnosis of prosthetic valve endocarditis can be made? A. No.
2 3 4 5	manifests with lack of appetite, weakness, appearance of a murmur, or exacerbation of a previously existent murmur; stigmata, enlargement	2 3	have to have positive blood cultures before presumptive diagnosis of prosthetic valve endocarditis can be made?
2 3 4	manifests with lack of appetite, weakness, appearance of a murmur, or exacerbation of a previously existent murmur; stigmata, enlargement of the spleen, renal dysfunction. There is deterioration of the heart	2 3 4 5	 have to have positive blood cultures before presumptive diagnosis of prosthetic valve endocarditis can be made? A. No. Q. What is culture negative endocarditis?
2 3 4 5 6	manifests with lack of appetite, weakness, appearance of a murmur, or exacerbation of a previously existent murmur; stigmata, enlargement of the spleen, renal dysfunction. There is deterioration of the heart function because of abnormalities of valve	2 3 4 5 6	 have to have positive blood cultures before presumptive diagnosis of prosthetic valve endocarditis can be made? A. No. Q. What is culture negative endocarditis? A. It's a condition associated with the
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5 (Pages 17 to 20)

	Page 21		Page 23
1	endocarditis, would it be important to get the	1	decompensation would be helpful in determining
2	patient into surgery for valve replacement before	2	the timing of surgery?
3	cardiac collapse occurred?	3	A. Again, only in the direction of the
4	A. Obviously it would be the goal to	4	deterioration. The resolution of findings by
5	correct the abnormality at the optimal time.	5	echocardiogram would not necessarily obviate the
6 7	Q. Doctor, would you agree that echocardiac studies are vitally important in the	6	need for surgery.
8	diagnosis of infective endocarditis?	7	Q. Well, my question said can it assist in making that decision, doctor.
9	A. Echocardiographic studies determine	9	A. Assist, yes.
10	the degree of abnormality of the valve. They do	10	Q. Doctor, if there is a question about
11	not establish the diagnosis of endocarditis. It	11	an echo density on an echocardiogram in a patient
12	is a bacteriologic diagnosis.	12	that has a prosthetic valve, would it be
13	Q. Well, doctor, if you see vegetations	13	advisable to do a follow-up echo to look for
14	on a patient's heart valve but they are culturing	14	changes in that echo density?
15	negative, would there be a presumption that this	15	MR, POLITO: Objection.
16	patient has endocarditis?	16	A. The utility of repeat
17	A. Certainly so. Nevertheless, by	17	echocardiographic studies exists only if the
18	echocardiography you do not see vegetations, you	18	reason for the indecision is because the
19	see masses which need to be interpreted,	19	abnormality was not severe enough. If you cannot
20	particularly in the setting of previously	20	see it on the first one, because you can't see
21	existing valve abnormalities.	21	the structure, then you will not be able to see
22	Q. If you see echo densities that suggest	22	it on another one.
23	vegetations even if the patient has negative	23	Q. But if there is an echo density that
24	blood cultures, would that allow you to make a	24	you are unsure about as to whether it might be
25	presumptive diagnosis of endocarditis?	25	suggestive of a vegetation or not, would a
	Page 22		Page 24
1	A. In the right clinical context,	1	follow-up echo at a later date give you more
2	A. In the right clinical context, certainly.	2	follow-up echo at a later date give you more information regarding that echo density?
2 3	A. In the right clinical context,certainly.Q. And would that clinical context	2 3	follow-up echo at a later date give you more information regarding that echo density? MR. POLITO: Objection.
2 3 4	 A. In the right clinical context, certainly. Q. And would that clinical context include cardiac decompensation that was 	2 3 4	follow-up echo at a later date give you more information regarding that echo density? MR. POLITO: Objection. A. Not necessarily. Again, if the
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$\begin{array}{c} 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 16 \\ 17 \\ 18 \\ 19 \\ 20 \\ 21 \\ 22 \\ 22 \end{array}$	 A. In the right clinical context, certainly. Q. And would that clinical context include cardiac decompensation that was progressing? A. Certainly. Q. Would you agree that you cannot exclude the diagnosis of endocarditis on the basis of a negative echocardiogram alone? A. Yes. Q. Does the presence of a prosthetic valve sometimes interfere with the detection of echo densities that would suggest vegetations? A. Frequently. Q. Would you agree that sequential echocardiograms performed during treatment of endocarditis can assist in making decisions on the necessity for and the timing of surgery by providing objective assessment of cardiac function? A. The detection of deterioration despite treatment would be an indication for surgery. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	follow-up echo at a later date give you more information regarding that echo density? MR. POLITO: Objection. A. Not necessarily. Again, if the abnormality existed and you decided to treat that condition anyhow, then in the absence of clinical signs and symptoms, you would not necessarily. Q. What type of clinical signs and symptoms? A. Heart failure, heart blocks, embolizations. Particularly if the course was already decided as to what's the next step. In the absence of treatment, the sequential echocardiographic studies might assist you in determining whether that density has changed or disappeared, decreased in size. MR. SKIVER: Keep your voice up. Q. In a patient with early prosthetic valve endocarditis that is treated with antibiotics and valve replacement, do you know what the cure rate is? MR. SKIVER: Objection. Calls for

