	COPY 1
l	IN THE COURT OF COMMON PLEAS
2	OF CUYAHOGA COUNTY, OHIO
3 -	X
4	MARIA O'DONNELL, et al,
5	Plaintiff,
6	- against - CCANNE
7	DAVID C. PARRIS, M.D.,
8	Defendant.
9	Case No. 414050
10	X
11	133 East 58th Street New York, New York
12 ·	June 4, 2003
13	10:40 a.m.
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16	Deposition of Expert Witness,
17	BENJAMIN E. ZOLA, M.D., before Rita
18	Persichetty, a Notary Public of the State of
19	New York.
20	
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22	ELLEN GRAUER COURT REPORTING CO.
23	133 East 58th Street, Suite 1201 New York, New York 10022
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1	STIPULATIONS
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3_ `	IT IS STIPULATED AND AGREED by and
4	between the attorneys for the respective
5	parties herein that the filing, sealing, and
6	certification of the within deposition be
7	waived.
8	IT IS FURTHER STIPULATED AND AGREED
9.	that all objections, except as to the form of
10	the question, shall be reserved to the time of
11	the trial.
12	IT IS FURTHER STIPULATED AND AGREED
13	that the within deposition may be sworn to and
14	signed before any officer authorized to
15	administer an oath, with the same force and
16	effect as if signed to before the court.
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ZOLA, M.D., BENJAMIN Ε. 1 called as a witness, having been sworn 2 by the Notary Public, was examined and 3 testified as follows: 4 EXAMINATION BY 5 б MS. HARRIS: Doctor, my name is Beverly Harris, Ο. 7 and I'm here on behalf of Dr. Balanson. I'm 8 going to ask you a number of questions today. 9 Since I am on the telephone, if you have any 10 problem, please let me know, okay? 11 Α. Yes. 12 I cannot see your responses, and so 13 Ο. if I interrupt you, that is not my intent. 14 Please stop me, okay? 15 Yes. 16 Α. Just before we started the 17 Ο. deposition, Howard indicated that you have a 18 new CV. I have one, would you believe, came 19 with your report sometime in 2001? 20 Yes, it's an old CV. Α. 21 Are there things to be added to it, 0. 22 changed to it? 23 A few things probably. 24 Α. Could you give me some idea what the Ω. 25

changes would be?

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Let me just look at my most recent 2 Α. 3 one. I'm pretty sure I know what the changes I don't think on this CV you have my most 4 are. current affiliation in terms of hospitals. 5 Q. Okay. What's the difference? 6 A. On the new CV, it says year 2000 to 7 the present, although I think it's actually 8 2001 to the present. So I think that's an 9 error on this printing of the CV. 10 The one I have is Lenox Hill 11 Ο. Hospital --12 I'm saying 2001 to the present, that 13 Α. takes you up to 2000. 14 Still at Lenox Hill? Ο. 15 No, let me finish, please. Sorry. 16 Α. 2001 to the present, it should -- the new CV 17 says North Shore University Hospital at Forest 18 Hills, Director Robert Davino, M.D. 19 Is that your only hospital Q. 20 affiliation right now? 21 Yes. Α. 22 Anything to do with Lenox Hill 23 Q. Hospital? 24 No. I mean, not officially, in 25 Α.

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1		other words, I still send patients there and
2	•	work with the doctors there, but I don't
3		actually admit there.
4		Q. What else is different, Doctor?
5		A. I guess everything else looks pretty
6		up to date. I know on this is I don't know
7		where they must have pulled this off the old
8		computer or something, but I know on my most
9		recent updated CV, it also lists me as having
10		served as a member of the Aetna northeast
11		regional or tristate area, northeast regional
12		quality assurance committees, that is I sat on
13		them as a physician panelist. That's, again,
14	· –	for Aetna, the insurance company. And also I
15		also took part in at least one some kind of
16		physician appeals board, so, again, northeast
17		regional quality assurance committee and at
18		least one appeals board.
19		Q. Anything else, Doctor?
20		A. I don't think so. I think
21		everything else is pretty up to date.
22		Q. In going through your CV here, can
23		you tell me why you changed from Lenox Hill
24		Hospital to North Shore Hospital?
25		A. Business reasons. Just working with
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other doctors, other opportunities, other 1 referrals. 2 Your practice is what, Doctor? Ο. 3 I'm a non-invasive cardiologist and Α. 4 internal medicine office based, although I do 5 still see patients in the hospital or in the б emergency room, but about 60 to 70 percent of 7 what I do is cardiology in the office, 8 30 percent internal medicine, 5 to 10 percent 9 medical malpractice consulting. A couple of 10 percentage points actually seeing patients in 11 the hospital or in the emergency room. 12 Q. When you say couple percentage 13 points, how frequently do you get into the 14 hospital? 15 Well, if it's for half an hour a day Α. 1.6 and I work at least a 12-hour day, then figure 17 out whatever that percentage is. 18 So are you saying that you're in the Q. 19 hospital every day? 20 No, I mean, I'm not. Sometimes I Α. 21 am, sometimes I'm not, it just depends on who 22 is admitted and who needs to be seen. 23 The patients that you see in the 24 Ο. hospital, are they patients of yours or are you 25

Zola

Zola asked to consult? 1 Both. 2 Α. What percentage would be your 31 Ο. patients versus those that you have to see as a 4 consultant? 5 Sorry, I didn't follow that, I Α. 6 missed. 7 What percentage of the patients that Ο. 8 you see in the hospital are your patients that 9 you've elected to hospitalize for whatever 10 reason and those patients that you've been 11 asked to consult on by other physicians? 12 The majority would be mine. Well, Α. 13 the majority would be mine because even if I 14 consult, I would be consulting as a 15 cardiologist and I would take over their 16 cardiology care or I already do their 17 cardiology care, even though they have an 1.8 internist or an internal medicine doctor. 19 So I'm not sure how to answer that. 20 It's not like it's an ownership situation. Ι 21 would be co-managing them with an internist or 22 just managing them alone in terms of internal 23 medicine and non-invasive cardiology. Of 24 course, if they're in the hospital having 25

invasive or interventional cardiology, then there's another cardiologist involved who specifically would be doing their cardio catheterization or their angioplasty or a surgeon involved doing their bypass surgery or something like that.

Q. In your practice as a cardiologist, are you a solo practitioner?

A. Yes.

Q. Medical practice, do patients come to you just for general medical care or are you seeing them incidental to a cardiac problem?

A. Both, but definitely a reasonable percentage of that 30 percent is patients just walking in off the street or, you know, making appointments to see me as an internal medicine doctor or as their primary care doctor. They may also have cardiology problems, but I also get young people having sore throats or women with urinary tract infections, so it could be anything.

Q. In reviewing your CV, I was a little confused and maybe you can help me. You received your medical degree at Harvard medical school?

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1		A. No, if you look at the
2		Q. Sorry, I read the wrong one. John
3		Hopkins?
4		A. Johns Hopkins University Medical
5		School.
6	•	Q. Then you have here Brown University
7		1980 and then Harvard again for hematology and
8		then UCL for infectious diseases. Were they
9	-	courses did they lead to specialization?
10		Explain that, if you would, please.
11		A. They're actually what they say on
12		the curriculum vitae, they were electives that
13		were done during those years while I was
14		actually in medical school at those different
.15		medical schools for, say, a month at a time to
16	-	take different courses at those different
17		medical schools.
18		In addition, 1976 to 1977 is when I
19		was an undergraduate at Harvard University. I
20		took electives at Harvard University medical
21		school in immunology, in neural physiology.
22		Q. So when you did infectious disease
23		at UCLA, was that about a month long program?
24		A. Yes, that's when I was a medical
25		student at Johns Hopkins but doing an exchange

elective in infectious diseases at the UCLA 1 medical school but getting credit for it at 2 Johns Hopkins. 3 Do you have any teaching 4 Ο. responsibilities today? 5 Not formal ones in terms of giving 6 Α. formal lectures, but almost any time I'm taking 7 care of a patient in the hospital, I'm 8 interacting with medical students, interns, 9 residents, fellows and other attending 10 physicians, all of whom I will be discussing 11 the patient with and teaching. 12 Cardiology or internal medicine or 13 Ο. any other subspecialties? 14 Cardiology and internal medicine. 15 Α. Occasionally emergency medicine when I'm in the 16 emergency room and I need to be discussing the 17 case with someone in the emergency room, with 18 whoever is in the emergency room, whether it be 19 an intern, a resident, a fellow or an emergency 20 21 room physician. Does North Shore Hospital have a Ο. 22 residency or fellowship in cardiology? 23 There are cardiology fellows that Α. 24rotate through there, but it's not the official 25

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1		residency or fellowship of that hospital.
2		Q. They rotate through what period of
3		time?
4		A. That, I don't I can't tell you.
5		Q. Is it rotation through full
6		cardiology, though?
7		A. You mean do yes, they rotate
8 -		through for a cardiology elective of some sort.
9.		I mean, again, I'm not in charge of the program
10		or I don't really know the program, so I can't
11		tell you what their elective actually is.
12		Q. Do they have a residency program for
13	-	internal medicine?
14		A. I believe so since I'm dealing with
15		interns and residents that are in internal
16		medicine, but again, I don't know who
17		administers it, if they're affiliated, what
18.		medical school they're affiliated with
19		specifically, who runs the program, who funds
20		it, you know, I don't know any of that stuff
21		because I'm not part of the administration
22		anymore.
23		Q. In terms of publications, Doctor, am
24	-	I correct that you have not published on
25		anything in the area of rheumatic heart disease

	Zola 14
1	and/or infectious endocarditis?
2	A. I don't believe so.
3	Q. Am I also correct that you have done
4	no research in these areas?
5	A. Correct.
6	Q. Do you review echocardiograms?
7	A. Every day.
8	Q. Have you looked at the
9	echocardiogram in this case?
10	A. I've looked at three echocardiograms
11	in this case dated January 28, '99, 2/25/99 and
12	2/26/99.
13	Q. Are you presently involved in any
14	kind of research, Doctor?
15	A. I'm not a principal investigator on
16	any specific research projects. I do, however,
17	work with some of the physicians at New York
18	Hospital and also at Lenox Hill Hospital
19	enrolling my patients in their studies having
20	to do with cholesterol control and different
21	devices such as defibrillators or stents or
22	other cardiology treatments for coronary artery
23	disease.
24	Q. You indicated previously that you
25	spent about 5 to 10 percent of your time in the

Zola medical legal arena. Is that reviewing cases 1 for lawsuits? 2 A. Yes, that would be reviewing cases, 3 testifying, writing reports, attorney 4 5 conferences. Q. How many cases do you typically 6 7 review a year? Probably somewhere around a case Α. . 8 every two weeks, so anywhere from 20 to 25 9 cases a year. 10 Q. What percentage for defendants, what 11 percentage for plaintiffs? 12 Probably about 90 percent of the Α. 13 cases that I review are for plaintiffs, about 14 10 percent for defense firms. 15 Are you listed with any services --· O. 16 expert witness services? 17 I believe I am at present, but I'll 18 Α. just give you a list of all the ones that I can 19 think of off the top of my head that have 20 listed me at various times. When I say listed, 21 I don't know exactly what they do except for 22 the fact they call me at times and say that 23 there is a case that an attorney is looking for 24 an expert witness on, would I be willing to 25

review it, so I presume they have me listed somewhere, but those firms include MedQuest, Macrotech, and some of these firms may not even exist anymore, I don't really know, I have not heard from some of them in a year or two.

