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	1	The State of Ohio,)) SS:
	2	County of Cuyahoga.)
	· 3·	IN THE COURT OF COMMON PLEAS
	4	Thomas J. Lyzen,
	. –	Administrator of the Estate of Thomas J. Lyzen, II,
	5	et al,
	6	Plaintiffs,
	7	VS. CASE NO. 307715
	8	Chandrakant Patel, M.D.,
	9:	et al,
	10	Defendants.
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	13	Deposition of a Defendant,
	14	MARC R. LEVINE, M.D., by telephonic means, called
	15	by the Plaintiffs as upon cross-examination,
		taken before Kathleen A. Hopkins Durrant, a
	16	Notary Public within and for the State of Ohio,
	17	at the Offices of Becker & Mishkind Co., LPA, 134
	18	
	19	Middle Avenue, Elyria, Ohio, on Tuesday, the 21st
	20	day of October, 1997, at 10:30 a.m., pursuant to
	21	agreement of counsel.
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		Kathleen A. Hopkins & Associates
		Kathleen A. Hopkins & Hobella 300 Loomis Building Elyria, Ohio 44035 216-323-5620

and the second

APPEARANCES: 1 On behalf of the Plaintiffs: 2 Michael F. Becker, Esq. 3 Suzanne Veverka, R.N. Becker & Mishkind Co., LPA 4 134 Middle Avenue Elyria, Ohio 44035 5 On behalf of Defendant Dr. Levine: 6 Anna Moore Carulas, Esq. 7 Jacobson, Maynard, Tuschman & Kalur Co., LPA 1001 Lakeside Avenue 8 Suite 1600 Cleveland, Ohio 44114-1192 9 On behalf of Defendant Dr. Patel & Dr. Zahka: 10 Cheryl O'Brien, Esq. 11 Jacobson, Maynard, Tuschman & Kalur Co., LPA 1001 Lakeside Avenue 12 Suite 1600 Cleveland, Ohio 44114-1192 13 On behalf of Defendant Dr. Vanhare: 14 Linda Epstein, Esq. 15 Jacobson, Maynard, Tuschman & Kalur Co., LPA 1001 Lakeside Avenue 16 Suite 1600 Cleveland, Ohio 44114-1192 17 On behalf of Defendant University 18 Hospitals of Cleveland: 19 George M. Moscarino, Esq. Arter & Hadden, Esqs. 20Suite 1100 925 Euclid Avenue 21 Cleveland, Ohio 44115-1475 22 23 24Also Present: Lee Ann Lyzen 25

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1	PROCEEDINGS
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	CURRICULUM VITAE MARKED PLAINTIFF'S EXHIBIT
3	1 FOR IDENTIFICATION.
4	<u> </u>
5	MR. BECKER: Let the record
б	reflect this is the discovery deposition of Dr.
7	Marc Levine being taken by telephonic means. And
8	can we have a waiver of any defects in the manner
9	that we're taking this deposition?
10	MS. CARULAS: Yes.
11	MR. BECKER: And can we also
12	
13	have an agreement that the Doctor can be sworn by
14	an Ohio Notary?
15	MS. CARULAS: Yes.
16	MR. BECKER: Okay. If you
17	would proceed, Kath, to swear the Doctor we'll
18	get underway.
19	* * *
20	MARC R. LEVINE, M.D.,
21	of lawful age, a Defendant herein, called
22	by the Plaintiffs for the purpose of
23	cross-examination as provided by the Ohio
24	Rules of Civil Procedure, being by me
25	first duly sworn as hereinafter certified,

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deposed and said as follows: 1 CROSS-EXAMINATION OF MARC R. LEVINE, M.D. 2 BY MR. BECKER: 3 Doctor, would you tell us your full name, please? 4 Ο. Marc R. Levine. 5 Α. And what is your business address? Ο. 6 The Childrens Regional Hospital at Cooper 7 Α. Hospital, University Medical Center, Plaza 509 or 8 309, excuse me, Camden, New Jersey. 9 Okay. Doctor, your counsel has been kind enough 1.0 Ο. to recently provide me with a copy of your vitae, 11 which we have marked for purposes of this record 12 as Levine Exhibit 1. 13 And at the very end of the vitae it's noted 14 as revised October of 1997, so would it be safe 15 for me to assume that this vitae is in fact 16 current? 17 Hello. ο. 1.8We're here. Can you hear us? 19 Α. Yes. 20Ο. Did you hear my question, Doctor? 21 You asked if my curriculum vitae was current? 22 Α. Yes. 23 Ο. I answered yes. 24 Α, Okay. 25 Ο.

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Sorry you couldn't hear me. Α. 1 Doctor, have you had your deposition taken 2 Ο. before? З That's correct, yes. Α. 4 I just want to review the ground rules for Okay. 5 Ο. you before we get underway. б This is a question and answer session under 7 It's important you understand the question oath. 8 that has been asked. If the question doesn't 9 make sense or is inartfully phrased, I'd ask you 10 to tell me so and I'll attempt to rephrase or 11 restate the question. Okay? 12 Yes. 13 Α. Also it's very important that you answer verbally 14 Ο. because it's difficult for our Court Reporter to 15 take down head nods or uh-huh, and so we don't 16 have to figure out what you meant by that. So if 17 you answer affirmatively we'd ask you to use the 18 word yes and of course negatively no. Okay? 1.9 Okay. 20 Α. However, unless you indicate otherwise to us 21 Ο. today, I'm going to assume that you have fully 22 understood the question that has been posed and 23 you are giving your best and most complete answer 24today. Fair enough? 25

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l	Α.	Fair enough.
2	Q.	Okay. Doctor, would you tell me each and every
3		thing you have reviewed in preparation for this
4		deposition?
5	Α.	I have reviewed the hospital records of the first
б		admission, slides dated July, July 15th through
7		August the 5th; depositions of Dr. Vanhare, Dr.
8		Zahka and Dr. Patel; glanced over the records
9		from the second admission.
10	Q.	Anything else?
11	А.	That's everything.
12	Q.	Do you have any personal notes or are there any
13		personal notes that you generated as a result of
14		your care on this particular child?
15	A.	No.
16	Q.	And that question applies whether in the chart or
17		outside of the chart. So the answer also would
18		be no?
19		Correct.
20	Q.	Okay. Can you explain to me why there is no
21		entry by you in the chart?
22	A.	Can you specify?
23	Q.	I'm sorry, we didn't hear that.
24	A.	Are you referring to a specific period?
25	Q.	Right. Maybe I should precede that question by

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telling you to be fair with you, Doctor, that it 1 has been represented to us, Plaintiff's counsel, 2 that you were the, you were the pediatric 3 cardiologist on service from approximately the 4 17th of July, 16th of July until August 5th. 5 My first question to you, is that 6 representation accurate? 7 I believe that could be inaccurate. 8 Α. Okay. 9 Ο. I was on service according to my recollection 10 Α. between July 18th and July 22nd. Following that 11 I went on vacation. On those four days, that was 12 a Monday through a Thursday, that I was on 13 service. Initially I was on service through 14 August 1st. 15 We didn't hear that. 4 16 ο. August 1st, August 5th I was also on service. 17 Α. So you were on service from the 18th to the 22nd 18 Q. and then from the 1st to the 5th? 19 That's the 18th through the 21st. 20 Α. Okay. And then August 1st through August 5th, 21 Ο. correct? 22 That is our recollection, yes. 23 Α. What is the basis for that recollection? 24 Ο. I reviewed that with, I have a personal scheduler 25 Α.

that I had some of my old schedules in. 1 Are those documents still in existence? 2 Ο. No, not documents, electronic Wizard. As far as 3 Α. I know the original schedules are not in 4 existence. I certainly don't have any of them. 5 Well, whose Wizard was this that you reviewed? 6 Ο. My own. 7 Α. So based on your Wizard you were taking care of 8 Ο. Tom Lyzen or at least were the pediatric 9 cardiologist on service for approximately seven 10 days of his first hospitalization? 11 That's including both periods. It was originally 12 Α. four days, yeah, and another four days towards 13 the end. 14 Okay. 15 Ο. I was on service. I was not taking care of him 16 Α. directly. 17 Okay. Well, who would have been on service from Ο. 1.8 the 15th through the 18th based on your 19 knowledge? 20 I have no knowledge of that. 21 Α. And who would have been on service between the 22 Ο. 21st and August 1st? 23 Again, I have no knowledge of who was on. I just 24Α. have, I have my records the days I would have 25