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	Page 25		Page 27
1	Q. Resolution of the infection and	1	both, then there is no ground for such diagnosis.
2	resolution of the cardiac decompensation.	2	Q. If you have just the positive blood
3	A. If the operation is successful, the	3	cultures without vegetations, can you make the
4 5	rate of cure, as you define it, is high. Q. Can you give me a percentage?	4 5	diagnosis of endocarditis? A. No.
6	A. Usually in the 90 percent range.	6	Q. How is prosthetic valve endocarditis
7	Q. Doctor, I understand that there is a	7	treated once it's been diagnosed?
8	transthoracic type echo and a transesophageal	8	A. The majority of patients with
9	echo. Is one type of echo more sensitive in	9	prosthetic valve endocarditis will necessitate
10	regard to vegetations?	10	surgery. After adequate antibiotic therapy,
11	A. The definition of the densities by	11	surgery will be followed by an additional
12	transesophageal cardiography is superior to the	12	antibiotic course, quite prolonged.
13	transthoracic.	13	Q. How long usually is the antibiotic
14	Q. Now, what would the clinical	14 15	course after surgery? A. Usually a total of six weeks, Again.
15	indicators be that would warrant proceeding with	16	A. Usually a total of six weeks. Again, it depends on how much before and how much after
10	an echocardiogram, either transthoracic or transesophageal, to assist in the diagnosis of	17	the surgery.
18	prosthetic valve endocarditis?	18	Q. Would you agree that the sooner
19	A. The suspicion for the presence of	19	prosthetic valve endocarditis is treated with
20	endocarditis, particularly in the presence of	20	antibiotics, the more likely the outcome will be
21	positive blood cultures.	21	positive?
22	Q. Now, if the blood cultures are not	22	MR. POLITO: Objection.
23	positive, are there any other clinical indicators	23	MS. KINKOPF-ZAJAC: Objection.
24	that would cause you to proceed with an	24	A. The sooner it is diagnosed and
25	echocardiogram?	25	treated, yes.
1 2 3 4 5 6 7 8 9 10 11 22 3 4 15 16 17 18 19 20 21 22 23 24	 MR. POLITO: Objection. Q. You may answer. A. Deterioration in heart function, presence of heart blocks, that's rate abnormality. Q. We talked about all the signs and symptoms of endocarditis before. If the patient was exhibiting those signs, would that warrant moving towards an echocardiogram? MR. POLITO: Objection. Q. Without positive blood cultures. MR. POLITO: Objection. A. In the presence of an identifiable source for those symptoms, no. In the absence of such a source, yes. What I meant by source is if the patient has urinary tract infection, then, no, it is not indicated to perform an echocardiogram. Q. I think you may have implied the answer to this, but do valvular vegetations have to be present before the diagnosis of prosthetic valve endocarditis can be made? A. Again, if the diagnosis rests on the presence of positive blood cultures and densities 	$\begin{array}{c}1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\324\end{array}$	 Q. If a patient with prosthetic valve endocarditis develops a new heart murmur, is that of significance clinically to the patient? A. Yes. Q. What would that be an indication of, or possibly an indication of? MR. POLITO: Objection. A. It could possibly indicate the presence of negative regurgitation or stenosis. The former is more common. Q. Would you agree that the timing of surgery for replacing an infected prosthetic valve is extremely important in the management of a patient with prosthetic valve endocarditis? A. The optimal time of replacement is of crucial importance, yes. Q. How would you define optimal time of replacement, doctor? A. It's the time to which you have made every effort to sterilize the infected area, which is typically the valve or the surrounding tissues, while not compromising the hemodynamic status of the patient. From a clinical point of view, it
25	or vegetations on the valve. In the absence of	25	means that the blood cultures have become