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The head of at least one of the firms I know doesn't exist anymore, he is now my patient. In fact, many of them become my patients or constantly call me for advice, so sometimes the only way I know they still exist or don't, but MedQuest MacroTech, Learner's Second Opinion, TAB or Technical Assistance Bureau, some outfit in San Francisco like Medical Forensic Specialists or something, Cases Incorporated, that's a good smattering. I may have left one or two out.

Q. You charge for reviewing records?
 A. I charge a standard across-the-board
 fee of \$350 an hour for all review work,
 attorney conferences, reports.

MR. MISHKIND: Bev, let me interrupt for one second to let you know that Paul Dzenitis just walked in, he's here for Ron Wilts. We had started the deposition and the record should probably reflect that

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Paul's secretary called and indicated that into the depo. MR. DZENITIS: Great. Q. 350 for a report. What do you charge for depositions? Α. outside of the four-hour deposition. What about trials? Ο. Also I should say that beyond the A. four hours, it's \$500 an hour or any part thereof that it goes over the four hours because if it is going to do that and I can do that for you, then I have to call the office

and cancel patients.

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Trial is \$5,000 a day for a nine to five day at trial plus all expenses, plus travel time's \$250 an hour and I charge the

deposition plus travel expenses, meaning taxis, whatever, plus \$250 an hour for travel time

Depositions are a standard fee of \$2,000 for four-hour time block that I have to cancel all patients and make available for the

Doctor, you ended with you charged -

he was hung up at the airport and that we should go ahead and start the deposition. We are only about 15, 20 minutes actually

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1		travel time for time I actually travel that	I
2		cannot work, I don't charge for time I am	
3	-	sleeping or eating dinner or anything like	
4		that.	
5		Q. How many times have you been depo	seđ
6		say this year, the year 2003?	
7		A. I couldn't tell you, I'm sure it'	S
8	-	been at least six times.	•
. 9		Q. Have you testified at any trials	
10		this year?	
11		A. Yes, you know, it kind of blurs	
12		together, so I'm not sure what is this year	and
13		what's in the fall, but I'm sure I've testif	ied
14		at least once at trial, if not more than tha	t.
15		Q. Have you ever reviewed a case for	
16		Mr. Mishkind or anyone in his firm?	. *
17		A. I don't believe so. I don't I	
18		believe this is the only case I've reviewed	for
19		them.	
20		Q. Do you know how he got your name?	
21		A. I have no idea. They contacted m	e
22		somewhere around early 2001 or late 2000 and	I.
23		have no idea how they found me.	
24		Q. Have you reviewed any cases in Oh	io
25		for any attorneys?	

A. Yes.

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Q. Do you recall who?

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A. I know I've worked with the firm of Walsky & Blue or Walsky & Barclay (phonetic), I think they are now, I'm not sure what name they go by now. And I've testified at trial for them at least two times also, and I think there is an attorney named Jeff Bowsay or something like that in Columbus who used to be a defense attorney and became a plaintiff's attorney and contacted me after he became a plaintiff's attorney and asked me to review cases for him.

Q. Anyone else you can think of? A. They're very -- well, maybe others in Ohio, that's all I can think of right now. Q. When you were contacted in this case, did you receive any summaries of the records or anything of that sort?

A. I may have been just contacted by telephone, I honestly don't remember what the initial contact was, but what was sent to me initially, I believe, were partial medical records, and that's about all I can tell you.
I mean, I've had different things sent to me at different times throughout the last two years.

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1	Q. Doctor, you have a report here dated
2	January 17, 2001?
· 3 ·	A. Yes.
4	Q. Is that the only report you had
5	written?
6	A. That's the only written that I've
Ż	generated, yes.
8	Q. Then you list nine things that you
9	have looked at?
10	A. Then those are the things that I
11	would have looked at at that time when I did
12	the report.
13	Q. Since that time, what else have you
14	reviewed?
15	A. Well, since that time, I know I got
16	more complete records from Dr. Hollin, I
17	believe I had more complete records from
18	Dr. Zirafi, Dr. Balanson and Dr. Parris or at
19	least got another set of copies maybe with some
20	sheets that were missing, and I've gotten
21	depositions since then.
22	Q. Let me stop you at those records.
23	Doctor, did you receive the complete Mt. Sinai
24	medical records, as best you could tell?
25	A. I believe so. I received an updated

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1		set of records from Mt. Sinai sometime around
2 .		February of 2001. It's certainly a more
з		complete set of records. I can't tell you off
4		the top of my head now, I can't tell you if
5		it's absolutely everything, but it's certainly
6		more complete and certainly is contains, I
7		believe, everything that I need. It doesn't
8	· ·	change my opinions in the initial report, but
9		it gives me more records to bolster those
10		opinions.
11		MR. MISHKIND: Bev, so you're aware
12		also, and it's right here, I did send him,
13		just for information purposes, some of the
14		most recent records from Dr. Winkelman and
15		Dr. Perzi within the last, I don't know,
16		month or so, and he has them in the stack
17		of stuff that is in front of him.
18		Q. What depositions?
19		A. Also I just so you know, so
20		before I answer that question, I also have some
21		expert reports.
22		Q. We'll get to those, Doctor. Let's
23		talk about depositions first.
24		A. Depositions, I have the deposition
25		of Dr. Zirafi, the deposition of Dr. Balanson,
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Zola the deposition of Dr. Parris, the deposition 1 of -- I thought I had the deposition of 2 Dr. Hollin here somewhere. 3 MR. MISHKIND: You do. 4 I'm not sure where it is, but I know 5 Α. I've gone over the deposition of Dr. Hollin. I б 7 also have answers to interrogatories. From who? Q. 8 MR. MISHKIND: From Dr. Hollin, they .9 have the full set of his records that he 10 didn't have at the time. If you recall, 11 12 there was the questionnaire that was attached, so I sent him a copy of the 13 interrogatories with the questionnaire 14 that was filled out by Maria when she saw 15 Dr. Hollin. 16 Whose expert reports? Q. 17 We found Dr. Hollin's depo in my Α. 18 pile. Did I also say Dr. Kalucis? 19 No, you didn't, but I'll put it Ο. 20 down. 21 A · I have the deposition of --22 MR. MISHKIND: Your question was 23 which expert reports, Bev? 24 MS. HARRIS: Yes. 25

Zola I have expert reports from Α. 1 Dr. Kaberline and Dr. Berkowitz and also from 2 Dr. Mitek, Dr. Lerner, Dr. Irene, Dr. McKinsey 3 and Dr. Josephson, Dr. George, Dr. Kose, 4 Dr. Resnik and Dr. Armitage. 5 Anything else that we haven't talked 6 Ο. about? 7 MR. MISHKIND: Bev, he has two 8 notebooks which also include all of the 9 records from Dr. Zirafi. Sorry, you were 10 about to --11 Well, I can tell you what's in the Α. 12 two notebooks. They include records from 13 Dr. Jim Cuglewski, C U G L E W S K I, records 14 from Dr. Kalucis, K A L U C I S, records from 15 Dr. Zirafi, records from Dr. Parris, records 16 from Dr. Balanson, records from Dr. Hollin and 17 the urgent care or MedCenter. 18 Did you receive any summary of the Q. 19 records or any indexes or anything of that 20 sort? 21 Α. No. 22 Did you make any notes? Ο. 23 Yes. 24 Α. Do you have the notes with you? Q. 25

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1	A. Yes, I have one page of some notes
2	that's just kind of a time line and little bit
3	of a summary of some of the things from the
4	different office visits.
5	Q. When were those notes made?
6	A. In the last two or three days.
7 -	Q. Can you hand those to the court
8	reporter and have that marked as Exhibit 2.
9	We'll mark the new CV as 1 if we can.
10	A. Again, the CV is actually not the
11	very newest, it's almost the newest.
12	(Zola Exhibit 1, CV, marked for
13	identification.)
14	(Zola Exhibit 2, Dr. Zola's notes,
15	marked for identification.)
16	A. Also in terms of the notebook, there
17	are some selected Metro Health Medical Center
18	records in terms of admission and discharge
19	summaries going from March of '99 up until
20	February of 2000. That's in one of the
21	volumes. I think the other volume is just
22	Mt. Sinai Hospital medical records pertaining
23	to 2/24/99 to 3/11/99.
24	Q. Doctor, would you hand the court
25	reporter has handed you Exhibit 2, which is

25 Zola notes that you referred to, it's one page. 1 Α. Right. 2 That was made about two to three 3 Ο. days ago? 4 Within the last two to three days. Α. 5 Some of them I added early this morning. 6 Would you hand them to Nancy Moody 7 Q. so she can rereview it? 8 MR. MISHKIND: She actually already 9 has. 10 MS. MOODY: I have looked at it, 11 Bev. 12 Doctor, did you make any marks on 13 Ο. the records or depositions or, you know, 14 anything of that sort? 15 Just underlinings and highlights, I 16 Α. believe. Miss Moody has looked through it 17 so... 18 I'll leave that to her then. 19 Q. She would know what I did. I think Α. 20 it's just highlights pretty much, right. 21 Doctor, would you define for me what 22 Ο. infectious bacterial endocarditis is? 23 Bacterial endocarditis means a 24 Α. bacterial infection of the heart usually 25