9 been rendering the service. 1 All right. Well, then how many echoes were done 2 Ο, and/or interpreted during those approximate eight 3 days that you were in charge of Tom's cardiology 4 care during Tom's first hospitalization? 5 I think I have to object to the phrase in charge Α. 6 of Tom's cardiology care. We were consulted, and 7 initially in reviewing the records we'd have done 8 a consult on him. I hadn't done it, but one of 9 my colleagues had. 1.0 The echoes that I can see from my review of 11 the record over that -- actually there was an 12echo done -- would you rephrase the question 13 again so that --14 I sure can, Doctor. In fact, I might be able to Q. 15 answer it myself. 16 How many echoes were done? 17 Α. Well, I see an echo done on the, on the 17th. 0. 18 Correct. 1.9 Α. And did you have any input on that echo; did you Ο. 20 intrepret it or relay the interpretation? 21 My recollection is of it being interpreted by Dr. Α. 22 Patel. 23 Maybe we should start with your independent 24 Q. recollection of this particular case. 25

What is your recollection of this case 1 relative to who was requesting input from you and 2 who were you getting back to and what kind of 3 input Dr. Patel was giving you, what is your 4 recollection of that? 5 I have very little recollection of this case. Ιt 6 Α. was over three years ago. Really recall very 7 little about it. 8 Well, the first echo was done on the 15th of 9 Q. July, the second, July 17th. Are you saying that 10 you probably were involved in relaying the 11 interpretation of the 17th echo to neonatology 12and providing them some advice? 13 I again have very little recollection of my 14 Α. involvement in the case. 15 Okay. Well, the next, the third echo was done 16 Ο. apparently on the 21st of July. What likely 17 would you have done vis-a-vis receiving input 18 from Patel as well as giving input to neonatology 19 on the 21st? 2.021st of August? 21 Α. Of July. 22 Ο. Excuse me, of July. 23 Α. I guess, could you rephrase the question? 24I'm not quite sure what you're asking, sir. 25

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		Well, I'm interested in the interplay between Dr.
1	Q.	Patel, you, while you're on service and
2		
3		neonatology. How did it work, what input did you
4		give to neonatology?
5	Α.	Are you asking what specifically in this
6		instance, in this case?
7	Q.	Yes.
8	А.	I have no recollection of directly caring for
9		this patient.
10	Q.	Then I'm assuming that you did not care for this
11		patient during his second hospitalization?
12	А.	According to my review of the chart I was not
13		directly involved in Thomas' care during his
14		second hospitalization.
15	Q.	Okay. Were you involved in any conferences
16		regarding Thomas, that these conferences occurred
17		during the second hospitalization?
18		MS. CARULAS: Note my objection
19		to any conferences. This is Anna Carulas.
2.0	Α.	I have no direct recollection of specifically
21		being involved in conferences. We had weekly
22		conferences. I noted in some of the depositions
23		that was already explained to you. Physically I
24		would have been at those conferences, but at this
2 5		time I don't recall specific conversations.

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1	Q.	All right, Doctor. Let me ask you a few
2		questions regarding your vitae.
3		You did a fellowship in pediatric cardiology
4		in the New York City region, is that correct,
5		Long Island?
6	Α.	It was Long Island Jewish-Hillside Medical Center
7		in New Hyde Park.
8	Q.	Okay. And then you left your fellowship and then
9		you went to MCO in Toledo?
10	А.	Correct.
11	Q.	And you were at MCO for ten years?
12	A.	Correct.
13	Q.	And you came to UH in 1991?
14	Α.	Correct.
15	Q.	And you stayed from 1991 until 1996 and then you
16		left to take your current position?
17	А.	Correct.
18	Q.	What month in '96 did you leave?
19	Α.	That would have been July when I finished or the
20		end of June.
21	Q.	What was the reason you left UH to go to New
22		Jersey?
23	A.	Other opportunities.
24	Q.	I'm sorry, I didn't hear that.
25	А.	Other opportunities.
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1.	Q.	Did you leave voluntarily from UH?
2	Α.	Yes.
3	Q.	I see that you are an echocardiographer, is that
4	-	correct?
5	А.	Echocardiography is one of my skills, that is
6		correct.
7	Q.	From whom and when did you learn that skill?
8	А.	I initially learned echocardiography when I was a
9		fellow from various attendings in the program.
10		I've continued to learn it over the next 16 years
11		of my career. I really can't say I learned it
12		from any single
13	Q.	Source.
14	A.	Excuse me, I didn't hear your last statement,
15		sir.
16	Q.	I was just finishing your sentence. You
17		hadn't there's not a single source that you
18		learned it from?
19	A.	That's correct.
20	Q.	Okay. You didn't mention the echo films as
21		material you reviewed in preparation for this
22		deposition. Is it fair for me to conclude that
23		you have not recently looked at those, these echo
24		films?
25	A.	Referring to the videotapes?

Yes. Q. 1 Then I have not reviewed the videotapes, that is 2 Α. correct. 3 Okay. Based on the information you have at hand 4 Ο. and the material you've reviewed, did you 5 actually interpret the echoes while you were on 6 service for Tom Lyzen? 7 During the first admission? Α. 8 Yes. 9 Ο. I have no recollection or I have no, I have no 1.0 Α. record that I ever interpreted formally any of 11 the echoes that --12 That Dr. Patel read? 13 Ο. Is that a MS. CARULAS: 1.4question, Mike? I'm sorry. 15 It sounded like he MR. BECKER: 16 didn't finish his answer or we did not hear the 17 end of his answer. 18 I'll repeat it for you. 19 Α. I have no recollection or record that I 20 formally interpreted any of Thomas Lyzen's 21 echoes. 22 Okay. Ο. 23 During the first MS. CARULAS: 24hospitalization. 25

		During the first hospitalization.
1	Α.	All right. You're licensed in, you're still
2	Q.	licensed in Ohio to practice medicine?
3		
4	A.	I believe my license is still current in Ohio,
5		that is correct.
6	Q.	You're licensed in New Jersey, correct?
7	A.	That's correct.
8	Q.	Any other states?
9	А.	Pennysylvania.
10	Q.	Have you ever had your license suspended, revoked
11		or called into question by any state board?
12	A.	No, sir.
13	Q.	Have you ever had any hospital privileges
14		suspended, revoked or called into question?
15	Α.	No, sir.
16	Q.	How would you describe your current clinical
17		practice?
18	А.	They have a clinical cardiology program at the
19		hospital that involves outpatient echoes,
20		emanations. We bring our patients to St.
21		Christopher's Hospital in Philadlephia for
22		inservice catheterization and surgery.
23	Q.	Have you come into contact with Dr. Elvin Shin?
24	Α.	Personally, no.
25	Q.	Have you deferred interpretations of

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1		echocardiography, echocardiograms to him?
2	А.	Referred interpretations?
3	Q.	Yes.
4	А.	No, sir.
5	Q.	Have you or someone from your division consulted
б		with him?
7	Α.	I have not consulted with him. I can't tell you
8		specifically that someone from my division has.
9	Q.	Okay. What's the reason that you contact the
10		Philadelphia Childrens Hospital; for
11		intervention?
12	Α.	No, no. I said I didn't contact the Philadelphia
13		Childrens Hospital. I said that I have
14		privileges at St. Chritopher's Hospital and will
15		bring patients there when I will do inpatient
16		cardiac catheterizations or surgery, we'll
17		transfer the patients to St. Christopher's
18		Hospital.
19	Q.	I thought you said something about Philadlephia?
20	Α.	St. Christopher's Hospital is in Philadelphia.
21		There is a second Childrens Hospital in
22		Philadelphia known as Childrens Hospital of
23		Philadelphia, CHOP.
24	Q.	Okay. I'm sorry. I misunderstood you.
25	Α.	A separate institution.
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1	Q.	Okay. So you do the intervention at St.
2		Christopher's in Philadelphia?
3	A.	I will do invasive cardiology. I do cardiac
4		cahterizations. I generally have steered clear
5		of doing interventional cardiology in the last
6		few years.
7	Q.	Why?
8	Α.	Because it's a philosophical decision in some
9		ways in that there are people who subspecialize
10		in interventional cardiology and they're
11		available. It's to everybody's benefit to give
12		them the interventional cases. They can get the
13		most experience with them.
14	Q.	All right. So currently what is the reason that
15		you see people at St. Christopher's in
16		Philadelphia?
17	А.	I don't see people at St. Christopher's. I will
18		bring patients there because we do not have the
19		facilities at Cooper Hospital yet to perform
20		cardiac catheterization or surgery. We will
21		bring some of our patients there to perform those
22		services.
23	Q.	All right, Doctor, I want to talk a little bit
24		about your medical/legal experience.
25		Have you ever acted yourself as an expert in

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		18
1		a medical/legal matter?
2	Α.	Yeah, I have.
3	Q.	All right. Would you tell me a little bit about
4		how many cases?
5	А.	Over the years probably 15 or 20.
6	Q.	And do you keep an index or a log of the cases
7		that you participated in?
8	Α.	No.
9	Q.	What records are available that could tell you
10		the names of the cases and the attorneys that
11		hired you on the respective cases?
12	A.	I really haven't kept records over the years of
13		those. I mean, it would be very difficult to
14		give you any kind of a comprehensive list.
15	Q.	Have you ever, do you do work for both the
16		plaintiff patient as well as the defendant
17		medical provider?
18	A.	I have mainly done work for plaintiffs, but
19		probably one or two for defendants.
20	Q.	Can you think of some names of some plaintiffs'
21		attorneys that have consulted with you in the
22		last ten years?
23	A.	No. I really don't keep the names, a record of
24		those.
25	Q.	Do you have any active cases?