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1			
l	Page 29		Page 31
1	negative, assuming that they were positive at the	1	of structural abnormalities of the valve area,
2	beginning of the disease.	2	such as the dehiscence ring or the struts of the
3	Q. So if surgery is delayed too long in a	3	valve itself; the presence of embolization to
4	prosthetic valve endocarditis patient, the	4	peripheral organs, the brain or others; the
5	patient's hemodynamic status may deteriorate so	5	inability to eradicate the infection, meaning
6	seriously that surgery would no longer be	6	that the blood cultures remain positive despite
7	feasible; correct?	7	adequate antibiotic therapy. All these are some
8 9	A. A number of complications may ensue, not necessarily hemodynamic, yes.	8 9	of the indicators that surgery is needed. Q. If a patient with prosthetic valve
10	Q. But hemodynamic deterioration is one	10	Q, If a patient with prosthetic valve endocarditis develops heart failure that's
11	of those complications; correct?	11	unresponsive to therapy, does that make the
12	A. Yes.	12	patient a surgical candidate barring other
13	Q. Doctor, would you agree that because	13	reasons why the patient couldn't go to surgery?
14	of the likely need for surgery during the course	14	A. If the presence of heart failure is
15	of prosthetic valve endocarditis that the patient	15	related to the compensation of the valve
16	should be managed in consultation with cardiac	16	structure, yes or function, I should say, yes.
17	surgery service?	17	Q. Do you have an independent
18	Ă. Yes.	18	recollection of Gregory Colvin as you sit here
19	Q. And the reason for that would be to	19	today? Do you remember him?
20	facilitate timely surgery when the optimum time	20	A. ?he patient, no. Just from the notes.
21	arrives; correct?	21	Q. From your review of the record, can
22	A. Yes.	22	you tell me when Gregory Colvin first came under
23	Q. Doctor, once a patient with prosthetic	23	your care?
24	valve endocarditis develops moderate or severe	24	A. It was on May 15th. It appears that
25	cardiac failure, isn't there a high risk that	25	he was transferred to the coronary intensive care
	Page 30		Page 32
1	cardiac function may suddenly worsen?	1	unit from the regular nursing floor on that day.
2	A. Over what period of time?	2	Q. And is that the only day that you saw
3	Q. At any point in the acute illness.	3	Gregory Colvin?
4	A. I'm not sure what very likely means.	4	A. Yes.
5	Q. If the patient has a moderate to	5	Q. Did you see him at any time at any of
6	severe cardiac failure and also has prosthetic	6	his previous hospitalizations at The Cleveland
7	valve endocarditis, is not that patient at high	7	Clinic that you are aware of?
8	risk for sudden decompensation of his cardiac	8	A. I'm not aware.
9	function?	9	Q. And what is the reason that he came
10	A. No. But again, I'm not sure what you	10	under your care in the coronary intensive care
	mean by high and low, so	11	unit?
11		1 10	
12	Q. Well, higher risk than a patient who	12	A. Diagnosis of infective or the
12 13	Q. Well, higher risk than a patient who doesn't have cardiac failure.	13	presumptive diagnosis of infective endocarditis
12 13 14	Q. Well, higher risk than a patient whodoesn't have cardiac failure.A. Yes.	13 14	presumptive diagnosis of infective endocarditis of the prosthetic valve was made and he had a
12 13 14 15	Q. Well, higher risk than a patient whodoesn't have cardiac failure.A. Yes.Q. Now, doctor, you mentioned that a high	13 14 15	presumptive diagnosis of infective endocarditis of the prosthetic valve was made and he had a mild degree of renal insufficiency. There was
12 13 14 15 16	 Q. Well, higher risk than a patient who doesn't have cardiac failure. A. Yes. Q. Now, doctor, you mentioned that a high number of patients with prosthetic valve 	13 14 15 16	presumptive diagnosis of infective endocarditis of the prosthetic valve was made and he had a mild degree of renal insufficiency. There was suspicion on an echocardiogram for a mitral
12 13 14 15 16 17	 Q. Well, higher risk than a patient who doesn't have cardiac failure. A. Yes. Q. Now, doctor, you mentioned that a high number of patients with prosthetic valve endocarditis will need surgical replacement of 	13 14 15 16 17	presumptive diagnosis of infective endocarditis of the prosthetic valve was made and he had a mild degree of renal insufficiency. There was suspicion on an echocardiogram for a mitral valvular abscess, and typically we like to
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12 13 14 15 16 17 18 19	 Q. Well, higher risk than a patient who doesn't have cardiac failure. A. Yes. Q. Now, doctor, you mentioned that a high number of patients with prosthetic valve endocarditis will need surgical replacement of the infective valve. In a patient with prosthetic valve 	13 14 15 16 17 18 19	presumptive diagnosis of infective endocarditis of the prosthetic valve was made and he had a mild degree of renal insufficiency. There was suspicion on an echocardiogram for a mitral valvular abscess, and typically we like to observe the patients under more strict care in the intensive care unit.
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12 13 14 15 16 17 18 19 20 21	 Q. Well, higher risk than a patient who doesn't have cardiac failure. A. Yes. Q. Now, doctor, you mentioned that a high number of patients with prosthetic valve endocarditis will need surgical replacement of the infective valve. In a patient with prosthetic valve endocarditis, what would be the indicators for recommending surgical removal and replacement of 	13 14 15 16 17 18 19 20 21 22	presumptive diagnosis of infective endocarditis of the prosthetic valve was made and he had a mild degree of renal insufficiency. There was suspicion on an echocardiogram for a mitral valvular abscess, and typically we like to observe the patients under more strict care in the intensive care unit. Q. I note that your name appears on the stamp on the clinical notes from the CICU and that your clinical note indicates that you are
12 13 14 15 16 17 18 19 20 21 22	 Q. Well, higher risk than a patient who doesn't have cardiac failure. A. Yes. Q. Now, doctor, you mentioned that a high number of patients with prosthetic valve endocarditis will need surgical replacement of the infective valve. In a patient with prosthetic valve endocarditis, what would be the indicators for recommending surgical removal and replacement of the valve? 	13 14 15 16 17 18 19 20 21	presumptive diagnosis of infective endocarditis of the prosthetic valve was made and he had a mild degree of renal insufficiency. There was suspicion on an echocardiogram for a mitral valvular abscess, and typically we like to observe the patients under more strict care in the intensive care unit. Q. I note that your name appears on the stamp on the clinical notes from the CICU and
12 13 14 15 16 17 18 19 20 21 22 23	 Q. Well, higher risk than a patient who doesn't have cardiac failure. A. Yes. Q. Now, doctor, you mentioned that a high number of patients with prosthetic valve endocarditis will need surgical replacement of the infective valve. In a patient with prosthetic valve endocarditis, what would be the indicators for recommending surgical removal and replacement of the valve? A. There are a number of considerations. 	13 14 15 16 17 18 19 20 21 22 23	presumptive diagnosis of infective endocarditis of the prosthetic valve was made and he had a mild degree of renal insufficiency. There was suspicion on an echocardiogram for a mitral valvular abscess, and typically we like to observe the patients under more strict care in the intensive care unit. Q. I note that your name appears on the stamp on the clinical notes from the CICU and that your clinical note indicates that you are the CICU attending physician; is that correct?