26 Zola involving the valves at first and then . 1 sometimes spreading from the valves into the 2 cardiac tissue, but it basically means 3 bacterial infection of the heart itself. 4 What is rheumatic heart fever, if 5 Q. you can define it? 6 Well, you mean rheumatic fever or 7 Α. vou mean rheumatic heart disease? 8 Rheumatic heart disease is probably 9 Q. better. 10 MR. MISHKIND: I was wondering what 11 you were talking about. 12 Rheumatic heart disease implies that 13 Α. the patient has had an episode of rheumatic 14 fever -- an episode or episodes of rheumatic 15 fever that has left their heart damaged in some 16 way from that rheumatic fever. Oftentimes with 17 scarring, thickening, nodulate, leak or 18 blockage of the heart valves, but also with 19 some, the same thing potentially occurring in 20 the heart tissue that is the muscular tissue. 21 What are the signs and symptoms of 22 Ο. bacterial endocarditis? 23 The signs and symptoms of bacterial 24 Α. endocarditis can be a whole myriad of things, a 25

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1	lot of different things, but they'll frequently
2	involve the typical signs and symptoms of any
3	infection, fevers, chills, aches, weakness,
4	fatigue, weight loss, and then all sorts of
5	other things depending on how the bacterial
6	endocarditis progresses, how it spreads,
7	whether or not pieces of infected material
8	break off from the heart and/or its valves and
9	spread to the rest of the body.
10	If a piece breaks off and goes to
11	the brain and blocks an artery feeding blood
12	there, it will cause a stroke. If it goes to
13	the heart artery, it will cause a heart attack.
14	If it goes to the finger, it will frequently
15	cause an area of finger death or finger attack.
16	And also, any infected material that breaks off
17	from the valve and goes somewhere in the body
18	will not only damage that part of the body but
19	frequently spread the infection to that area of
20	the body. Those would be some of the typical
21	things that would occur with endocarditis.
22	Q. Would you define what it means to
23	have vegetation on the valves?
-24	A. Vegetation is what's used to
25	describe a growth of inflammatory tissue and

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Zola infection that is bacterial growth literally 1 growing like a vegetable or looking like a 2 nodule or a little piece of infected material 3 growing on the valve or on the heart somewhere. 4 How does one get vegetation on the 5 Ο. valves? 6 Α. One gets vegetations by having an 7 infection on the valve and then by having an 8 9 immune system that mounts an immune response to try to fight that infection. So it's a 10 combination of the infection and the body 11 attempting to ward off that infection. 12 In other areas of the body if 13 there's an infection, the body will surround it 14 with scar tissue or attempt to surround it with 15 scar tissue to wallet off and form an abscess. 16 You can't -- it's very difficult to form an 17 abscess on a valve, but in a sense that's what 18 a vegetation is, it's like an abscess like 19 20 growth that's growing right on the tip of the valve. 21 How does one get the infection on 22 Ο. the valve? 23 By bacteria floating through the 24 Α. bloodstream and sticking to and invading the 25

Zola That usually only happens when valve itself. 1 there's been some sort of damage to the valve 2 making it susceptible to being infected and 3 usually also only when there is a leak or 4 abnormal blood flow creating a high-speed jet 5 of blood flowing in one direction or another 6 next to the valve causing some fibrin-like 7 tissue, fibrin being a protein in the blood, 8 but causing protein to stick to that valve at 9 that point making it more susceptible to also -10 having bacteria stick to the valve at that 11 point. 12 How does one diagnose bacterial 13 Ο. endocarditis? 14 It is diagnosed made on a base of a Α. 15 variety of things, but mostly by blood culture 16 and the presence of symptoms of an infection 17 and often the detection of abnormalities on the 18 valves of the heart or in the heart itself that 19 is evidence of an infection of the heart or its 20 valves. 21 How do you determine evidence of an Ο. 22 infection of the heart or valve? 23 By performing some sort of imaging 24 А. study such as an echocardiogram. 25

Can we agree, Doctor, that the fact 1 Q. that one has had rheumatic fever which has 2 caused some damage to the heart valve, that 3 patient can have an infection which does not 4 involve the valve? 5 I'm not -- I don't understand your 6 Α. question. You asked -- you're asking something 7 that is obvious, any patient with damage to the 8 9 valve can have an infection, she can have a runny nose and cause a cold. Do you mean an 10 infection of the heart or the heart valve? You 11 have to be more specific in what you're asking. 12 The fact that a patient has had 13 Ο. damage to the valve through rheumatic heart 14 fever, rheumatic fever, does not preclude that 15 patient from having an infection going on in 16 the body unrelated to the valve, correct? 17 A. Correct. 18 Can we agree that if you have an 19 Q. infection unrelated to the valve, one can have 20 fever, weakness and fatigue? 21 Yes, but at the same time in a 22 Α. patient with rheumatic heart disease and damage 23 to their valve, any infection anywhere in that 24 patient's body is at risk to spread to the 25

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1		valve because most, if not all, infections in
2		the body have the ability to send the infected
3		material into the bloodstream, and once in the
4		bloodstream, bacterial infections in
5		particular, when the bacteria get into the
6	• • • • • • •	bloodstream, they can stick to that valve, so
7		any infection anywhere in the body is
8		automatically a high risk for a patient with
9		rheumatic heart disease, that is a high risk
10		for them developing an infection on their heart
11		valves secondary to that infection anywhere
12		else in the body.
13		Q. Can we agree that then the goal of
14		a with a patient such as that is to treat
15		the infection before it spreads to the valve?
16		A. Correct, yes.
17		Q. Am I correct that the way one would
18		treat the infection is to prevent the spread to
19		the valves through the use of antibiotics?
20		A. Yes, provided that we are talking
21		about a bacterial infection.
22	,	Q. I stand corrected. As long as we
23		are talking about a bacterial infection, the
24		goal is to treat that infection with
25		antibiotics hopefully to preclude it spreading

32 Zola to the valve? 1 That is correct. 2 Α. Am I correct -- and let's assume for 3 Q. the sake of this question, I'm talking about 4 bacterial infections, Doctor. 5 Sorry, it came through jumbled, but Α. 6 did you say we should assume from now on any 7 infection we discuss is going to be a bacterial 8 infection? 9 Yes. Can you do that? Ο. 10 Yes, I can. Α. 11 If you assume that we are talking 12 Ο. about a bacterial infection that has not spread 13 through the bloodstream to the valve and we 14 also assume that the goal was to prevent that 15 from occurring by using antibiotics, can we 16 agree that the antibiotics chosen are usually 17 chosen empirically? 18 A. Your question is a little bit broad 19 and nonspecific, but I believe the answer is 20 yes, that is, any infection anywhere in the 21 body that is bacterial will frequently be 22 treated empirically, that is treated based on 23 the most likely organisms that are there with 24 antibiotics to cover the most likely organisms 25

without necessarily getting a culture or 1 without necessarily identifying each and every 2 bacterium that is actually involved in the 3 infection. 4 In patients who have had valvular Ο. 5 damage from rheumatic heart disease, do those 6 patients require prophylactic antibiotics every 7 time they develop fever? 8 Not necessarily. However, the 9 Α. suspicion and the worry about them developing 10 bacterial infections has got to be extremely 11 high and part of the standard of care would be 12 that physicians treating those patients should 13 err on the side of treating them with 14 antibiotics rather than err on the side of not 15 treating them with antibiotics. 16 In a situation where a patient has a 17 Ο. fever but it has not spread to the valve, what 18 antibiotics would one choose? 19 A. Your question doesn't make any sense 20 because, again, it all depends on what the 21 infection is, where it is, what the suspected 22 bugs are, so the antibiotics would be 23 appropriate to the given circumstances. 24 The patient was complaining of 25 Q.

Zola

Zola fever, weakness and general malaise? . 1 If the patient was complaining of Α. 2 fever, weakness and general malaise and nothing 3 else and no other source of an infection could 4 be identified, then it would be extremely 5 important to rule out an infection in the 6 bloodstream and the heart valves as the source 7 and cause of those symptoms and findings, and 8 therefore, do blood cultures and be ready to 9 treat that patient based on their clinical 10 course and possibly results of blood cultures 11 and/or other blood testing and/or other 12 diagnostic testing also such as 13 echocardiograms. 14 Doctor, what is -- what is generally Q. 15 referred to by the lay public as the flu? 16 Is this supposed to be an expert 17 Α. opinion as to what the lay public refers to? 18 No, I'm using the term "flu." Do 19 Ο. you use that term? 20 I do usually when it means Α. 21 influenza, but I believe that the lay public 22 frequently refers to flu-like symptoms when 23 they're talking about almost any viral illness. 24 However, flu-like symptoms can also 25

		Zola 35
1		occur with any bacterial illness.
2		Q. In dealing with flu-like symptoms,
3		how would you make a determination that it was
4		due to a viral or bacterial infection?
5		A. It's based on a combination of the
6		patient's clinical presentation, blood testing
7		and potentially other types of testing such as
8		chest x-rays or echocardiograms.
9		Q. If one believes one has a viral
10		origin with flu-like symptoms, does standard of
11		care require that blood tests and chest x-rays
12	-	be done?
13		A. I can't answer your question the way
14	-	you've asked it because there is a presumption
15		in it that has nothing to do with medicine. It
16		is not a matter of so I'll try to answer the
17		best way I can, but it's not a matter of if one
18		believes it's viral.
19	-	The idea is in a patient like this,
20	-	in a patient like Maria O'Donnell who has
21		underlying rheumatic heart disease and
22		therefore is known to be at greatly increased
23		susceptibility to developing bacterial
24		infections on her heart valve which can be
25		potentially devastating or lethal, the

obligation of the treating physician is not to believe that a patient has a viral illness and treat her accordingly, it is rather to make sure that a differential diagnosis is produced of the different things that can be occurring with a patient and diagnostic testing be done to determine what is actually going on with the patient and to treat the patient whenever possible or necessary for more serious infections based upon that testing and its results. So in other words, the idea is not to necessarily come up with an answer that the doctor believes in and follow that course, but rather to have a differential diagnosis, have

doctor believes in and follow that course, but rather to have a differential diagnosis, have it working that there are many things that could be going on and that testing be done to try to differentiate between the many things, but if that differentiation cannot be made, rather than having a belief or making an educated guess in one way or the other, the patient should be treated in a way that protects the patient from the more serious problem such as endocarditis, and again, that gets back to what I said before about erring on