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1	Α.	There is one case that I'm working on currently,
2		but I don't think I'm really at liberty to give
3		you any details of that at this point.
4	Q.	Have you been identified as an expert in that
5		case?
6	Α.	I've actually been reviewing the records and I
7		don't, I haven't submitted a full report on that
8		yet, so I can't really say. I think I was asked
9		to review it as an expert witness.
10	Q.	But to your knowledge you can't say whether or
11		not you've been identified yet?
12	А.	I don't believe I have since I haven't submitted
13	5 *-	the report yet.
14	Q.	All right. Have you reviewed any cases as an
15		expert relative to, from the perspective of
16		whether there was a delay in diagnosis of aortic
17		or subaortic stenosis which had a negative impact
18		on the patient?
19	А.	Not that I recall at the time.
20	Q.	Okay. Have you ever gone and testified in the
21		Courtroom in a medical/legal case?
22	A.	I have been I have not gone to full
23		testimony. I think the most cases I have been
24		involved in have been through deposition.
2 5	Q.	Okay. You've given depositions, but when the

depositions occurred they would be at your office 1 either in New Jersey or in Ohio? 2 I can't recall where I -- I gave the depositions 3 Α. at various places. 4 Well, do you recall --Q. 5 I don't recall ever having to go to Court for a 6 Α. case. 7 Do you recall the name of the city where the case Ο. 8 was pending, city and state? 9 Sorry, when you say the case was pending, I don't 10 Α. know what you mean by that. 11 Well, for example, if you look at a case for me 12 Ο. it's probable that the case is pending in 13 Cleveland, State of Ohio, whereas, if you were 14 contacted by an attorney from Miami, it's 15 probable that the case was pending somewhere in 16 some city in Florida, State of Florida? 17 Where the case originated from, is what you're Α. 18 asking? 1.9 Yes, sir. 20 Ο. I have looked at cases, I believe, from, from Α. 21 Pennsylvania. There were probably several in 22 Ohio. I actually don't recall most of the 23 states. Again I don't --24What's the medical subject matter of cases, the 25 Ο.

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ones that you recall, what was the medical 1 subject matter? 2 The subject matter has generally been pediatric Α. 3 cardiac problems. They have ranged from 4 postoperative problems to problems, questions of 5 diagnosis, et cetera. 6 Okay. Do you belong to any type of a service, 7 Ο. Doctor, that promulgates your name to either a 8 plaintiffs' bar or defendants' bar? 9 A service? 10 Α. Yeah, a professional expert service, do you 11 Q. belong to any of those? 1.2 Yes. I work with a group called Medical Α. 13 Advisors. 14 And to your knowledge where are they located? 15 Ο. Somewhere in the Philadelphia region. 16 Α. All right. And how long have you been associated 17 Q. with Medical Advisors? 18 Maybe ten years. 19 Α. All right. Have you been associated with any 20 Ο. other medical expert service other than Medical 21 Advisors? 22 There's another in the Cleveland area, but I 23 Α. honestly can't recall his name at the moment. 24 Okay. Soponaro in Akron? Q. 25

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Say that again. 1 Α. Soponaro in Akron? 2 Ο. That, that could be it. Α. 3 Okay. 4 Ο. That could be it as a matter of fact. 5 Α. Doctor, let's talk a little bit about --6 Q. Guy was the first name. 7 Α. I don't remember his first name. 8 Ο. Guy Soponaro, I think that's actually the one 9 Α. that he had contacted me once or twice. 10 Doctor, let's talk a little bit about your 11 Q. experience as a defendant in a case. 12 How many times have you been a party 13 defendant in a case? 14 Note my MS. CARULAS: 15 objection. 16 Okay. You can MR. BECKER: 17 have a continuing objection, Anna, to this line 18 of inquiry. 19 How many times, Doctor? 2.0 Ο. Just once. Α. 21 Just one time. 22 Ο. Is that case still pending? 23 Α. No. 24 Okay. Where did that case, was that filed in 25 Q.

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l		Cleveland?
2	Α.	Filed in Toledo.
3	Q.	Toledo?
4	Α.	Right.
5	Q.	And what was the allegation against you at that
6		time?
7	Α.	It was a case where a technician hooked up an IV
8		line wrong, causing the patient to have a
9		reaction. I was the physician in charge of the
10		pediatric intensive care unit. The case was
11		settled out of Court. They determined there was
12		no admission of liability.
13	Q.	Okay. That's the only time, just one case other
14		than this case?
15	А.	The only time.
16	Q.	Okay. Doctor, would you define a couple terms
17		for me?
18		What does aortic stenosis mean?
19	А.	Aortic stenosis refers to narrowing between the
20		left ventricle and the aorta.
21	Q.	What does a hypoplastic left heart mean?
22	А.	That's such a generally used term, it's really
23		hard for me to define it. It refers to, in
24		general, smallness of the left heart, left side
25		of the heart.

1	Q.	Did you say smallness?
2	Α.	Smallness or decrease in size, that's correct.
3	Q.	What about the term cardiomyopathy, what does
4		that mean?
5	Α.	Cardiomyopathy is a very generic or generally
6		used term meaning disease of the heart muscle.
7	Q.	Would a congenital malformation fall under your
8		definition of cardiomyopathy?
. 9	Α.	Would you repeat that question, please.
10	Q.	Would a congenital physical malformation of the
11		heart fall within your definition of
12		cardiomyopathy?
13	Α.	No.
14	Q.	Do you have an opinion, Doctor, as to what the,
15		what the reason was that Tom Lyzen's physical
16		condition worsened between his first and second
17		hospitalization?
18		MS. CARULAS: Objection.
19	А.	That's the whole question? I don't think we
20		heard it at this end, sir.
21	Q.	Do you have an opinion today as to why Tom
22		Lyzen's heart condition worsened between his
23		first and second hospitalization?
24	Α.	No.
25	Q.	Have you talked to Dr. Zahka or Dr. Vanhare or

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Dr. Patel regarding this case?

2 A. No.

2	А.	NO.
з		Let me rephrase that. I did speak with Dr.
4		Patel at some point and learned that the case was
5		being investigated, but I have not spoken with
6		any of them regarding the details of the case. I
7		haven't spoken with any of them.
8	Q.	Do you recall, I'm assuming, Doctor, you don't
9		recall any specific conversations you've had with
10		Dr. Bailey, the neonatologist, that was
11		attending?
12	А.	No.
13	Q.	Would your Wizard reflect whether or not you ever
14		had any hands-on care of Tom?
15	A.	The only information stored in the Wizard were
16		dates, dates I have, days that I was on service,
17		the days that I was reading echoes. It's simply
18		reflections of my personal schedule.
19	Q.	Okay. If I were to ask you if you ever had any
20		actual hands-on care on Tom Lyzen, would you say
21		then that you don't know?
22	A.	I have no recollection, nor have I seen any
23		records that reflect that I had any hands-on
24		care.
25	Q.	Similiar question. Do you have any recollection

having any direct contact with Tom and Lee Ann 1 Lyzen, that's the parents of Tom Lyzen? 2 I have no recollection of ever meeting Mr. and 3 Α. Mrs. Lyzen. 4 Do you have any criticism of the care rendered to Ο. 5 Tom Lyzen by any medical provider? 6 NO. 7 Α. All right. Since you don't have a specific 8 Ο. recollection, tell me generally how it would work 9 if you were the pediatric cardiologist on service 10 and there would be a consult or request from 11 neonatology, explain to me generally how the 12 interplay would take place and specifically if 13 neonatology asks for another echo? 14 Can you be more specific with the question, 15 Α. because you asked first about a consult, then you 16 asked about an echo. Break that question up so I 17 can answer each part specifically for you. 18 I want you to assume it's true that there's Ο. 19 already been one consultation between your 20 service and neonatology, and then for whatever 21 reason you come on service and then there is a 22new request by neonatology for another echo. 23 What likely would take place between neonatology, 24 you and the person that was in charge of the echo 25