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			Page 35
1	Colvin's management while he was in the CICU? A. Yes.	1	transfer occurred after the morning rounds, but
3	Q. And as his attending physician in the	2	do not know exactly the time in the afternoon when I saw him.
4	CICU, what were your duties and responsibilities?	3	
5	A. To evaluate the history and the	5	 Q. What time are morning rounds? A. Usually between 8:00 and 12:00,
6	physical examination and to review the progress	6	depending upon the clinic load on that particular
7	since his admission to the hospital and	7	day.
8	coordinate the plans for future management.	8	Q. So you likely saw him sometime after
9	Q. Did anyone ask you to specifically	9	12:00 noon?
10	consult on his case when he came into the unit?	10	A. Yes. We review the new patients that
11	A. No. The attending. I see everybody.	11	get admitted during the day.
12	Q. So he just automatically was assigned	12	Q. As the attending, how is it that you
13	to you because you were the attending at that	13	only saw him on the 15th?
14	particular time?	14	A. I'm not sure I understand the
15	A. Yes. I'm in charge of all the	15	question.
16	patients who reside in the intensive care unit at	16	Q. You have indicated that you were his
17	that particular time.	17	attending physician while he was in the
18	Q Did you have any discussions with any	18	cardiac intensive care unit.
19	of his physicians that had been caring for him	19	A. Yes.
20	prior to the time that he came to the CICU? A. I do not recall.	20	Q. And you have also indicated you only
21 22		21 22	saw him on the 15th.
22	Q. And if I ask you something that you don't recall, just tell me, but I need to ask it	22	A. Yes.
23	to find out whether you do recall something.	23	Q. Is there a reason as his attending physician you didn't see him on the 16th or the
25	A. Sure.	25	17th?
20		20	1) d1:
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	Page 34		Page 36
	Page 34		Page 36
1	Q. From your review of the record, was	1	A. We switched attendings in the
2	Q. From your review of the record, was there anyone else that had management	2	A. We switched attendings in the intensive care unit on the 15th. That's the
2 3	Q. From your review of the record, was there anyone else that had management responsibilities of Mr. Colvin while he was in	2 3	A. We switched attendings in the intensive care unit on the 15th. That's the regular service.
2 3 4	Q. From your review of the record, was there anyone else that had management responsibilities of Mr. Colvin while he was in the CICU? Aside from yourself, was there anyone	2 3 4	 A. We switched attendings in the intensive care unit on the 15th. That's the regular service. Q. Who was the attending after the 15th
2 3 4 5	Q. From your review of the record, was there anyone else that had management responsibilities of Mr. Colvin while he was in the CICU? Aside from yourself, was there anyone else managing some component of his care while he	2 3 4 5	 A. We switched attendings in the intensive care unit on the 15th. That's the regular service. Q. Who was the attending after the 15th then for Mr. Colvin?
2 3 4	Q. From your review of the record, was there anyone else that had management responsibilities of Mr. Colvin while he was in the CICU? Aside from yourself, was there anyone else managing some component of his care while he was in the unit?	2 3 4 5 6	 A. We switched attendings in the intensive care unit on the 15th. That's the regular service. Q. Who was the attending after the 15th then for Mr. Colvin? A. I believe Dr. Francis.
2 3 4 5 6	Q. From your review of the record, was there anyone else that had management responsibilities of Mr. Colvin while he was in the CICU? Aside from yourself, was there anyone else managing some component of his care while he	2 3 4 5	 A. We switched attendings in the intensive care unit on the 15th. That's the regular service. Q. Who was the attending after the 15th then for Mr. Colvin? A. I believe Dr. Francis. Q. Now, you were indicating the reason
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2 3 4 5 6 7 8 9 10 11	 Q. From your review of the record, was there anyone else that had management responsibilities of Mr. Colvin while he was in the CICU? Aside from yourself, was there anyone else managing some component of his care while he was in the unit? A. Well, there were consultants. The infective disease service was consulted, like in every other case of presumptive endocarditis, for the antibiotic prescription, for the optimal antibiotic prescription. 	2 3 4 5 6 7 8 9 10 11	 A. We switched attendings in the intensive care unit on the 15th. That's the regular service. Q. Who was the attending after the 15th then for Mr. Colvin? A. I believe Dr. Francis. Q. Now, you were indicating the reason that he was transferred to the CICU was because he was developing some complications; is that
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2 3 4 5 6 7 8 9 10 11 12 13	 Q. From your review of the record, was there anyone else that had management responsibilities of Mr. Colvin while he was in the CICU? Aside from yourself, was there anyone else managing some component of his care while he was in the unit? A. Well, there were consultants. The infective disease service was consulted, like in every other case of presumptive endocarditis, for the antibiotic prescription, for the optimal antibiotic prescription. The vascular medicine service, as I saw, was involved related to anemia and to over 	2 3 4 5 6 7 8 9 10 11 12 13	 A. We switched attendings in the intensive care unit on the 15th. That's the regular service. Q. Who was the attending after the 15th then for Mr. Colvin? A. I believe Dr. Francis. Q. Now, you were indicating the reason that he was transferred to the CICU was because he was developing some complications; is that correct? A. No. Q. What's your understanding as to why he was transferred to the CICU?
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9 (Pages 33 to 36)