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1	the side of treating with antibiotics rather
2	than not treating with antibiotics.
3	Q. Doctor, am I hearing you correctly
4	that a patient who has had rheumatic heart
5	disease who has then had valve damage, that
6	every time that patient develops a fever
7	malaise, a workup has to be done including
8	blood cultures?
9	A. No, not necessarily every time;
ĴΟ	however, especially in any patient with
11	recurrent fevers, with prolonged fever, with
12	exceptionally high fever, a blood culture is
13	just literally a couple ounces or even an ounce
14	of blood that is taken out and put into a
15	culture bottle.
16	So given the fact that developing
17	endocarditis is potentially lethal or
18	devastating and given the fact that a patient
19	with rheumatic heart disease has the potential
20	for having the devastating and life-threatening
21	infection, whenever a patient with rheumatic
22	heart disease has a fever or a fever pattern
23	suggestive of the possibility of endocarditis,
24	a blood culture should be done, or not just a
25	blood culture but blood cultures and blood

testing should be done.

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Now, if a patient has one fever and 2 feels perfectly fine and goes to the doctor two 3 weeks later and reports that two weeks ago that 4 they had a fever for one day and has absolutely 5 no symptoms anymore, then blood cultures are 6 not necessary at that point in time. So this 7 is not an all-inclusive sort of thing. 8 You have to look at the situation at 9 any given moment and/or over time to determine 10 when to do blood cultures in a patient with 11 rheumatic heart disease that has had a fever. 12 There is a very big difference between a 13 patient that has a fever that is ongoing or 14 intermittent over twelve days and a patient. 15 that has a fever that's only 100.5 degrees for 16 one day and feels perfectly fine otherwise and 17 has had nothing happen for a week. So it just 18 depends on the situation. 19 In a patient with an extremely high 20

Zola

fever, such as 103.8 the way this patient had, that's extremely worrisome, and in a patient -not just in a patient like Maria O'Donnell but literally specifically in Maria O'Donnell, when she presented with a fever of 103.8, the risks

of her having underlying endocarditis were, without question, high enough that blood testing needed to be done at that point in time to be -- to help to diagnose whether or not she had underlying endocarditis.

Q. In your opinion, Doctor, when did she develop endocarditis?

In my opinion, I believe she A developed the endocarditis sometime after 12/15/98, that is I believe she either developed the endocarditis from bacterial seeding or showering through her bloodstream from the scope that was done by Dr. Kalucis, or sometime after that, some local infection that she had either in her throat, her mouth or her nose or sinuses seeded bacteria through her bloodstream onto her heart valve and she started her infectious endocarditis illness and it became subacute, that is it became an illness that the bacteria were growing on the valve, but the course of that illness was such that it was getting better, getting worse, getting better, getting worse and at times was partially treated with antibiotics.

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Q. I'm going to get you out of order,

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Zola Doctor, so bear with me, please. She received 1 doxycycline and she also received Biaxin, and 2 as I understand it, you have reviewed the 3 Mt. Sinai records; is that correct? 4 That's correct. She received 5 Α. doxycycline for a ten-day period from 6 February 8th onwards. 7 Q. And then she was also receiving 8 Biaxin, correct? 9 Then from, I believe, the 18th very 10 Α. late at night, so maybe starting on the 19th is 11 when she started taking Biaxin. I don't 12 believe she took the Biaxin until after she 13 actually called Dr. Parris at approximately 14 one o'clock in the morning on the 19th. 15 Would those -- would the bacteria be Ο. 16 sensitive to those drugs? 17 I'd have to go back and look Α. 18 specifically, but it doesn't really matter if 19 it were to be sensitive or not sensitive 20 because in endocarditis, because the bacteria 21 is in a pocket or a ball or a nodule, 22 antibiotics by mouth will most of the time not 23 be sufficient enough to treat and cure the 24 endocarditis. The endocarditis has to be 25

treated with very high levels of intravenous antibiotics in order to ensure adequate penetration of the antibiotic into the infected area in order to sterilize it and kill the bacteria. So what frequently will happen is antibiotics that are given by mouth when the patient has underlying subacute bacterial endocarditis will frequently suppress it, change its course, but not cure it. The question again is, were the two Ο. drugs given sensitive to those drugs so that it would change the course? To answer that question, you can Α. turn to the hospital records from Mt. Sinai and look at the microbiology blood culture reports from the initial blood cultures to see that the bacteria strain -- the bacterial strain that grew on the valve was Strep. mitis, a viridans group that was resistant to tetracycline, and

doxycycline is essentially a form of tetracycline, so the doxycycline did not likely kill the strep bugs that were on the valve, although they might have suppressed it a little bit.

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	Zola 42
1	In order words, these sensitivities
2	are basically what kind of concentration you
3	need to actually inhibit growth, so it might
4	have inhibited it a little bit, but it
5	certainly wouldn't likely have treated it
6	effectively.
7	I think that the that Strep.
8	mitis is likely to have been at least somewhat
9	sensitive to the Biaxin, although it's not
10	specifically listed on this sensitivity
11	profile, but also that Biaxin is not known to
12	be effective or, I should say, is known
13	specifically to not be effective treatment for
14	this kind of subacute bacterial endocarditis,
15	so again, although the Biaxin likely would have
16	helped suppress things, it certainly would not
17	have effectively and/or adequately treated the
18	infection, and so the infection would have
19	continued while the patient was taking Biaxin.
20	Q. How long does it take to sterilize
21	the patient?
22	A. That's different for every patient.
23	The standard of care is to treat a patient with
24	endocarditis for a minimum of four weeks of
25	intravenous antibiotics. That is, treating for

two weeks will only sterilize perhaps 70 to 80 percent of patients. I mean, I don't know the specific numbers, I don't have them on the top of my head, but I'm giving you an example.

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The idea is that the shorter periods of time treating with antibiotics are not likely to sterilize everybody, so it's only four weeks of antibiotics that is likely to sterilize more than, say, 95 to 98 percent of patients with endocarditis, but it's not just four weeks of antibiotics, it's at least four weeks of antibiotics with other indicators that the patient's valve has possibly been sterilized, such as follow repeat echocardiograms, sedimentation, CBC, repeat blood cultures, in other words, doing other testing also to be certain that the patient doesn't still have bacteria that are alive and infecting the heart or heart valves.

Q. Am I correct, Doctor, I'll try to sum up what I think you said, that it will take approximately two weeks in a minimum to reach almost all of the bacteria being eradicated?

A. No, that's not what I said at all.Q. Okay. What did I miss, the bacteria

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1 .	will continue to be there up to two weeks?
2	A. No, my answer stands the way I
3.	answered it. You've just paraphrased it
4	completely wrong. I'll try to say it again
5	without having to repeat my entire answer, but
6	the bottom line is there will be some patients
7	that have less infected material and they may
8	respond to two weeks of antibiotics. However,
9	there will also be patients such as Maria
10	O'Donnell who will have much more infected
11	material, and they are more likely to require a
12	minimum of four weeks of antibiotics to be
13	sterilized. It will be different for every
14	patient.
15	Q. In Maria O'Donnell's case, on the
16	24th of February, am I paraphrasing this
17	correctly, that she would more likely need four
18	weeks of treatment to completely sterilize all
19	the bacteria?
20	A. More likely than what, more likely
21	to need four weeks than what?
22	Q. Than not.
23	A. Yes, on the 24th, Maria O'Donnell
24	more likely than not needed four weeks of
25	intravenous antibiotic therapy to sterilize the

valve.

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Q. Am I also correct that even though the valve has been sterilized, the vegetation remains?

A. No, what you've said is not true. Maria O'Donnell had a vegetation that was mobile, that means it had a stalk, it was flapping around in the breeze. When she had an echocardiogram performed on February 25 in the hospital, that vegetation subsequently broke off, floated downstream and went to her brain where it caused a stroke, so that vegetation was no longer on her valve because, of course, it caused her stroke.

However, she had other vegetations on the valve, that is other infected areas on the valve that were growing as vegetations, and those areas were sterilized with the four weeks of antibiotics that she received by vein in the hospital and/or the center she was sent to afterwards, but there's still residual scar tissue that was left behind afterwards.

Q. Doctor, I don't think my question was clear, and I apologize. Assuming that the vegetation hadn't broken off, assume the

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patient with vegetation on the valve, if you 1 give them a course of antibiotics, the 2 vegetation remains, although it becomes 3 sterile; is that a fair statement? 4 Although it becomes? Α. 5 Sterile. Ο. б No, that's not completely true Α. 7 because the vegetation is made up of a mass of 8 infected material, inflammatory material and 9 scar tissue, and so as you kill the bacteria, 10 you remove the bacteria from the vegetation, as 11 you kill the bacteria and sterilize it, 12 inflammation in the area also goes down. So 13 vegetations will frequently shrink and/or 14 possibly resolve depending on how big they are, 15 but yes, there always will be some residual 16 scar tissue left afterwards. It's just a 17 question of how much is actually left 18 afterwards depending on how it heals. 19 Is there any rule of thumb as to how Q. 20 long it takes vegetation to shrink and/or 21 resolve? 22 It will shrink and tend to resolve Α. 23 over that four-week period, but it may -- it, 24 of course, will continue to shrink after it's 25

Zola

sterile, possibly for many months afterwards, just the way any scar tissue continues to shrink.

Just like if you have a scar or a cut on your skin, even though it looks healed over after a couple of days, it may take many weeks or months before the scar is really truly very small and overwhelmingly healed, and any scar that forms does tend to shrink a little bit over many years even though that amount of shrinkage may be very, very small after the first couple weeks and/or couple months.