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service during that particular day? 1 Note my objection MS. CARULAS: 2 I think it's awfully broad as far as to that. 3 what would happen, but if the Doctor can answer 4 it. 5 Well, you know, it might vary depending on what Α. 6 the interplay of the attendings were at that 7 point. It's certainly not unusual that if a 8 specific, if an echo were ordered directly by the 9 neonatology service, it could have been read by 10 the person reading echoes and the person on 11 service may not have been involved at all. 12If, on the other hand, they asked us to 13 reconsult or spoke with us, curbside consult is 14 the word, just without asking to formally 1.5 consult, I may have reviewed the echo with Dr. 1.6 Patel and may have also discussed it with Dr. 17 Bailey. 1.8 Would it be your routine to generate any notes as Q . . 19 the result of your contact with Dr. Patel and/or 20 with Dr. Bailey? 21 Certainly I would not have, not have generated Α. 22 any notes as a result of my discussions with a 23 person reading echos. It might have been Dr. 24 Patel during that period. 25

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If we were asked to formally consult on the 1 patient, I might have written a note or the 2 fellow on service with me might have written a 3 note, which often but not always I would have 4 cosigned. 5 All right. As far as you can tell there is not 6 Ο. even a cosignature by you within Tom Lyzen's 7 chart, correct? 8 There are echoes that were read That is correct. 9 Α. during the second admission by me that are signed 10 There are no progress notes that I was by me. 11 able to identify. 12 There's some notes by Dr. Fink on July 18th and 13 Ο. July 21st in the chart. Apparently, for whatever 14 reason, you didn't cosign them? Take the time to 15 look at it, Doctor. 1.6 Let me know when you're ready, Doctor. 17 What was the MS. CARULAS: 18 guestion again, Mike? 19 Well, first of MR. BECKER: 20 all, I wanted him to refresh his memory about Dr. 21 Fink's notes on the 18th and on the 21st. And 22 then I want to know if he was on service during 23 that period of time why doesn't his signature 24appear as cosigning Dr. Fink's? 25

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1	A.	Sometimes we would cosign the notes and sometimes
2		we wouldn't.
3	Q.	Okay. Do you see a cosignature over Dr. Fink's
4		on those two dates that might have been one of
5		your colleagues?
6	А.	I think that the signature over Dr. Fink's name
7		is Dr. Fink's signature. To the best of my
8		recollection he printed it and then signed over
9		it.
10	Q.	I'm sorry. We didn't hear that.
11	A.	If you'd look specifically on the note of the
12		18th, Dr. Fink's name is printed and I believe
13		that is his signature over the printing.
14	Q.	Okay. Well, is it your responsibility to oversee
15		all of Dr. Fink's work and interpretation and
16		management of a pediatric cardiology patient?
17	Α.	At the time it would have been my responsibility
18		to oversee Dr. Fink's activity. Here again, we
19		were not managing this patient if he was being
20		managed by neonatology.
21	Q.	So if Dr. Fink concludes there's no left
22		ventricle obstructive tract what does LVOT
23		mean?
24	А.	Left ventricular outflow track.
25	Q.	Okay. If Dr. Fink concludes that there is no

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left ventricular outflow tract obstruction and 1 your signature doesn't appear on it as a 2 cosignature, would it be safe for me to assume 3 that you agreed with his interpretation? 4 Objection to MR. MOSCARINO: 5 That's George Moscarino. the form. 6 We would, we would have routinely discussed that 7 Α. and most likely thought over it before Dr. Fink 8 had written the note. And my answer to your 9 question is, yes, it would be reasonable to 10 assume that I agreed with that. 11 I'm going to have THE WITNESS: 1.2to take a quick break here for just a minute. 13 Let us know Okay. MR. BECKER: 14 when your back. 15 * * * 16 Thereupon, a short recess was had. 17 Thereupon, the deposition was continued 1.8 pursuant to recess. 19 -1-20 Back on the MR. BECKER: 21record. 22 Doctor, do you currently have privileges at St. 23 Q . Christopher's in Philadelphia? 24 Was that a yes? Was that a yes or a no? 25

That was a yes. Α. 1 Okay. And you were on vacation according to your 2 Ο. Wizard between the 21st or between the 22nd and, 3 well, the last, from the 22nd through the end of 4 July, correct? 5 Correct. Α. 6 Can you tell us based on the information you have 7 Q. at hand as to which pediatric cardiologist was in 8 charge of Tom Lyzen's care between July 16th and 9 July 17th and also between July 22nd and July 10 25th? 11 I have no records of that. 12Α. Who, if anyone, would be in the best position to 13 Ο. know that data? 14 I have no information to help you with that, sir. Α. 15 Doctor, there's a nurse's note on July 21st 16 Ο. regarding the ventilation settings on Tom Lyzen 17 and the nurse's notes reflect on the 21st that 18 they're going to discuss a decrease in oxygen 19 setting with a Dr. Patel. 20 If Dr. Patel on the 21st was merely on echo 21 service, why would the nurses be contacting him 22 on that date? 23 Mike, we don't MS. CARULAS: 24 have that in front of us. You want us to find it 25

or --1 No, no. MR. BECKER: 2 I just want you, Doctor, I want you to assume 3 Ο. it's true that there is a note under the nurse's 4 -- under the ventilation setting on the 21st, 5 and it reflects that oxygen concentration on the 6 ventilation system was decreased after 7 discussion, after discussion with Dr. Patel. 8 I don't know. Α. 9 Can we agree, Doctor, that if a pediatric 10 Ο. cardiologist is purely on the echo service, 11 theoretically he should not be having any direct 12 contact with the parents and/or with the nurses? 13 Objection. MS. CARULAS: 14 I also object MR. MOSCARINO: 15 to the form. 16 I guess I'm not sure what you're asking. I don't 17 Α. know how to answer that question. 18 Well, let's put it in another, in another 19 Ο. phrase. 20 If someone was purely on echo service, would 21 you be surprised if the nurses were consulting 22 with that physician regarding the patient's care? 23 No. 24Α. Why? 25 Ο.

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You know, if an echo were ordered I'd have Α. 1 reported the echo directly to the people. 2 Generally nurses don't consult directly with, you 3 know, regarding the care. It's physicians who 4 consult, but aside from that, you originally 5 asked the question would he be in contact with 6 the parents. 7 Yeah, I was going to follow-up with that Ο. 8 question, but go ahead and answer it. 9 Let me kind of cut to the chase. A lot of times 10 Α. if the physician is involved previously with the 11 care or involved with the parents, he may be 12 If not, why they're speaking with the parents. 1.3 not exclusively locked into just reading echoes 14 and you can't talk with anybody. So, you know, 15 the answer is, no, that would not surprise me 16 that someone who was reading echoes that month 17 might also have some input or might have spoken 18 with the nurses or might have even spoken with 19 the parents, that would not be unusual in our 20 practice. 21 Doctor, can we agree that if, that if aortic 2.2 Ο. stenosis is suspected by a pediatric cardiologist 23 that particular pediatric cardiologist and/or his 24colleagues and group have a responsibility to 25

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define exactly where the aortic stenosis is and 1 to also quantify the severity of the aortic 2 stenosis? 3 Objection to MR. MOSCARINO: 4 the form. 5 I object as MS. CARULAS: 6 well. 7 Will you explain what you mean by a Α. 8 responsibility? 9 Well, do they have --10 Ο. I'm not sure exactly how you want me to answer 11 Α. that question either. 1.2Well --13 Ο. It such a general --Α. 14 Well, if you're seeing a patient as a pediatric 15 Q. cardiologist and if there's a suspicion that 16 there might be aortic stenosis, do you then have 17 a further duty to attempt to delineate exactly 18 where the aortic stenosis is and to quantify the 19 seriousness of the aortic stenosis? 20 Well, we generally do our best to assess and Α. 21 define the lesion with the knowledge and the 22 tools that we have at hand. 23 Okay. Not only do you have a responsibility to Q. 24find the lesion, but you have to also attempt to 25