	Page 37		Page 20
	other services, yes.	1	Page 39 ring is as it relates to a prosthetic valve?
2	Q. And in Gregory Colvin's case, would	2	A. The metallic structure that holds the
3	you have reviewed the reports of his	3	prosthesis in place, tightened to the heart
4	transthoracic echo and his transesophageal echo	4	itself.
5	that were done on, I believe, May 13th?	5	Q. Is it a structure where they actually
6	A. I noted here that the history and the	6	physically sew through the ring
7	physical examination were reviewed, so I would	7	A. Yes.
8	assume that I did that.	8	Q in order to secure the valve to the
9	Q. And you don't remember reviewing the	9	heart?
10	actual tapes of either of those echoes; correct?	10	A. Yes. The sutures actually go through
11	A. No. do not recall. But believe	11	the ring, yes.
12	that there was no doubt as to the presence of	12	Q. And what does mitral regurgitation
13	severe mitral regurgitation.	13	mean?
14	Q. Do you know whether the resident or	14	A. Leakage of the mitral valve. The
15	the fellow thought that Mr. Colvin was in	15	valve does not close as it should and blood
16	pulmonary edema or congestive failure at the time	15	regurgitates from one chamber to another and it
17	he came into the unit?	16	shouldn't.
18	A. If I know now or if you want me to	17	Q. So it's actually like a back flow
10	oh, I can check to see. This is the admission	10	through the valve?
20	note and it says looks stable without distress.	20	A. Yes.
20	On oxygen, was 100 percent saturations. Awaiting	20	Q. Now, I believe the transthoracic echo
22	surgery with wide open mitral regurgitation and	21	
22	presented previously with pulmonary edema which	22	refers to four plus MR. Is that four plus mitral regurgitation?
23	had resolved by now. The plan was to continue	23	A. Three plus to four plus, yes.
24	antibiotics, diuretics as needed.	24	Q. Are you looking at the transthoracic
25	antibiotics, didietics as needed.	25	
	Page 38		Page 40
1	So neither was it my impression that	1	echo or the transesophageal?
1 2	-	1	echo or the transesophageal? A. This is the transesophageal, I'm
	So neither was it my impression that he was in pulmonary edema at the time of his examination.		echo or the transesophageal? A. This is the transesophageal, I'm sorry. Yes, the transthoracic, this is the
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10 (Pages 37 to 40)

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11 (Pages 41 to 44)

	Page 41		Page 43
1	plus mitral regurgitation. Is this particular	1	endocarditis?
2	patient at high risk for sudden cardiac	2	A. Yes.
3	decompensation?	3	Q. Yes, doctor?
4	A. I'm not sure again what high means.	4	A. Yes, I'm sorry.
5	They are ill and it means that they will need valve surgery. Many patients have well	5	Q. Based on that May 13th transthoracic
7	compensated severe mitral regurgitation because	6 7	and transesophageal echo, should Gregory Colvin have been referred for urgent valve replacement
8	of the medical intervention that they were	8	surgery?
9	subjected to.	9	A. As I said, I believe that the best
10	Q. In Mr. Colvin's case, given what you	10	time, the optimal time to repair the valve or
11	know about his condition, was he at high risk for	11	replace it, in this case, would be when all the
12	decompensation?	12	core morbidities have been adequately controlled
13	A. Well, he presented with heart failure	13	and the blood cultures have remained sterile.
14	which has responded very well to medical therapy,	14	Q. Well, I am asking you in Gregory
15	so I would consider that he was at less risk then	15	Colvin's case, he obviously had a valve coming
16 17	than he was upon his arrival. Q. Now, doctor, I would like you to turn	16 17	loose. He had vegetations. He still didn't have positive blood cultures, but it was likely, you
18	to the next page, which has the transesophageal	18	said, that he would need surgery to replace that
19	report on it.	19	valve.
20	A. Yes.	20	A. Yes.
21	Q. And you have had an opportunity to	21	Q. Should he have been referred at that
22	look at the transthoracic. Are the findings on	22	point after the transesophageal echo for urgent
23	the transthoracic fairly consistent with what was	23	replacement of his heart valve?
24	found on the transesophageal?	24	A. No. The second heart operation
25	A. Yes.	25	even the first one certainly second heart
	Page 42		Page 44
1	Page 42	1	Page 44
1	Q. And the transesophageal gives you a	1 2	operations are rarely done on an urgent basis,
1 2 3	_	1 2 3	operations are rarely done on an urgent basis, literally taking the patient from the
2	Q. And the transesophageal gives you a little more specific information; is that	2	operations are rarely done on an urgent basis,
2 3 4 5	 Q. And the transesophageal gives you a little more specific information; is that correct? A. It's better definition, yes. Q. Are there any additional findings in 	2 3 4 5	operations are rarely done on an urgent basis, literally taking the patient from the echocardiographic suite to the operating room. Again, it's a matter of identifying what the infective organism is, whether the blood cultures
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q. And the transesophageal gives you a little more specific information; is that correct? A. It's better definition, yes. Q. Are there any additional findings in the transesophageal that were not present in the transthoracic report? A. They were able to give a precise dimension of the vegetation, which I believe was not present on the transthoracic and again it's because of the definition of the study I.3 by 10.8 centimeter. Otherwise, the findings are congruent and not very different. Q. With the valvular vegetations and I believe the transesophageal also mentions that he had rocking and dehiscence of his valve and also the severe mitral regurgitation I think at three plus to four plus, does that mean that his heart valve was literally coming loose from the heart where it had been secured? A. It means that it is not attached as well as it should, no question about it. Q. And is it likely that with that 	2 3 4 5 6 7 8 9 10 11 12 13 14 5 16 17 18 19 20 21 22 23	operations are rarely done on an urgent basis, literally taking the patient from the echocardiographic suite to the operating room. Again, it's a matter of identifying what the infective organism is, whether the blood cultures are or are not positive. I believe this was just the day of his admission, and so they couldn't know yet whether they are positive or not, because it takes a number of days for it to show up. There was some mild renal insufficiency, and again, you want to take the patient to surgery at the time of his optimal condition, not to wait too long but not to rush right away. So I think that typically patients are evaluated for a number of days unless there is a reason for immediate surgery. Q. Even though his valve was dehisced and it was rocking A. Yes. Q there was reason to delay the surgery for him? A. Very frequently, many times it takes more than a week before surgery is performed;