Q. Am I correct, though, that even with the antibiotics and the bacteria -- the vegetation being sterilized --

A. Sorry, before you go any further, some of your words -- you may as well start again.

Q. Sure. It wasn't going to be a good question, so I'll back up, Doctor.

MR. MISHKIND: I was going to object anyway, so you might as well start over.

Q. Am I correct that even if the vegetation has been sterilized through the use of antibiotics, that the sterile vegetation can

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break off and result in if it goes to the brain, a stroke or to the heart a heart attack? MR. MISHKIND: Objection, but go ahead.

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Yes, I believe the answer is yes to Α. the way you've asked the guestion, and if we make it a little bit more specific and anticipate your question for this case, I believe for this case specifically that by the 24th, this patient had a vegetation that was mobile and needed to be treated with antibiotics almost immediately upon being seen in the emergency room. And when I say almost immediately, I mean as soon as three sets of blood cultures were drawn, which should have occurred within an hour or maybe two hours of her actually coming through the emergency room, so antibiotics should have been started by approximately two hours of this patient being admitted to the hospital.

Had those antibiotics been given at that time and they would have been given empirically, that is without knowing what bug was involved, but she would still have been started on exactly what she was put on later

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essentially empirically, which would have been 1 vancomycin and genomycin, and if those 2 antibiotics had been started within two hours 3 of her being admitted to the emergency room, 4 then within a reasonable degree of medical 5 certainty or more likely than not that would 6 have diminished the likelihood of her having 7 had that vegetation break off and having had 8 9 the stroke that she had. Now, at the same time, I cannot say 10 that more likely than not had she been treated, 11 she would not have had the stroke. I can only 12 say more likely than not the chance of her 13 having that stroke would have been diminished. 14 Was that clear enough? 15 So in other words, vegetation could 16 Ο. have still broken off more likely than not? 17 MR. MISHKIND: Objection to the form 18 of the question, but go ahead. 19 20 Α. I can't answer it the way you've asked it. 21 Am I correct that if she had been 22 Q. started --23 Sorry, I'm sorry, I'm still thinking 24 Α. I can actually answer it the way you've asked 25

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1	it, the answer is no. I'll say it again, more
2	likely than not, her chance of having a stroke
3	would have been diminished. I cannot say more
4	likely than not it would not have happened.
5	That means I also cannot say more likely than
6	not that it would have happened. It doesn't
7 ·	mean that, but I mean it. So I just can't give
8	you a specific percentage of the likelihood of
9	her having had a stroke if she had been treated
10	within a couple of hours with antibiotics after
11	being admitted to the hospital.
12	I can only tell you that the
13	likelihood of her having had a stroke would
14	have been significantly decreased, and that
15	statement is within a reasonable degree of
16	medical certainty or more likely than not. For
17 -	instance, to make it clearer since there seems
18	to be confusion here, it's possible that she
19	had a 50/50 chance of having had a stroke at
20	that point in time, and that's why I can't
21	answer more likely than not one way or the
22	other she would or wouldn't have had a stroke
23	if she had been treated with antibiotics.
24	However, as I said already a couple times, if
25	she had been treated with antibiotics, whatever

Zola

Zola 1 the percentage chance she had of having a stroke would have been diminished. 2 You have a patient who you suspect 3 Ο. may have a bacterial endocarditis. Do you call 4 in consultants such as infectious disease 5 specialists? б Yes, I frequently will. In fact, I Α. 7 take it back, I almost always will. The 8 infectious disease consultants will be 9 especially helpful at calling the microbiology 10 lab, finding out what the bugs are, what the 11 sensitivities are and helping to adjust the 12 dose of antibiotics and will also play a 13 crucial role in helping to choose the proper 14 antibiotics. 15 This doesn't mean that I don't know 16 which antibiotics to treat the patient with. 17 It just means I try to get the very best 18 medical care for my patients, so I will usually 19 involve an infectious disease specialist to 20 help me achieve that and to help me with some 21 of the work as I've already described. 22 Would it be appropriate in keeping 23 Ο. with the standard of care if Dr. Balanson 24 contacted an infectious disease specialist to 25

Zola assist you in the management of this patient? 1 Absolutely. 2 Α. In keeping with the standard of care 3 Ο. for Dr. Balanson, should have contacted a 4 cardiologist to help her in the management of 5 this patient? 6 Absolutely; however, given the fact Α. 7 that this patient -- that the working diagnosis 8 9 of this patient when the patient was admitted was infectious endocarditis, both the 1.0cardiologist and the infectious disease 11 specialist should have been contacted right 12 away and should have been involved in the 13 decision-making process right away. 14 Do you know when they were called? 15 Q. I believe they were -- well, I can 16 Α. only tell you that -- I'm sorry, they should 17 have been called and seeing the patient or had 18 input into the patient's care right away. Ι 19 can only tell you that both of them were 20 involved in the patient's care the next day 21 after the patient was admitted. 22 Do you see Dr. Balanson's office 23 Ο. 24record? Do I see or did I see? Yes, I did А 25

see.

Are you aware that she called them Q. from her office while the patient was en route to the hospital for advice?

Zola

Do you want to point me to something Α. specific in the medical records? In her note on 2/24/99 it says, I did discuss this with Dr. Cuglewski and Dr. Mosto, so I did believe she did discuss the case with those two doctors on 2/24/99.

Q. Are you aware that that was after she made the impression of endocarditis and had the patient sent to the hospital that she had those phone calls?

I believe so, that's what it looks Α. like here, yes.

Were you aware that Dr. Cuglewski, Ο. I'm not sure if I'm saying this correctly, recommended that antibiotics not be started after three sets of blood cultures from 24 hours to 48 hours apart?

Actually we have a variety of Α. different recommendations being made by Dr. Cuglewski and his team, so you can look at all the different notes that were done to try

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Zola to put all of them together but -- and if you 1 2 want, I'll go through that with you right now in terms of answering your questions. 3 The progress notes, Dr. Cuglewski's 4 Q. 5 progress notes? His progress note on 2/25/99. 6 Α. 7 That's the one I'm referring to. Q. Reads, will repeat additional blood 8 Ά. cultures in next 24 hours and decide on 9 antibiotic therapy. 10 In addition, there is a consult 11 12 sheet that was filled out that was performed by Dr. Cuglewski and whoever his associate, in-13 14 which the recommendation was made initially after blood cultures, should treat with 15 antibiotics until blood culture results back 16 and adjust medicines, and then that note is 17 18 followed up by Dr. Cuglewski saying, see 19 progress notes, so there is, if not an actual contradict in what is written, there's a slight 20 21 change in terms of, and I should say, a change 22 and a vagueness in terms of what's actually written in terms of when antibiotics should be 23 24 started. 25

I believe that it's very clear and I

agree with the fact that antibiotics should be 1 started after three sets of blood cultures were 2 done, and as I've already said, those three 3 sets of blood cultures could have been done 4 within the first couple of hours from when the 5 patient first got to the emergency room. I 6 think it's a deviation from the standard of 7 care in Maria O'Donnell to have waited for 8 anything beyond those first two hours to 9 actually start her on antibiotics. 10 Well, Doctor, did Dr. Balanson who Ο. 11 contacted the infectious disease specialist 12 immediately have a right to rely on his 13 recommendations as to what to do regarding 14 antibiotics and blood cultures? 15 Up to a certain point. At the same Α. 16 time, Dr. Balanson is a treating physician and 17 she should be aware of how to treat infectious 18 endocarditis and how to treat infections in 19 patients that have history of rheumatic heart 20 disease and recurrent fever the way this 21 patient had. 22 In addition, on the 25th -- on the 23 25th of February in 1999, she was called by 24 Dr. Mosto and informed of the fact that the 25

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patient had a vegetation on the mitral valve. 1 2 So especially by that time she knew that this patient undoubtedly had endocarditis and had a 3 very high-risk state for having a stroke being 4 that the patient had a vegetation that was 5 actually mobile or flopping around in the 6 bloodstream on that mitral valve. 7 Doctor, I also note that she called 8 Ο. Dr. Cuglewski immediately after hearing from 9 Dr. Mosto? 10 Α. I believe that's in her note also, 11 12 yes. Are you saying that Dr. Balanson 13 Q. should have overruled the specialist in 14 infectious disease and gone ahead and treated 15 this patient even though he did not want it to 16 17 be at that time? It's not a matter of overruling, 18 Α. it's a matter of the two of them treating the 19 patient in an appropriate manner. She is an 20 internal medicine physician that is in charge 21 of this patient's care; and therefore, she 22 along with Dr. Cuglewski need to make the 23 24 decision as to how to treat the patient. And the standard of care in a patient that is 25

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infected the way that this patient was and 1 in -- especially in a patient with a known 2 mobile vegetation is that the sooner and 3 quicker a patient like this receives 4 antibiotics, the more likely they are to do 5 6 well. O. Well, Doctor, let me go back to my 7 question then. If Dr. Cuglewski felt that this 8 patient should not be treated immediately but 9 wait until another set of blood cultures were 10 gotten, did Dr. Balanson have an obligation to 11 adhere to that advice? 12 A. If you want to put it that way, then 13 Dr. Balanson had an obligation to draw another 14 blood culture, that takes all of five minutes, 15 and then to treat the patient with antibiotics. 16 O. Did Dr. Balanson have an obligation 17 to overrule any clinical advice given by 18 Dr. Cuqlewski and go away and treat this 19 20 patient? A. Again, it's not a matter of 21 overruling but, yes, if Dr. Cuglewski gave 22 advice that flies in the face of standard 23 medical care, then it is her obligation to 24 practice medicine within the standard of care 25