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quantify the lesion as something, whether it's 1 mild, moderate, severe or critical, correct? 2 Yes. Α. 3 And what are the tools at hand that will enable 4 Ο. you to, number one, isolate the lesion, and, 5 number two, to determine its severity? 6 First examine the patient and use the 7 Α. stethoscope, and your hands and feel the heart, 8 listen to the heart, feel the pulses. 9 One would secondly obtain an echocardiogram, 10 a chest x-ray. I suppose that I would use an 11 echocardiogram, but if I couldn't, didn't feel 12 that I was defining it well enough, you know, one 13 might resort to a cardiac catheterization. 14 One of the things you would look for in 15 Ο. determining the severity of the lesion and the 16 impact of that lesion on the left side of the 17 heart is something called pressure gradient, is 18 that correct? 19 A gradient is one way of defining the severity of 20Α. the aortic stenosis. 21 And how do you determine the gradient? 22 Ο. You determine multiple ways. 23 Α. Well, please educate me. What are the multiple 24Ο. ways you can choose to determine the gradient? 25

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Probably the simplest way of determining a Α. 1 gradient is with the echocardiogram. 2 Okay. And does that take, does something called Ο. 3 the angle of interrogation of the jet come into 4 play? 5 In most echocardiograms done today we do not 6 Α. quantify the angle of interrogation, because in 7 this situation we're able to line up close enough 8 so it doesn't become a factor. 9 Well, ideally what do you want the angle of Ο. 1.0 interrogation to be? 11 We determine, we're trying to line up for a 1.2 Α. gradient high by, we generally try to keep the 13 angle as close to parallel to the echo beam as we 14 That generally does not become a can. 15 consideration to most of the patients, 16 particularly in this scenario, it is not an 17 important issue. 1.8 Why wouldn't it be an important issue in this 1.9 Ο. case? 20 Because we're able to line up typically for the 21 Α. aorta and the outflow track without problems. 22 When you're within 10 or 20 degrees the actual 23 calculated change is insignificant. 24If you are outside of 20 degrees what is the 25 Ο.

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impact on the end product of pressure gradient? 1 What do you mean outside? 2 Α. When you're graded in 20 degrees. 3 Ο. Twenty-five degrees there's no impact. Usually I 4 Α. said within 20, 30 degrees. At 90 degrees you 5 can't measure the gradient at all. But as I said б to you, in this particular scenario looking for 7 these types of deficits, it generally has very 8 little effect whatsoever. 9 We didn't hear that, Doctor. Looking for these 10 Ο. type of defects -- what did you say after that? 11 The setting looking for left ventricular output 12 Α. tract gradients, my experience is it has little 13 or no impact at all in order to measure the 14 gradients accurately. 15 Okay. Would you agree that if the angle of 16 Ο. interrogation is not close to parallel that could 17 lead you to a falsely low pressure gradient? 1.8 Anything is possible. 19 Α. Well, isn't it likely that if you measure the 20 Ο. flow at anything greater than 20 or 25 degrees, 21 the end product pressure gradient is likely to be 22 falsely low? 23 I said it is possible. I would have to look at, 24Α. you know, a specific echo to give you a specific 25

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answer. You're asking in generalities. I can 1 only answer in generalities. 2 Doctor, around the 21st or -- I don't know if I 3 Ο.

asked you this question. I think you were about 4 to take a bathroom break. Same question I asked 5 earlier about the note on the 18th, I'm going to 6 ask you this on the note on the 21st. Because 7 your name does not appear to be cosigned on the 8 21st, would it be safe for me to assume that you, 9 not withstanding your cosignature, agree with Dr. 10 Fink's assessment? 11

Yes. Α. 12

Doctor, were you and Dr. Fink able to Q. 13 categorically rule out significant aortic 14 stenosis as a cause of Tom Lyzen's signs and 15 symptoms between the 15th of July and the 22nd of 16 July? 17 Object to the MR. MOSCARINO: 18

form. 19

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20 but go ahead.

Could you rephrase the question a little bit for 22 Α. me, please. 23

MS. CARULAS:

We'll first try to repeat and then if you still 24Ο. have a problem I'll rephrase it. 25

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I object as well,

Would you repeat MR. BECKER: 1 that question. 2 (Notary read back last question.) 3 Same objection. MR. MOSCARINO: 4 I, again it's such a general question, signs and 5 Α. symptoms, specify which signs and symptoms, kind 6 of verify for me when you say categorically what 7 you mean and then I'll try to answer the question 8 for you. 9 Well, were you able to, were you and Dr. Fink 10 Ο. able to rule out aortic stenosis as a cause of 11 the signs and symptoms that Tom Lyzen was 12 demonstrating between the 15th and the 21st? 13 Objection. MR. MOSCARINO: 14 Could you specify which symptoms and which signs 15 Α. you are referring to, please? 16 Well, what about, how about respiratory distress? 17 Ο. I believe that we were able to rule out aortic Α. 1.8 stenosis as a cause of Thomas' respiratory 19 distress. 20 And was that before or after Thomas' ductus Ο. 21 closed? 22 I would have to review the records, if you give 23 Α. me one minute, as to when his ductus closed. I 24 don't have any -- hold on one minute. 25

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Okay. Ο. 1 Could you repeat the question again, please? 2 Α. (Notary read back last question.) 3 I think we ruled it out both when his ductus was Α. 4 open and when his ductus had closed. 5 Tell us, Doctor, how did you rule it out? Ο. 6 No, we felt there was no significant heart 7 Α. problem at that admission. 8 And how did you make that determination? 9 Q . In terms of as a cause of his respiratory 10 Α. distress. 11 How did you make that determination that --12 Ο. What did he say MR. BECKER: 13 about significant? Hold on, Doctor. I'm going 14 to -- what did he say about significant. 15 (Notary read back last answer.) 16 Doctor, you just said that you felt there was no 17 Ο. significant heart problem during that admission, 18 and I'm asking you how were you able to make that 19 conclusion; what tests did you run to make that 20conclusion? What was the bases for that 21 conclusion? 22 I believe I, you know, as I told you earlier, I 23 Α. have very little direct recollection of this 24patient. What I am offering you is based on my 25

review of the records as I see them today. 1 Being tested, I would have to tell you at 2 this time for me to make that conclusion is the 3 fact that the echocardiogram shows no significant 4 aortic stenosis. 5 Does or does not? 6 0. Significant by my definition of severe or enough 7 Α. to be causing the respiratory distress. I′m 8 defining significant for purposes of this 9 discussion. 10 Well, how do you make that determination if the Ο. 11 aortic stenosis is severe enough to cause 12 respiratory distress? 13 It's just based on my experience of taking care 14 Α. of, you know, hundreds and probably thousands of 15 children like this. 16 What did you feel was responsible for Tom Lyzen's 17 Q. murmur? 1.8 I don't know that I had any feeling about it at 1.9 Α. the time. I have no recollection that I examined 20 him for his murmur at the time. 21 What did you feel was responsible for Tom Lyzen's 22 Ο. tachypnea, tachypnea? 23 Tachypnea is rapid heart or rapid breathing. 24Α. Right. 25 Ο.

I, again I have no recollection that I examined Α. 1 him or record that I examined him to tell you 2 what I felt was due to tachypnea. 3 Mike, did we lose MS. CARULAS: 4 you? 5 I'm here. I was MR. BECKER: б waiting for a response. 7 We're here. I guess I didn't hear the question. 8 Α. I'm sorry. 9 Neither did I. Ι MS. CARULAS: 10 didn't know there was a question pending. 11 Well, the Doctor said I'll tell you what is 12 Ο. responsible for his rapid breathing and then we 13 heard some pages turn and we were waiting for an 14 answer. 15 No, I believe -- can we have the record be 16 Α. reread. I don't believe I said that. 17 He did answer MS. CARULAS: 1.8 that question. At least that's what I heard, but 19 if you want her to reread it, go ahead. 20 MR. BECKER: Did anybody else 21 Did you, Susie? hear that? 22 (Notary read back last answer.) 23 Okay. I'm sorry, Doctor. I misunderstood you. Ο. 24 Doctor, based on the chart is it likely you 25

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1.		concluded that the reason that there was a
2		finding, a new finding of increased gradient
3		pressure was because Tom was on inotropic drugs?
4	A.	Yes.
5	Q.	Okay.
6	Α.	If you are referring to the note on or around the
7		21st, I believe is what you are, is that it?
8	Q.	Right.
9	А.	The answer to your question is yes.
10	Q.	Did you consider as a possible cause of the
11		increase in pressure gradient ductal closure?
12	Α.	No.
13	Q.	Why not?
14	А.	Has nothing to do with the gradient.
15	Q.	Is it your opinion, Doctor, that pressure
16		gradient won't be impacted closure of the ductus?
17	A.	It's my opinion that the pressure gradient in
18		this case will not be impacted by the closure of
19		a small ductus.
20	Q.	And what's the basis of that opinion?
21	A.	Sixteen years of experience.
22	Q.	Doctor, were you relying on Dr. Patel's
23		interpretation of the echoes during the first
24		hospitalization?
25	A.	Define relying, please.