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	Page 45		Page 47
1	valve during bacteremia will cause reinfection of	1	A. It occurred before arriving to the
2	the new prosthesis, so it would be unusual.	2	intensive care unit, so the exact person is
3	Q. Doctor, I would like you to turn to	3	unknown to me.
4	your clinical note for us, if you would.	4	Q. Do you know whether or not the surgeon
5	A. Yes.	5	or someone from the surgical service ever came
6	Q. I would just like you to read through	6 7	down and evaluated Gregory Colvin after admission to the CICU?
7 8	it for me. Tell me what it is that you have written there.	8	A. After admission to the CICU?
о 9	A. 5-15-98. CCU attending. H&P, which	9	Q. Yes.
10	stands for history and physical review.	10	A. Again, I saw him only for that
11	51-year-old black man with prosthetic valve	11	afternoon and did not come back to the intensive
12	endocarditis following mitral valve replacement	12	care unit, so I don't know.
13	and tricuspid valve angioplasty from February of	13	Q. Do you know if anybody from the
14	1998.	14	cardiac surgery service evaluated him before he
15	Blood cultures negative. Question	15	came down and you saw him?
16	mark. HACEK, in caps, which is a particular type	16	A. I saw a note when I was reviewing the
17	of infection.	17	chart with you from the surgical service on the
18	Physical examination, no dyspnea at	18	13th, I believe.
19	this time. 117 over 65, the blood pressure.	19	Q. Does Cleveland Clinic have a cardiac
20	Heart rate, 100. No bacterial endocarditis	20	surgical team on call 24 hours a day in case a
21	stigmata, refers to skin findings. Lungs clear	21	patient needs to go to surgery immediately?
22	to auscultation. Regular rhythm rate. Loud	22	A. Yes.
23	mitral regurgitation murmur.	23	Q. And once a decision is made to send a
24	Impression, BE endocarditis,	24	patient to surgery, how long does it take at The
25	prosthetic mitral valve replacement. Negative	25	Cleveland Clinic to get the patient into
	Page 46		Page 48
1	blood cultures, mild chronic renal	1	surgery?
2	blood cultures, mild chronic renal insufficiency.	2	surgery? MR. SKIVER: Objection. Under what
2 3	blood cultures, mild chronic renal insufficiency. Plan, antibiotics per. Swan Ganz and	2 3	surgery? MR. SKIVER: Objection. Under what circumstances?
2 3 4	blood cultures, mild chronic renal insufficiency. Plan, antibiotics per. Swan Ganz and intra-aortic balloon pumps if becomes	2 3 4	surgery? MR. SKIVER: Objection. Under what circumstances? MS. TOSTI: His experience.
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2 3 4 5 6	blood cultures, mild chronic renal insufficiency. Plan, antibiotics per. Swan Ganz and intra-aortic balloon pumps if becomes hemodynamically unstable, and then my signature. Q. Any additional assessment findings	2 3 4 5 6	surgery? MR. SKIVER: Objection. Under what circumstances? MS. TOSTI: His experience. MR. SKIVER: Calls for speculation. Q. If you have a patient in the CICU and
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12 (Pages 45 to 48)