Zola

58 Zola and treat this patient with antibiotics. 1 Well, are you saying then that 2 Q. Dr. Cuglewski deviated from the standard of 3 care in this case as well? 4 MR. MISHKIND: Objection. 5 Go ahead. б In terms of his recommendation to Α. 7 wait on giving antibiotics to this patient, 8 9 yes, I believe he did. Do you disagree with the 10 Ο. recommendation that the blood cultures should 11 be done three hours apart? 12 Yes, the blood cultures are merely a 13 Ά. matter of drawing a certain amount of blood to 14 increase the likelihood of detecting bacteria 15 in the bloodstream and growing them out. So 16 there was no need to wait further and draw 17 other cultures before starting the patient on 18 antibiotics, rather the need was to draw the 19 blood cultures over a relatively short period 20 of time, get all the blood cultures in and 21 start treating the patient with antibiotics. 22 So the advice on 2/25 at 3:00 p.m. 23 Ο. by Dr. Cuglewski to receive blood cultures in 24 the next 24 hours is improper medical care? 25

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	Zola
1	MR. MISHKIND: Objection.
2	Go ahead.
3	A. Yes, in the sense that it deviates
4	from what the standard of care would be at that
5	point in time. Now, again, I'm not sure you
6	said 3:00 p.m., so I'm not positive if at
7	3:00 p.m. he knew about the vegetation that
8	Dr. Mosto had seen on the patient valve.
9	Knowing about the vegetation makes
10	it that much more imperative that this patient
11	be treated with antibiotics right away;
12	however, it doesn't change what I said before,
13	that the patient should have been treated with
14	antibiotics empirically after a couple of hours
15	after being admitted to the hospital.
16	Q. Did Dr. Mosto deviate from the
17	standard of care when did he not come in
18	immediately and do the echocardiogram?
19	MR. MISHKIND: Objection.
20	Go ahead.
21	A. No, I don't believe so because the
22	echocardiogram was not ordered that way.
23	Q. Sorry, I don't understand that
24	answer. Can you explain it?
25	A. Meaning that unless Dr. Balanson

Zola directed him to both see the patient and do an 1 echocardiogram as an image, then he did not 2 deviate from standard of care. 3 If Dr. Mosto knew on the afternoon Ο. 4 of the 25th when the patient was admitted to 5 the hospital that Dr. Balanson expected 6 endocarditis, did he have an obligation in 7 keeping with the standard of care to come in 8 immediately to do an echocardiogram to assist 9 in the diagnosis? 10 MR. MISHKIND: Objection. 11 Go ahead. 12 Your guestion doesn't make sense Α. 13 because he did do an echocardiogram on the 14 25th. 15 Sorry, I had the wrong date. On the 16 Ο. 24th at 5 p.m. when Dr. Balanson talked to 17 Dr. Mosto and told him of her suspected 18 diagnosis, did he have an obligation to come in 19 immediately and perform the echocardiogram? 20 MR. MISHKIND: Objection. 21 Go ahead. 22 No, he did not because doing the 23 Α. echocardiogram or not doing the echocardiogram 24 did not change what needed to be done for this 25

That is, the patient needed to have patient. 1 blood cultures done, at least three sets, and within two hours or so started on empiric antibiotic therapy for infectious endocarditis or other deep-seated infection, and having done 5 the echo or not doing the echo wouldn't have changed that; and therefore, it was perfectly 7 within the standard of care and appropriate to 8 have done the echocardiogram on the next day. 9 And again, as I said before, even 10 the findings on the echocardiogram did not 11 change what the standard of care dictated 12 should have been done for this patient, it only 13 bolstered it and made it that much more 14 important that the patient be started on 15 antibiotic therapy. 16 Theoretically, the patient should 17 have already been on that antibiotic therapy by 18 the time the echocardiogram was done, but once 19 the echocardiogram was done on the 25th and the 20 patient was still not on antibiotic therapy, it 21 made it that much more imperative that the 22 patient be started on empiric antibiotic 23 24 therapy.

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You then disagree also and feel that Q.

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Zola Dr. Cuglewksi deviated from the standard of 1 care when he wanted to have the results of the 2 blood culture back before starting treatment? 3 MR. MISHKIND: Objection. 4 Go ahead. 5 Yes, I've already answered that 6 Α. question and I've already said yes, he did 7 deviate from the standard of care by wanting to 8 wait for the blood culture results back before 9 treating this patient with antibiotics. 10 Ο. Did he also deviate from the 11 standard of care by not recommending starting 12 antibiotics before the results were back? 13 Yes. Α. 14 Do you know anything about Q. 15 Dr. Cuglewski's background? 16 I don't believe so. It's 17 Α. possible -- well, I mean, with exception of --18 no, actually, I don't recall reading anything 19 about his background. 20 Are you aware that he's a infectious 21 Q. disease specialist? 22 With the exception of him being an 23 Α. infectious disease specialist? 24 MR. MISHKIND: Are you aware that he 25

Zola was an infectious disease specialist, I 1 believe that was the question. 2 Yes, I am aware of that. 3 Α. Can we agree, however, that if Ο. 4 antibiotics are started in this case before the 5 blood cultures -- the blood is drawn for 6 culture, then you will not be sure what 7 8 organism you're dealing with? That is a possibility, but that's Α. 9 not what I said should have been done, 10 according to the standard, I said that three 11 sets of blood cultures should have been drawn 12 before, then the antibiotics should have been 13 given. 14 So you are agreeing then that you 15 Ο. take the blood samples and then start the 16 antibiotics, not start antibiotics empirically 17 and do the blood cultures? 18 A. Correct. However, in grave 19 difference to what was done with this patient, 20 this patient should have had the blood cultures 21 done right away, as the first two sets were 22 done, had the third set done very soon after 23 and then started antibiotics, again, within two. 24 hours or so of being admitted to the hospital. 25

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l	Q. In your opinion, did she have
2	bacterial endocarditis on January 25, 1999?
- 3	A. Yes, I believe that the patient did
4	have early infectious subacute bacterial
5	endocarditis.
6	Q. What are you basing that on?
7	A. Based upon the circumstances of this
8	case, her history, the procedure that she had
9	on 12/15/98, the bug or organism or bacterium
10	species that was eventually cultured out and
11	presumed to be growing on her valve and the
12	findings on echocardiogram from January 28,
13	199.
14	Q. What was the findings on the
15	echocardiogram that leads to that conclusion?
16	A. On echocardiogram on January 28,
17	'99, there is severe thickening and nodularity
18	of the mitral valve leaflets, specifically
19	severe thickening and nodular tissue in the
20	area that this patient did develop a mobile
21	vegetation, and so I believe that given her
22	circumstances and presentation, that and
23	knowing the natural history of subacute
24	bacterial endocarditis caused by Strep. mitis,
25	that this patient had underlying endocarditis

Zola

Zola in a relatively early stage in late January of 1 1999 and it subsequently progressed after that 2 point in time. 3 What clinically was available to Ο. 4 Dr. Zirafi to indicate that she might have 5 endocarditis? 6 Not very much, in that Dr. Zirafi Α. 7 knew that the patient had a history of 8 rheumatic heart disease and would have known or 9 should have known that the patient had had some 10 procedures recently, but based on Dr. Zirafi's 11 medical records, which are very thorough and 12 complete, the patient didn't have much else in 13 the way of complaints at that point in time to 14 suggest that she had underlying endocarditis. 15 So although I believe she did have 16 it at that time when seeing Dr. Zirafi, she did 17 not have much in the way of complaints or 18 enough in the way of complaints to suggest that 19 she had underlying endocarditis or that she 20 required a workup or diagnostic testing for the 21 presence or absence of underlying endocarditis. 22 Is it your opinion then that 23 Ο. Dr. Zirafi met the standard of care? 24 Yes. In terms of in her office 25 Α.

	Zola
l	visit at that point in time.
2	Q. How about after the echocardiogram
3	came back?
4	A. Although the echocardiogram was
5	abnormal and though although it was required
6	based upon that that Dr. Zirafi communicate
7	those abnormalities to the patient, I believe
8	she may have deviated from standard of care
9	initially in not discussing those findings with
10	the patient and/or making sure that the patient
11	had adequate follow-up except for the fact that
12	this patient did have follow-up after that
13	point in time, and eventually Dr. Zirafi did
14	send the results of that echocardiogram to the
15	location at which Maria O'Donnell was having
16	medical follow-up.
17	Q. She sent it to Dr. Mosto, correct?
18	A. No, she sent it to Dr. Rosenfeld,
19	but at that clinic where I believe Dr. Parris
20	was also.
21	Q. She also sent it to doctor
22	A. She may have sent it to Dr. Mosto
23	eventually, but I'm talking about she sent it
24	on the 19th of February to Dr. Rosenfeld, I
25	think the name is.

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	Zola
1	MR. MISHKIND: Correct.
2	Q. Doctor, let me just tie this and
3	then I'll move on because the other attorneys
4	will have to ask questions as well.
5	Did Dr. Zirafi's care in any manner
6	deviate from the standard of care?
7.	MR. DZENITIS: Objection.
8	MR. MISHKIND: Do you understand her
. 9	question?
10	THE WITNESS: Yes, I do.
11	Q. No, I don't believe it did. I
12	believe I would have done things a little
13	differently in terms of making sure that the
14	medicine doctors following her knew about her
15	findings on the echocardiogram earlier, but I
16	don't believe that Dr. Zirafi not doing that
17	was a deviation from standard of care.
18	In other words, again, I would do it
19	somewhat differently, but that doesn't mean she
20	deviated from the standard of care, because
21	eventually this patient did get medicine
22	follow-up and she did get the results of her
23	echocardiogram to the doctors that were
24	following her.
25	Q. Turning to Dr. Hollin, did

68 Zola Dr. Hollin deviate from the standard of care? 1 Yes, he did. Α. 2 In what manner? Q. 3 In a number of manners, but very Α. 4 specifically when he saw the patient on the 5 18th of February, he did not obtain an adequate б history or appreciate adequately the history 7 from this patient of her having had a history 8 of rheumatic heart disease. 9 Given the fact that this patient had 10a history of rheumatic heart disease and was 11 complaining of 12 days of fever on and off, he 12 should have had a very strong suspicion for the 13 patient having underlying endocarditis, and .14 therefore, should have made sure that the 15 patient had an EKG, blood work including a CBC 16 and differential, a Westergren sedimentation 17 rate and blood cultures performed at that point 18 in time. 19 In addition, for whatever reason, 20 whether it be a broken machine or lack of 21 technician or whatever, if the blood testing 22 could not be performed that evening at his 23 office or at the MedCenter or wherever, then he 24 had an obligation to send the patient for all 25