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Ŷ.

1	Q.	Well, as part of your opinion that there was no			
2		significant aortic stenosis, is one of the bases			
3		for that opinion Dr. Patel's interpretation of			
4		the echoes?			
5	Α.	As I review the chart today, not having reviewed			
6		the echos recently, I would have to rely on the			
7		written record of Dr. Patel's interpretation of			
8		the echoes.			
9	Q.	All right. So that is one of the bases?			
10	Α.	What I base my opinion on, on the 21st in 1994, I			
11		have to tell you I don't recall.			
12	Q.	Doctor, if cardiology service in '94 was			
13		contacted on several occasions to evaluate an			
14		infant's heart during his newborn admission, did			
15		the cardiology service have a routine practice to			
16		see the patient prior to his discharge from the			
17		NICU?			
18		MS. CARULAS: Are you done?			
19		MR. BECKER: I'm done.			
20	Α.	No.			
21	Q.	Under what circumstances or would it solely be at			
22		the discretion of the cardiologist on service as			
23		to when a pediatric patient is seen prior to			
24		discharge?			
25	A.	Please repeat the question.			

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(Notary read back last question.) 1 Generally my understanding is that it would 2 Α. generally be the responsibility of the managing 3 service as to when we would see the patient prior 4 to, or who would see the patient prior to 5 discharge. б Doctor, if you have stenosis of some 7 Ο. significance, severe to critical, and it is not 8 addressed, in other words, no intervention, and 9 that is permitted to continue, isn't it likely 1.0 that will have a negative impact on LV function? 11 Note my objection MS. CARULAS: 12 to the question. 1.3 Can you ask a more specific question? That's Α. 14such a general question again. I have difficulty 15 giving you any kind of a reasonable answer. 16 Isn't one of the risks of untreated, severe 17 Ο. aortic stenosis a compromise of LV function? 18 Yes, I think that that's a fair statement. 19 Α. What does the term or the phrase EFE mean Okay. 20 Ο. to you, Doctor? 21 Endocardial fibroelastosis. 22 Α. Okay. Do you believe, Doctor, that that 23 Ο. condition can be acquired as well as congenital? 24I think it's very difficult to answer that 25 Α.

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question since we don't fully understand all the 1 causes of the physiology surrounding patients 2 with endocardial fibroelastosis. 3 Isn't there an evolving trend in pediatric Ο. 4 cardiology in the last five years to believe that 5 EFE is more likely acquired than congenital? 6 It's a -- I'm sorry, I can't answer that question 7 Α. I don't know. for you. 8 Have you seen any literature, are you aware of Ο. 9 any literature to that effect? 1.0No. sir. 11 Α. Are you still there? 12 Yes. Bear with me, Doctor. 13 Ο. Doctor, were you able to discern, given your 14 close workings with Dr. Patel in 1994, as to his 15 competency in reading echoes in that year? 16 Yes. 1.7 Α. And what did you conclude? 18 Q. I concluded then and I conclude now that Dr. 19 Α. Patel was an excellent pediatric cardiologist and 20 has excellent skills in interpreting pediatric 21 echocardiograms. 22 Can the size of the aortic annulus decrease in Ο. 23 size in the early neonatal life? 24I'm not aware of any documented evidence of 25Α.

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children whose annulus --1 We didn't hear the end of that. One more time. Ο. 2 I'm not aware of any documented evidence to show 3 Α. that the aortic annulus had decreased in size in 4 the neonatal period. Anything is possible. 5 Did you feel that Thomas Lyzen's problems in his б Q. first hospitalization were related to RDS? 7 Repeat the question, please. 8 Α. I'm assuming that you concluded that Thomas' 0. 9 respiratory problems were related to his RDS 10 during Tom's first hospitalization? 11 From my review of the record at this time I think 12 Α. that the answer to that question is, yes, I think 13 that is what is his respiratory problems were due 14 to. 15 And it's not unusual, is it, Doctor, to have 16 Ο. neonatology feel that he's got a problem with the 17 heart and cardiology feel that it's more RDS, is 18 that an unusual scenario where there is that kind 19 of a disagreement? 2.0 It is not unusual for specialists of different Α. 21 backgrounds to have different opinions. 22Okay. Dr. Bailey charts that the cardiology 23 Q . service in the first hospitalization was 24 insistent that this child's problem was not 25

related to his heart. 1. What's the date MR. MOSCARINO: 2 of that entry? 3 You are talking MS. CARULAS: 4 about the discharge summary, right? 5 I can't answer that off the top of my head. No. 6 Ο. Doctor, can you agree with me that -- I 7 think that is the discharge summary -- Doctor, A can you agree with me that before your service 9 would be insistent on a condition they'd better 10 well be certain that there is no lesion of any 11 significance in Tom Lyzen's heart, correct. 12 Object to the MR. MOSCARINO: 13 form. 14 I don't MS. CARULAS: 15 understand the question. 16 I don't understand the question either, if you'll Α. 1.7 excuse me. 18 Before you as a pediatric cardiologist would 19 Q. become insistent to neonatology that the problem 2.0is not the heart, you have a duty and 21 responsibility to be absolutely certain by 22whatever means available to insure that Thomas 23 Lyzen did not have any significant lesion in the 24left side of his heart? 25

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Note my objection MS. CARULAS: 1 to the question, because we all know in life 2 nothing is absolutely certain. 3 And that nobody MS. O'BRIAN: 4 is clairvoyant, I might add. 5 That's great. I'm MR. BECKER: б going to repeat my question. You guys have all 7 the objections you want. 8 Doctor, you listen to my question and answer it Ο. 9 if you can. 10 (Notary read back last question.) 11 After hearing your question I'm not really sure 12 Α. what you mean by insistent. I previously 13 answered the question when you said, when you 14 asked it in a similar form that we would use all 15 the means available to come up with the best 16 diagnosis and quantification of the patient's 17 lesion. 18 And you have a duty to utilize all the means Q'. 19 available to quantify that lesion before you 20 might, so as you can avoid giving neonatology the 21wrong information, correct? 22Note my objection MS. CARULAS: 23 to that. 24 Why don't you be a little more specific as 25

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to what you feel could have been done or what 1 you're saying could be done under the 2 circumstance. Insistent, I don't -- why don't 3 you ask specific questions whether or not 4 something should have been done. 5 How do you rule out a lesion of some significance 6 Ο. without doing a catheterization, Doctor? 7 Again it's a very general question you're 8 Α. asking. I think I answered you earlier how we 9 would normally evaluate children with aortic 10 stenosis. I don't know what other questions you 11 have, but, I mean, that's a very general question 12 you're asking me. 13 Let's go off the THE WITNESS: 14 record for a second. I'd like to take another 15 quick break. Excuse me. 16 * * 17 Thereupon, a short recess was had. 18 Thereupon, the depostion was continued 19 pursuant to recess. 20 * * 21 We're Okay. MS. CARULAS: 22 back. 23 Doctor, talking about aortic stenosis and severe 24Q . to critical aortic stenosis, what are the means 25

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available for intervention with those conditions? 1 Critical valvular stenosis or subarotic stenosis? 2 Α. I'd like you to be a little more specific. 3 Let's talk about, let's break down each one. Ο. 4 How do you address valvular and subvalvular? 5 The modalities for valvular aortic stenosis б Α. include balloon angioplasty and surgery. 7 Okay. Is one likely more successful than the 8 Ο. other? 9 That's really so dependent on the case. 10 Α. Okay. 11 ο. There's a number of factors that will mitigate Α. 12whether an angioplasty, whether a valvularplasty, 13 balloon valvularplasty, or surgical 14 valvularplasty has a success rate. 15 And what are the --16 ο. I can't answer the question more specifically 17 Α. than that. 18 What are the most important factors as to Q. 19 success? 2.0Of a balloon valvularplasty? 21 Α. Or surgery, yes. 22 Q. A lot of them are very specific things that 23 Α. involve the, either the valve, the thickness of 24the leaflet, size of the aortic annulus, whether 25