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	I
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1 notes and from everybody else's notes that	1 Q. How long does it take for a
2 surgery was going to occur soon.	2 transesophageal, approximately?
3 Q. Do you know what was meant by soon?	3 A. Usually takes about 30 minutes by the
4 I'm only asking if you know, doctor.	4 time the probe is put down. The patient needs to
5 A. No, I do not know.	5 be sedated and the probe is advanced into the
6 Q. There is a report in the clinical	6 stomach and so on.
7 notes of an echocardiogram that was done on May	7 Q. Now, when Gregory Colvin came into the
8 15th, I believe, for purposes of ruling out a	8 unit, was he placed on hemodynamic monitoring?
9 cardiac tamponade. Did you order that	9 A. All patients are placed on hemodynamic
10 echocardiogram?	10 monitoring. Not invasive hemodynamic
11 A. No. 12 Q. Were there any indicators in his	11 monitoring. Blood pressure is monitored
12 Q. Were there any indicators in his 13 condition that would raise a suspicion for	 12 frequently, heart rate is monitored continuously. 13 Q. Did he have a Swan Ganz catheter in
14 cardiac tamponade?	14 place?
15 A. The only thing I can think of is the	15 A. No. As I mentioned, Swan Ganz if he
16 fact that his INR or the level of anticoagulation	16 becomes hemodynamically unstable.
17 was high and I presumed that this was an	17 Q. So was it your impression he wasn't
18 indication. It occurred after I saw the patient,	18 going to need that type of invasive monitoring
19 so I do not know exactly what led to it.	19 unless something else happened to him?
20 Q. You believe that the echo was done	20 A. Yes.
21 after you saw the patient?	21 Q. Now, Gregory Colvin had a change in
22 A. It appears to be.	22 his condition, I believe, on the 16th.
23 Q. How can you tell that?	23 A. Yes.
A. Because my note ends here and then	24 Q. Were you notified in any regard about
25 there is a note from somebody else. Then there is	25 the change in his condition?
Page 50	Page 52
	Page 52
1 a note from 5-16 early in the morning, and this	1 A. No.
 a note from 5-16 early in the morning, and this again 5-15 appears out of sequence while the 	 A. No. Q. Did your responsibilities in the unit
1 a note from 5-16 early in the morning, and this 2 again 5-15 appears out of sequence while the 3 other is a 5-16, so I can only presume that if	 A. No. Q. Did your responsibilities in the unit and on the 15th and you turned them over to
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13 (Pages 49 to 52)

Page 53	Page 55
 16th. Q. Was that an on-call or were you actually present in this instance? A. No. I can be called if there is an issue that needs my attention. Q. Were you called at any time in regard to Gregory Colvin after midnight, beginning May 16th? A. I do not recall, but typically if I am notified there is a note in the chart where it's documented that they talked to me and I make accommodations. Q. Do you have any knowledge about his care after the time that you saw him on the 15th in regard to what happened to him, or what care he received in the unit? A. Not beyond reading the note that I mentioned to you before for the 16th. Q. And did you make any type of clinical decisions regarding his care after you saw him on the 15th? A. Beyond my initial note? Q. Yes. A. No. 	 A. Iwitness that myself at times that I would like my patients to have surgery sooner, but I believe it's normal. Q. Are you aware of any problems with misinformation being transmitted to surgeons regarding patients who were referred for surgery? A. I do not understand the question. Q. Are you aware of any instances in which there was misinformation being transmitted by the scheduling department to the surgeons about patients that were being referred to the surgical service for surgery? A. No. Q. Do you know Dr. Saunders? A. Yes. He left. Q. Are you aware of any problems voiced by any physicians regarding Dr. Saunders? A. No. I worked with him closely. Q. What is your understanding as to what happened to Gregory Colvin after the time that you cared for him? A. From the note that I read from the fibrillation which led to cardiac decompensation. Q. Didn't they take him and cardiovert
 Q. And by that I mean, you indicated that Page 54 you might be called and you have no recollection of ever being called or participating any further in Gregory Colvin's care? A. Exactly. Q. At any point in time, did you have any conversations with Gregory Colvin's family? A. No. Q. At any point in time, did you have any conversations with Dr. Saunders regarding Gregory Colvin? A. No, I do not recall. Q. Have you ever heard any physicians complain about the system for scheduling surgical patients at The Cleveland Clinic? A. As far as the ability to schedule or the system? I'm not sure what the question is. Q. Any type of complaints about the system that Cleveland Clinic uses to schedule surgical patients. Specifically I'm speaking of cardiac surgery patients. A. There are instances where there are many patients who await surgery. Q. Have you heard physicians complain about not being able to get the patients scheduled for surgery? 	 Q. Didn't they take him and cardiovert Page 56 1 him to correct the atrial fibrillation? A. Can I review this? I don't recall that part. You are asking before this happened or after it happened? Q. After. A. Yes. It says that he was cardioverted from atrial fibrillation to normal sinus rhythm. Q. Wouldn't you expect if that was the problem that his condition status would have improved? A. If the atrial fibrillation was the sole reason for his deterioration frequently the difficulty is the heart it depends how many hours he was in atrial fibrillation, and at times it requires additional support before the whole spectrum reverses. Q. Were you notified at all about Gregory Colvin's death? A. I do not recall. There is a notification system that is circulated, and I do not recall whether it was in place at that time

14 (Pages 53 to 56)