	Zola
1	the testing that I just described as soon as
2	possible, whether it be to an emergency room,
3	to a hospital or to some other facility, and
4	ensure that this patient did receive that kind
5	of testing as soon as possible. Had that
6	testing been done, this patient should have
7	been admitted to the hospital for an underlying
8	deep-seated infection and presumptive
9	infectious endocarditis and should have been
10	treated according to the standard of care for
11	that infection with antibiotics in a very
12	timely fashion.
13	And had all that been done, then
14	this patient would not would more likely
15	than not not have had her stroke and more
16	likely than not not have required valve
17	replacement when she did. Although it is
18	possible that she would have required valve
19	replacement eventually, whether it be five, ten
20	or twenty years down the line.
21	Q. What were the indications for the
22	valve replacement?
23	A. The indications would have been
24	worsening of her mitral regurgitation,
25	enlargement of the chambers of her heart and

70 Zola increasing in symptoms consistent with that 1 valve regurgitation such as shortness of 2 breath, weakness, fatigue. 3 Should she have this valve replaced Ο. 4 shortly after the initial stroke? 5 No. Α. 6 Ο. Why not? 7 Because there wasn't a specific need Α. 8 for it at the time. 9 Did she ultimately flick off Q. 10 vegetation resulting in the optic artery being 11 impaired? 12 I don't know if it's a vegetation, Ά. 13 but she had an embolus or she had something --14 most likely something from her heart valve that 15 broke off and eventually caused her to lose her 16 vision in one of her eyes. 17 Should that valve have been replaced Ο. 18 earlier? 19 MR. MISHKIND: Objection. 20 Go ahead. 21 Again, I already answered that Α. 22 question. 23 How could that embolus have been Ο. 24 prevented? 25

Zola

1	MR. MISHKIND: Objection.
2	A. Yes, if her valve had been replaced
3	earlier, it might have prevented that embolic
4	event in terms of her losing her vision and it
5	also might have been fraught with other
6	complications. You don't replace a valve when
7	it doesn't need to be replaced because of what
8	may happen in the future.
9	In this particular case, it is
1.0	possible that replacing that valve would have
11	prevented that particular event, but it wasn't
12	indicated at the time.
13	Q. It was replaced shortly thereafter,
14	was it not, Doctor?
15	A. Correct.
16	Q. I'm saying that that valve
17	replacement was timely.
18	A. I think that replacing her valve at
19	that time was a judgment call, but it was
20	within the standard of care to replace her
21	valve at that time, especially given the fact
22	that she had had a second embolic event from
23	problems with that valve.
24	However, if the valve had not been
25	replaced at that point in time, that also would

Zola have been within the standard of care. 1 Undoubtedly her valve would need to be replaced 2 at some point in time, but the longer that you 3 don't have to replace the valve, the longer you 4 put off her being exposed to the risks of dying 5 from the operation, the longer you put off her 6 having to be on Coumadin or blood thinners or 7 have the risks of bleeding to death or bleeding 8 complications from being on Coumadin. 9 So again, you don't replace a valve 10 unless it's specifically indicated, but there 11 will be times when it may or may not be 12 indicated and that's when it is within the 13 standard of care to do it either way. That's 14 when it becomes a judgment call, that is, a 15 judgment call still has to fall within the 16 standard of care whatever that judgment may be. 17 The date of the diagnosis of Ο. 18 endocarditis --19 Sorry, repeat the question, we 20 Α. missed the first two words. 21 Was the impression endocarditis, is 22 Ο. it not a judgment call as to the exact timing 23 of starting antibiotics? 24 MR. MISHKIND: Objection. 25
Go ahead.

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Zola

I can't answer the question the way 2 Α. you've asked it because you used the phrase 3 "exact timing." I've already answered that 4 question in the sense that I've said that it's 5 within the standard of care to treat patients 6 with infectious endocarditis or any deep-seated 7 infection, and especially an infection like 8 endocarditis, as an infection in the 9 bloodstream. It's the standard of care to 10 treat those patients with antibiotics as soon 11 as possible because their likelihood of doing 12 well is directly related to how quickly they 13 14 get antibiotics. To delay antibiotics in a patient 15 that has an underlying deep-seated infection 16 such as infectious endocarditis would be in 17 deviation from the standard of care unless 18 there were an overwhelming reason to delay that 19 20 treatment. What would those reasons be? Q. 21 None that are present in Maria 22 Α. O'Donnell in this particular case. 23 What kind of -- give me some Ο. 24 examples, however, whether or not in this case. 25

Zola MR. MISHKIND: Objection.] Go ahead. 2 A. An example might be if the patient 3 had already received intravenous antibiotics 4 multiple times in the past, had already had an 5 echocardiogram showing that there was no large 6 vegetations and if it were felt that the 7 patient was at low risk for having a delay in 8 treating her with antibiotics or treating the 9 patient with antibiotics, and so in that sort 10 of circumstance, a brief delay in treating with 11 antibiotics may be warranted within the 12 standard of care but certainly not in a patient 13 that has had a history of high spiking fevers, 14 of fevers going on for a long period of time, 15 with a history of rheumatic heart disease and 16 without question not in a patient that has a 17 mobile vegetation on the mitral valve. 18 Q. Do you have any criticisms of 19 Dr. Kalucis? 20 Yes, I did, as I outlined in my 21 Α. 22 report. 23 Q. What are those criticisms? MR. MISHKIND: Objection. 24 25 Go ahead.

Those criticisms have to do mainly 1 Α. with the February 22, 1999 visit in which there 2 is some ambiguity in terms of the history that. 3 he took from his patient in which he describes 4 the patient as having her symptoms all 5 returned, and it's unclear to me whether or not .6 the symptoms that all returned were the 7 hoarseness or whether the symptoms were also 8 cough, fever and indigestion. I think it's 9 possible to interpret the note that the patient 10 had an episode of cough, fever and indigestion 11 at some point prior to February 22, 1999 that 12mostly resolved but that gave her a return of 13 her symptoms of hoarseness. 14 It's also possible that he wrote the 15 note meaning that her symptoms of cough, fever 16 and indigestion had returned; and therefore, I 17 believe he deviated from standard of care, if 18 indeed this patient had recurrent fevers, by 19 not either treating the patient and/or doing 20 diagnostic testing for the source of her fever 21 or ensuring that the patient had adequate and 22 23 immediate follow-up to do the same, that is treatment and diagnostic testing for those 24 25 fevers.

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1	So in order for him to comply with
2	the standard of care, he would either have
3	started the patient on empiric antibiotics on
4	the 22nd or ensure that by the 23rd this
5	patient was being seen by a medical physician,
6	that is internal medicine, cardiology,
7	whatever, by a medical physician to either
8	diagnostically test and/or treat those fevers.
9	Q. Are you also suggesting that his
10	deviations from the standard of care if he did
11	what you said he should have done, that the
12	consequences, embolic event would have been
13	either attenuated or avoided?
14	A. No, I believe that on February 22,
15	1999 when he saw the patient, at that point in
.16	time, again, having started the patient on
17	antibiotics that day or the next day more
18	likely than not would have diminished the
19	likelihood of this patient having had a stroke.
20	However, again, on the 22nd, I cannot say more
21	likely than not that treating this patient with
22	antibiotics would have prevented the stroke.
23	Q. That's on the 22nd, I'm sorry,
24	that's the date you said?
25	A. Yes, that's the date that

Zola Dr. Kalucis saw the patient. 1 Why is it you can't say that, Ο. 2 Doctor? 3 Because I believe that this patient Α. 4 developed her mobile vegetation some time soon 5 after, approximately the 20th or the 21st of 6 February, and therefore, essentially after the 7 21st of February, treating with antibiotics 8 would have diminished the likelihood of that 9 mobile vegetation from growing and breaking off 10 and causing a stroke, but I believe that by 11 that time, it was too late to say within a 12 reasonable degree of medical certainty or more 13 likely than not that treating with antibiotics 14 would have prevented the stroke. 15 Whereas before the 21st of February, 16 I believe I can say that treating with 17 antibiotics, that is appropriate antibiotics 18 for endocarditis, would have prevented growth 19 of her vegetation and eventual breaking off of 20 the vegetation and eventual stroke. I think I 21 said that correctly. I'll probably figure that 22 out when we actually read the transcript of 23 this deposition. 24 Are you critical of Dr. Parris? 25 Ο.

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	Zola
	A. Yes.
2	Q. What manner?
3	A. How about before we get to that, we
4	take a two-minute break?
5	MR. MISHKIND: Let's take a
6	five-minute break.
7	(Short recess taken.)
8	Q. Doctor, I think where I left off,
9	you have criticisms of the care of Dr. Parris?
10	A. Yes.
11	Q. Why don't you tell us what those
12	are?
13	A. Okay. I'll try to summarize them as
14	best I can. But basically when Dr. Parris saw
15 .	the patient on 2/8/99, I believe that he had no
16	appreciation of her history of rheumatic fever
17	and rheumatic heart disease, that he
18	inappropriately and deviating from the standard
19	of care treated her history of hoarseness,
20	fatigue, calf cramps, fever, sinus troubles and
21	a temperature of 103.8 on 2/7 p.m. and also of
22	104.4 basically and also not having symptoms of
23	an upper respiratory illness, basically that he
24	treated those findings with doxycycline and in
25	deviation of the standard of care did not do

1		blood work including a CBC, sedimentation rate
2		and blood cultures and did not perform an EKG.
3	-	Essentially the same criticism or
4		criticisms or whatever apply to the 2/11/99
5		visit, and essentially the same criticisms
6		applied to any time from $2/17$ on, that is, on
7		2/17, he received a phone call from the patient
8		that fevers and chills were still present, he
9		didn't get back to the patient until a day and
10		a half later at 8:30 p.m. on 2/18 leaving her a
11		message because the patient had already gone to
12		the MedCenter, that he got a telephone call
13		from the patient at 1 o'clock in the morning on
14		2/19 and was told that she had continued fevers
15		to 103 and told her to take the Biaxin and
16		didn't have her come in for diagnostic testing
17		and/or treatment the next day, whether it be to
18		the office or to the emergency room at the
19	-	hospital, that on a second telephone that on
20		the second telephone call of $2/19$, he noted
21		that the patient's CBC came back with a white
22		count that was elevated at 11.4 and didn't
23		attribute enough significance to that abnormal
24		white count, again, to do what I said already,
25		that is to ensure the patient had diagnostic
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Zola

testing with blood work and EKG as discussed and eventually admit the patient to the hospital.