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1		or not it's a bicuspid or tricuspid or a
2		unicuspid valve.
3	Q.	This valve was tricuspid but one of the leaflets
4		was foreshortened. Given that setting how would
5		that impact which direction you would go via
6		balloon valvularplasty or surgery and how would
7		that impact the likely success?
8	Α.	Well, when I saw the patient there really was no
9		indication, well, after to consider a
10		catheterization so I really couldn't answer that
11		question for you.
12	Q.	Right. But let's go back to speak in terms of
13		generalities.
14		If you had a patient that had aortic
15		stenosis and had a tricuspid valve with a
16		foreshortened leaflet, would that cause you to
17		lean towards a balloon valvularplasty more than
18		surgery?
19		MS. CARULAS: Note my objection
20		to this because he's here to talk about his care
21		and treatment clearly. Go ahead, Doctor.
22	A.	I would have to evaluate each case on an
23		individual basis. I think it's silly to try to
24		make generaliites in this area.
25	Q.	Well, what is your success rate, Doctor, whether
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you intervene or you refer the patient for 1 intervention with balloon valvularplasty for 2 aortic stenosis? 3 I don't have a specific data base or group of Α. 4 patients that I've evaluated where I could tell 5 you success or failure. б Let's talk about subvalvular stenosis. Okav. 7 Ο. How did you intervene or manage that condition; 8 same options? Was that a yes? 9 What's the last MS. CARULAS: 10 part of your question? What did you say, Mike? 11 What are the available intervention options with Ο. 12subvalvar? 13 I would have to say that the available 14 Α. There is the interventions are both the same. 15 option of balloon valvularplasty, also a surgical 16 There are a variety of surgical option. 17 options. 18 Doctor, did you note any left-sided lesions at 19 Q. autopsy or pathology of Tom's exploded heart? 20 I did not perform the autopsy --21 Α. Yeah, but as a result of your review of --22 Q. -- to answer your question. 23 Α. But as a result of your review, sir, did you 2.4 Ο. discern any lesions or narrowing in Tom's left 25

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1		side of the heart based on the pathology?
2	Α.	I, again, I reviewed a report, report as well as
3		I did and they felt that there was a most
4		moderate narrowing in the report. I did not
5		specifically review that autopsy specimen, so I
6		can't give you any more of a specific answer than
7		that.
8	Q.	You acknowledge, Doctor, that that pathology took
9		place after balloon valvularplasty was done on
10		Tom's heart, correct?
11	А.	I really wasn't involved in Tom's care at that
12		time, so I don't know how I can give you any more
13		specific opinion than I have already from the
14		record.
15	Q.	Doctor, other than balloon valvularplasty what
16		would cause an increase in the size of the aortic
17		annulus?
18	А.	As far as I know balloon valvularplasty does not
19		cause an increase in the size of the annulus.
20		Okay.
21	A.	The only thing that I know that causes the
22		annulus to increase in size is growth and time.
23		MR. BECKER: Okay. I'm
24		wrapping this down. We're going to go off the
25		record for a moment. So we'll be back to you

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folks in just a few minutes. 1 * * * 2 Thereupon, a discussion was had off the record. 3 4 Let's take a look at your interpretation of the 5 Ο. 8-31-94 echo. 6 Anna has stepped into the bathroom for just a 7 Α. minute. Could we wait until she gets back, 8 please. 9 Okay. Ο. 10 Thank you. 11 Α. You can give me the dates. I'll start to 12 look at that until she gets back. 13 It looks like 8-31-94. Ο. 14 Yes. 15 Α. 9-5-94, 9-8-94. 16 Ο. Excuse me. Let me write the dates down again. 17 Α. Give me them again. 18 8-31. Q . 19 Right. 20 Α. 9-5, 9-8, 9-10, 9-11. 21 Ο. Those five echoes? 22 Α. Yeah. 23 Ο. Doctor, before I go to those echoes, during 24the first hospitalization Tom Lyzen had blood 25

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56 pressure problems, maintaining an adequate blood 1 pressure. What do you attribute that problem to? 2 Would you -- on specifically which part of Tom's 3 Α. care are you referring to and I'll look it up. 4 During the first hospitalization. You mean which Ο. 5 day within the first hospitalization? 6 The patient had a number of problems. 7 Α. All right. Let's say the fourth day of the 8 Ο. hospitalization. 9 The fourth day. 10 Α. Generally it's happening on different days 11 for different reasons, I can't put a general 12 answer to that. 13 Okay. Can aorta stenosis and subaortic stenosis Ο. 14 cause the child to have a decrease in blood 15 pressure? 16 It depends upon what degree of aortic stenosis. Α. 17 Specify. 18 Any kind. 19 Q. Mild and moderate aortic stenosis cannot be 20 Α. expected to cause any problems with blood 21 pressure. The patient who had serious or 22 critical aortic stenosis who became shocky would 23 not unreasonably be expected to have it. 24Okay. All right. Let's go to the, to the first 25 Q.

echo that you interpreted. 1 Do you have it at hand, Doctor? 2 I have a study dated 8-31. Α. 3 Okay. You talk about --4 Ο. 1520. Ά. 5 Doctor, this severe subaortic and aortic valve 6 Ο. stenosis that you describe on 8-31-94, is that 7 something that likely was present during the 8 first hospitalization? 9 No. Α. 10And what can bring that condition about then 11 Q. between the first and second hospitalization? 12 I really can't say. I wasn't caring for the 13 Α. child in between then. Those are questions I 14 don't know. 15 Well, speaking generally then and just medically, 16 Ο. what can cause severe subaortic and aortic valve 17 stenosis occurring at approximately the child's 18 fifth week of life? 19 Repeat the question and kind of maybe be a little 20 Α. more specific. 21 What are the potential etiologies for aortic and 22 Ο. subaortic stenosis found at the fifth week of 23 life? 24You're asking such a general question. Generally 25 Α.

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these, the thing that's congenital aortic 1 stenosis, the cause of it is that the patient was 2 born with it. 3 That's right. And that's why I asked you, Ο. 4 Doctor, isn't it likely that this child had that 5 condition in the first hospitalization? 6 And I answered that he did have congenital aortic 7 Α. stenosis. I don't think we're arguing about 8 that. You're asking me about the degree. 9 Well, what was the degree of Tom's congenital 10 ο. aortic stenosis in his first hospitalization? 11 Mild. Α. 12 What was the degree of Tom's subaortic stenosis 13 Ο. in the first hospitalization? 14 Mild. Α. 15 What's the basis for that opinion? 16 Ο. The basis is my review of the records and the 17 Α. echocardiograms at the time. 1.8 The echocardiogram interpretation by Dr. Patel? Q. 19 Correct. 20 Α. Now, so I appreciate that one of the Okav. 21 Q. causes of finding subaortic, severe subaortic and 22 aortic stenosis at five weeks of life is that the 23 child was born that way. Taking that out of the 24picture, what are the other causes? 25

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Could you reread the question, please? 1 Α. (Notary read back last question.) 2 I guess, you know, the answer to your question 3 Α. is, I don't know, because it's so rare to see it 4 go from a mild initially to severe by a month of 5 age that I don't have anything to base causes 6 on. 7 One or two more questions. Just bear with me. 8 Q. Doctor, if you see in an echo interpretation 9 a size estimate of the aortic annulus and also 10 within that same interpretation of the size of 11 the aorta, would you expect them to be the same 12 or would you expect the aorta to be slightly 13 larger? 14 Typically -- what portion of the aorta are we 15 Α. talking about, are you referring to? 16 Well, it's difficult to tell from this reading, 17 Ο. so I can't answer that. 18 I can't answer your question. 19 Α. So some parts of the aorta might be larger than 2.0 Q. the aortic annulus by as much as two to three 21 millimeters in a neonate? 22 I'd say so. 23 Α. Okay, Doctor, MR. BECKER: 24 that's all the questions I have. The other 25

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60 attorneys may have questions. 1 No questions from MS. O'BRIEN: 2 me. 3 4 CROSS-EXAMINATION OF MARC R. LEVINE, M.D. 5 BY MR. MOSCARINO: 6 Doctor, I have a couple questions. Can you hear 7 Ο. me? 8 Doctor, my name is George Moscarino. I'm 9 the attorney for University Hospitals of 10 Cleveland. 11 You told Plaintiffs' counsel you don't have 12 any criticismS of the other care givers in this 13 case, am I right? 14 That is correct. 15 Α. I take it obviously that applies to Dr. Fink who 16 Ο. was a fellow at the time? 1.7 Correct. 18 Α. Dr. Fink as a fellow was working under the 19 ο. direction or the control of the guidance of you 20 and the other members of the Cardiology 21 Department, am I right? 22 Yes. 23 Α. And just so I'm clear on the roles of the various 24Ο. doctors here, the attending physician of record 2.5