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Page 571Q.If you were not attending in the CICU,2there wouldn't be direct notification to you?3A.Exactly.4Q.Such as a phone call; correct?5A.Exactly. There would be a copy of a6memo that circulated.7Q.And you had no conversations with the8family after Gregory Colvin died; correct?9A.10Q.11Gregory Colvin had been taken to12surgery for valve replacement on or before May13death would have been preventable?14A.15Q.16Do you have an opinion as to whether his17A.18Q.19Do you have an opinion as to what10point in time his condition became irreversible?17A.18Q.19Do you have an opinion as to whether19Gregory Colvin should have been taken to open10heart surgery sometime prior to his death?21A.22Obviously the desired outcome, but I23A.24according to the notes that I read.25Q.If he had undergone appropriate	Page 59 1 AFFIDAVIT 2 I have read the foregoing transcript from 3 page 1 through 58 and note the following 4 corrections: 5 PAGE LINE 7 8 9 10 11 12 13 14 15 16 17 SORIN JAKOB BRENER, M.D. 18 9 19 Subscribed and sworn to before me this 20 4 23 Notary Public 24 25 25 My commission expires
Page 58 1 antibiotic therapy, his infection cleared and he 2 had undergone successful valve replacement 3 surgery, do you have an opinion as to what his 4 reasonable life expectancy would have been? 5 MR. SKIVER: Objection. Go ahead, 6 doctor. 7 A. As I said, the immediate success of 8 repeat valve surgery is about 90 percent. And 9 the failure in the two to five years after that 10 is anywhere between 30 and 40 percent. There is 511 still substantial morbidity. 12 Q. Do you have any criticisms of any of 13 the care that was rendered to Gregory Colvin? 14 A. Iwas involved in it too little to 15 comment. I believe that this reflects the 16 standard of care in terms of careful monitoring 17 in an intensive care unit. 18 MS. TOSTI: I don't have any further 19 questions for you, doctor. 20 MR. SKIVER: He will review it. 21 MS. KINKOPF-ZAJAC: no questions. 22 MR. SKIVER: He will review it. 23 <td>Page 60 1 CERTIFICATE 2 State of Ohio, 3 County of Cuyahoga. 5 I, Vivian L. Gordon, a Notary Public within and for the State of Ohio, duly commissioned and 6 qualified, do hereby certify that the within named SORIN JAKOB BRENER, M.D. Was by me first 7 duly sworn to testify to the truth, the whole truth and nothing but the truth in the cause 8 aforesaid; that the testimony as above set forth was by me reduced to stenotypy, afterwards 9 transcribed, and that the foregoing is a true and correct transcription of the testimony. 1 I do further certify that this deposition 1 was taken at the time and place specified and was completed without adjournment; that I am not a 2 relative or attorney for either party or otherwise interested in the event of this action. 1 IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal of office at Cleveland, Ohio, on this 12th day of September, 2000. 10 Within and for the State of Ohio 11 My commission expires June 8,2004.</td>	Page 60 1 CERTIFICATE 2 State of Ohio, 3 County of Cuyahoga. 5 I, Vivian L. Gordon, a Notary Public within and for the State of Ohio, duly commissioned and 6 qualified, do hereby certify that the within named SORIN JAKOB BRENER, M.D. Was by me first 7 duly sworn to testify to the truth, the whole truth and nothing but the truth in the cause 8 aforesaid; that the testimony as above set forth was by me reduced to stenotypy, afterwards 9 transcribed, and that the foregoing is a true and correct transcription of the testimony. 1 I do further certify that this deposition 1 was taken at the time and place specified and was completed without adjournment; that I am not a 2 relative or attorney for either party or otherwise interested in the event of this action. 1 IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal of office at Cleveland, Ohio, on this 12th day of September, 2000. 10 Within and for the State of Ohio 11 My commission expires June 8,2004.

15 (Pages 57 to 60)

Page 61 1 EXAMINATION OF SORIN JAKOB BRENER, M.D. 2 BY MS. TOSTI:	
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Verso

September 5,2000

Page 59 1 AFFIDAVIT 2 I have read the foregoing transcript from page 1 through 58 and note the following 3 corrections: 4 5 PAGE LINE REQUESTED CHANGE Interventional Typo 9 6 -, 16 12 18 7 Braunwold, Topol's, The Heart Type 8 18 3 Add skin before Stipusta - Truscing 9 25 24 Defined Transc 10 24 4 Heart vate Frams 11 28 Value reging to blen Decomprisation 12 17 31 Transci 13 33 -11 As the attending, I Fer Trany 14 42 12 0.8 - not 10.8 TXOJ 15 43 12 co-mor bidities Mars ny 16 45 Woulds . t Transcrip 17 46 3 AM per 1D SORIN JAKOB BRENER 18 19 Subscribed and sworn to before me this day of 9/26 20 , 2000. 21 Notary Public 22 23 LAURA D. REINHARD Notary Public, State of Ohio, Cuy. Cy. My Commission Expires 3/36/3724 My commission expires 03/24/2005 25 Patterson-Gordon Reporting, Inc.

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Lie page 18 46 11 19 53 12 2423 1.-

Otherwite instead of that Transcription Recommendetions

"Staph" should be staff"

Staff cardiologist

and any other lines where it is used incorrectly