1		was a Dr. Bailey, is that right, in the first
2		admission?
3	Α.	I believe that is correct. The patient was on
4		the neonatology service and Dr. Bailey is one of
5		the neonatologists or was at the time.
6	Q.	And then as far as the cardiologists getting
7		involved, they would have been consulted then by
8		Dr. Bailey, is that the way it goes?
9	А.	That is the way it goes, yes, sir.
10	Q.	Then Dr. Fink was working as a fellow on the
11		cardiology service which was consulted by the
12		neonatologist then, right?
13	А.	Correct.
14	Q.	Decisions ultimately on the diagnosis and the
15		reading of echocardiograms, those are made by the
15 16		cardiologists and not ultimately by the resident
16		cardiologists and not ultimately by the resident
16 17	A.	cardiologists and not ultimately by the resident staff like Dr. Fink or other physicians in training, am I right? Correct.
16 17 18	A . Q .	cardiologists and not ultimately by the resident staff like Dr. Fink or other physicians in training, am I right? Correct. And ultimate decisions regarding diagnosis and
16 17 18 19		cardiologists and not ultimately by the resident staff like Dr. Fink or other physicians in training, am I right? Correct. And ultimate decisions regarding diagnosis and whether intervention should take place, keeping
16 17 18 19 20		<pre>cardiologists and not ultimately by the resident staff like Dr. Fink or other physicians in training, am I right? Correct. And ultimate decisions regarding diagnosis and whether intervention should take place, keeping in mind some of the questions that Mr. Becker</pre>
16 17 18 19 20 21		<pre>cardiologists and not ultimately by the resident staff like Dr. Fink or other physicians in training, am I right? Correct. And ultimate decisions regarding diagnosis and whether intervention should take place, keeping in mind some of the questions that Mr. Becker gave you, those are decisions that would</pre>
16 17 18 19 20 21 22		<pre>cardiologists and not ultimately by the resident staff like Dr. Fink or other physicians in training, am I right? Correct. And ultimate decisions regarding diagnosis and whether intervention should take place, keeping in mind some of the questions that Mr. Becker gave you, those are decisions that would ultimately be made by the cardiologists and not</pre>
16 17 18 19 20 21 22 23		<pre>cardiologists and not ultimately by the resident staff like Dr. Fink or other physicians in training, am I right? Correct. And ultimate decisions regarding diagnosis and whether intervention should take place, keeping in mind some of the questions that Mr. Becker gave you, those are decisions that would</pre>

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	and an	6 2
		The attending cardiologists, yes, sir.
1	A.	
2	Q.	The what?
3	Α.	The attending cardiologist.
4	Q.	Okay. Who was the attending cardiologist in this
5		case?
6	Α.	There were several.
7	Q.	Can you name them for me?
8	Α.	Dr. Vanhare initially saw the patient. I was the
9		attending cardiologist for the dates that I
10		mentioned previously. It would be Dr. Patel, was
11		the attending cardiologist on service part of the
12		time. And I also believe Dr. Zahka was the
13		attending cardiologist part of the time.
14	Q.	Okay. And just so I'm clear, and keep in mind
1,5		that I represent Dr. Fink in the case, that he
16		was not an attending cardiologist, that being Dr.
17		Fink, right?
18	A.	That is correct.
19	Q.	And all those people you mentioned Dr. Zahka,
20		Vanhare, yourself and Patel, supervise the
21		fellows and the residents who work in training in
22		cardiology, true?
23	А.	Yes.
24		MR. MOSCARINO: That's all I
25		have. Thank you.
	Simulate and an allow for the	

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2		RECROSS-EXAMINATION OF MARC R. LEVINE, M.D.
3		BY MR. BECKER:
4	Q.	I have one or two questions relative to Dr.
5		Fink. Dr. Levine
6	А.	Is this Mr. Becker talking again?
7	Q.	Yes.
8	Α.	Yes.
9	Q.	Yes.
10	Α.	Okay.
11	Q.	You ready?
12	А.	Go ahead.
13	Q.	You in the course when you were back at
14		University Hospital a year or two ago, you relied
15		upon the clinical assessment of Dr. Fink for your
16		advice to him as well as to neonatology, correct?
17	A.	I guess I would object to your term relied upon.
18		I'm not sure what you mean by that. Generally we
19		worked in a team approach. I would review what
20		Dr. Fink had said and we would reach a final
21		conclusion.
22	Q.	Right.
23		And if you weren't there to make a physical
24		assessment of the patient you relied upon Dr.
25		Fink to do that, and you relied upon his accuracy

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64 in that assessment, correct? 1 It would not be typical that I would not be 2 Α. there, so I really can't answer that question. 3 We made it our business to see these patients 4 together. 5 Well, Doctor --Q. 6 We would not have the fellows working 7 Α. independently. 8 Well, Doctor, if the fellows were working 9 Ο. independently then that would be inappropriate, 10 correct? 11 Not necessarily. They may have seen the patient 12 Α. at one point independently, but we would 13 generally review and discuss with them. 14 If the parents had close observation of their Q. 15 child and they did not see you have hands on care 16 of their child, do you have an explanation for 17 that? 18 I object to MR. MOSCARINO: 19 that question. 20 I object as MS. CARULAS: 21 well. 22 I really can't say what the parents did and did 23 Α. I was at the hospital various hours of not see. 24the day and at various times and I might have 25

been there before or after the parents visiting 1 hours. 2 That's all Okay. MR. BECKER: 3 I have. 4 * * * 5 RECROSS-EXAMINATION OF MARC R. LEVINE, M.D. б BY MR. MOSCARINO: 7 Doctor, it's George Moscarino again. Just 8 Ο. briefly. 9 Correct me if I'm wrong, the typical routine 10 at Rainbow Babies and Childrens Hospital would be 11 that the attending cardiologist, whoever it was, 12 Dr. Zahka, you or Patel or whomever, would round 13 with the physicians in training, discuss these 14 cases and then ultimately come up with a plan or 15 a diagnosis, am I right? 16 Sometimes yes and sometimes no. We would 17 Α. typically round with them, but certainly not at 1.8 the same time every day. 19 Okay. But the physicians in training were not 20 Ο. left out there on their own to care for these 21 pediatric patients; you yourself and the other 22 cardiologists would see these patients and make 23 the ultimate decisions on what was to happen with 24 these patients? 25

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1	Α.	Correct.
2		MR. MOSCARINO: That's all I
3		have.
4		MS. CARULAS: All done?
5		MR. BECKER: Yes.
6		MS. CARULAS: Okay. Kathy, he
7		will not waive. If you would be kind enough, if
8		Mike orders this be written up I will order a
9		copy, send it to me. And then I'll make sure
10		that it gets to the Doctor for signature.
11		And obviously we will waive the specific,
12		whatever it is, seven days or whatever it is,
13		Mike, since he's out of town?
1.4		MR. BECKER: Sure.
15		MS. CARULAS: Thank you very
16		much.
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	Ĺ	Kathleen A. Hopkins & Associates

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1	<u>CERTIFICATE</u>
2	The State of Ohio,)) SS:
3	County of Lorain.)
4	I, Kathleen A. Hopkins Durrant, a Notary Public within and for the State of Ohio, duly
5	commissioned and qualified, do nereby certify
6	M.D., was by me first duly sworn to testily the
7	in the cause aforesaid; that the testimony then
8	the presence of said witness, subsequency,
· 9	and that the foregoing is a true and correct transcript of the testimony so given by him as
10	aforesaid.
11	I do further certify that this deposition was taken at the time and place as specified in
12	was taken at the time and picco do an area without the foregoing caption, and was completed without adjournment.
13	I do further certify that I am not a relative, counsel or attorney of either party, or
14	otherwise interested in the outcome of this
15	action.
16	IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal of office at Elyria, Ohio, this <u>file</u> day of <u>Cryculyce</u> , 1997.
17	Unio, chis <u>trac</u> and a
18	Silla A. V wrent
19	Kathleen A. Durrant, Notary Public
20	My commission expires 1-10-00 Recorded in Lorain County, Ohio
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Kathleen A. Hopkins & Associates 300 Loomis Building Elyria, Ohio 44035 216-323-5620

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