He also missed the significance of a rheumatic crit of 30, which is low and very clearly anemic and also consistent with her underlying infection. Basically that he didn't see her to do these things. And I should say either see her or ensure that she be seen by someone either in his office or in an emergency room or hospital or somewhere else to perform the testing and treatment that I've already discussed.

I think that pretty much outlines 14 the major deviations from standard of care by 15 Dr. Parris. Had he practiced medicine within 16 the standard of care and ensured that this 17 patient got the diagnostic testing of the blood 18 work and the EKG in a timely fashion from 19 February 8, 1999 on, then I believe she would 20 not have had the subsequent stroke she suffered 21 and would not have required her valve 22 replacement at the early time that she then did 23 have valve replacement. 24

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Q. Doctor, have you told us the

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1	criticisms of all the caretakers in this case?
2	A. I believe so, although some of it
3	may be in kind of a summary form. I haven't
4	given you a detailed line by line critique of
5	every visit and every note by every doctor,
6	that is, there may be other deviations in terms
7	of not listing aspects of a physical exam or
8	not properly documenting things in the medical
9	records or not obtaining old reports or medical
10	records when they should have been obtained,
11	all sorts of things like that, but either way,
12	I believe that the way that I've answered
13	effectively summarizes the vast majority of my
14	opinions and lays out the reasons for my
15	opinions in terms of deviations from standard
16	of care of the doctors involved in this case.
17	Q. Did you give me all of your
18	criticisms of Dr. Balanson?
19	A. I believe so. If on relooking at my
20	deposition or relooking at the records I
21	realize that something has been omitted, then I
22	will, of course, let Mr. Mishkind know as soon
23	as possible so that he may inform you.
24	Q. At the time that you wrote your
25	report on July January 17, sorry, 2001, not
	-

Zola

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1	seeing Dr. Balanson's deposition, correct?
2	A. Correct, I had also not seen the
З	full and complete records from Dr. Hollin nor
4	the full and complete records from Dr. Balanson
5	nor the full and complete records from
6	Mt. Sinai, but I'd clearly seen the majority of
7	things as was outlined in my report, I believe,
8	and certainly had enough of the records to form
9	my opinions. And I don't believe my opinions
10	have significantly changed since that point,
11	they've only been bolstered by other materials
12	that I've subsequently obtained.
13	With the understanding also that my
14	opinions about Dr. Hollin in my report involved
15	me discussing whether or not he actually had
16	the information or whether or not Maria
17	O'Donnell had communicated information about
18	her rheumatic heart disease to Dr. Hollin, but
19	at that time I did not have the intake
20	questionnaire that was provided to me
21	eventually in a more complete copy of his
22	medical records in which I did see that he did
23	have the information of her having had
24	rheumatic heart disease and/or heart murmur in
25	the past.

83 Zola Doctor, at the time of your report, 1 Q. Dr. Balanson's office notes are complete office 2 notes? 3 I know that I didn't have complete Α. 4 office notes because I subsequently received a 5 more complete copy of those office notes after 6 issuing my report. 7 And the initial set of records that 8 Q. you had at the time of your report did not 9 include communications about her with Dr. Mosto 10 and Dr. Cuglewski? 11 Α. Correct. 12Also you did not have the complete 13 Ο. Mt. Sinai records when we have the progress 14 notes on 2/25 of Dr. Cuglewski, correct? 15 No, I believe I had that progress Α. 16 17 note. You had the consult, not the 18 Ο. progress notes; is that correct, Doctor? 19 No, I believe I had both when I did Α. 20 my initial report. Let me just see. Yes, I 21 had the progress note also from 2/25/99. 22 Blood culture results, correct? 23 Ο. What about the blood culture Α. 24results? I had those when I did my report 25

84 Zola also. 1 MS. HARRIS: Okay. I don't have any 2 further questions, Doctor. I'm going to 3 scan my notes and let someone else go 4 ahead of me first. 5 MS. MOODY: I'll go, David, if you 6 7 want. MR. MOSS: That's fine. 8 EXAMINATION BY 9 MS. MOODY: 10 Doctor, I'm Nancy Moody and Q. 11 representing Dr. Parris and his medical group 12 in this case. I just have a few follow-up 13 questions here, I'll try not to be redundant. 14 How much vegetation does it take to 15 cause a stroke? 16 Very small. Α. 17 How long does it take for an amount 18 Q. of vegetation capable of causing a stroke to 19 form? 20 It may only take a day or a couple Α. 21 of days for the amount to form; however, the 22 amount has to be formed and changed in a way 23 that it's also likely to break off, so not only 24does a vegetation have to form as a growth on 25

the value but it has to extend out, it has to have a stalk, it has to in some way become mobile or change in a way that little pieces start breaking off in the bloodstream.

Q. In this case, can you tell me to a reasonable degree of medical probability when the formation of the vegetation began?

A. Well, the formation of the vegetation began when the patient developed endocarditis sometime in late December and/or in January, December of '98 or January of 1999. By the time the echocardiogram was done on 1/28/99, there was undoubtedly vegetation material that existed on the valve, but none of it was specifically mobile or flicking around or looking like it was likely to break off.

So sometime after the 28th of January 1999 is when the vegetation would have -- vegetation material on this -- on Maria O'Donnell's valve would have changed in form and basically taken the form that was more likely to break off and embolies and cause a stroke. Given the fact that we see what it looked like on 2/25/99, given her clinical course in terms of fevers, when she first

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spiked a large fever, which was at least on 2/7/99, I believe by 2/7/99 she already had a significant amount of infectious material on the valve to create a very high fever. However, knowing how long it takes to form vegetations and their likelihood of breaking off and causing strokes, I believe she formed the mobile vegetation somewhere around the 21st of February or possibly even a little bit beforehand. That is, it may have already been mobile before then, but it continued to grow from that point on and become much more likely to break off and cause a stroke from, say, the 22nd -- or 21st to 22nd onward. Did you just say that on February Ο. 2nd of '99, she had enough vegetation on the valve to cause the high fever? No, on February 7th. Α. Wait a second. Strike that. Ο. MR. MISHKIND: We knew what you meant. On February 7 of 1999, did you say Q. that she had enough vegetation on her valve at

that point to cause the high fever of 103?

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A. Yes.

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Q. Is it your opinion that the fevers that she claimed to have been spiking or actually had been noted were related to the vegetation?

A. That's simplifying things too much, it's not just the vegetation. She undoubtedly had infection on her valve, most likely in more than one isolated spot, and the vegetation grows out of one of the spots, but the vegetation is like a stalk of broccoli that's growing out of an area that is infected, but the area that is infected that the stalk of broccoli grows out of is also called a vegetation, it's just not the vegetation that also looks like a stalk of broccoli that's flying in the wind or flipping around in the bloodstream.

Q. I just wanted to be clear on whether or not you were saying that the temperature issue is related to vegetations and if there hadn't been vegetation, she wouldn't have had the spiking temperatures?

A. Yes and no in the sense that any
endocarditis is, by definition, vegetation,
okay, so vegetation just means growth on the

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valve, but that's what endocarditis is, growth on the valve, it's a growth on any part of the heart, but in her case, she had growth on her damaged valves, so she had bacteria growing on her valves that started way back in either December soon after her -- the scope down her nose and then to the back of her throat or some time soon after that from another infection that she had, but either way, as soon as the valve was infected, it has vegetation on it. The vegetation may just be a surface

infection, it may not be flipping around in the bloodstream, but it's still a vegetation.

Q. And this vegetation, do you believe the vegetation that was forming was not visible on the echocardiogram that Dr. Zirafi did?

A. Well, no, on the echocardiogram that Dr. Zirafi did shows clear abnormalities that are nodules and thickened areas of the valve that could have been vegetations. But there's no way to know what they are at that point in time. They were just looking at the echo with her history at that point in time, there would be no way of knowing what they were.

In retrospect, I believe that there

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Zola were areas of infection on her valve especially 1 given where her mobile vegetation eventually 2 arises from. But again, at that point in time, 3 to be fair to Dr. Zirafi, there would be no way 4 for her to know what those thickenings were 5 with the exception of saying that they're 6 thickenings and they could have been there for 7 20 years from her rheumatic fever. 8 Would your opinion be different if 9 Ο. Dr. Zirafi knew of the history of fever and 10 11 fatique? Absolutely. Α. 12 MR. DZENITIS: Objection. 13 In other words, that's very clearly Α. 14 not present in her very detailed and 15 comprehensive note. But in the --16 She's saying MR. MISHKIND: 17 hypothetically. 1.8 In the hypothetical that she knew Α. 19 that this patient was having fevers and 20 fatigue, and the fatigue is almost meaningless, 21 it's the fevers, but in the presence of this 22 patient having fevers and having that 23 echocardiogram, then the standard of care would 24have required her to have performed blood 25

Zola testing, blood cultures, et cetera. 1 Does every patient with rheumatic Q. 2 heart disease develop heart valve damage? 3 Not necessarily, but, yes, in that Ά. 4 you've already described it as rheumatic heart 5 disease, but sometimes rheumatic heart disease б may be just some damage of the tissue, not of 7 the valve specifically, so there's always the 8 exception, but within a reasonable degree of 9 certainty, anyone with rheumatic heart disease 10 has damage to their valves or to a valve 11 somewhere. Now, anyone with rheumatic fever 12 may or may not develop damage to their valves. 13 But it's your opinion that she Q. 14 developed damage to her valves as a result of 15 rheumatic fever based upon the echocardiogram 16 of January of 1999? 17 Yes. Α. 18 Even in retrospect? Q. 19 Α. Oh, absolutely. 20 What caused the fever in this case Ο. 21 to wax and wane? 22 That's the natural cause of subacute Α. 23 bacterial endocarditis with a organism like 24Strep. mitis in addition to the fact that she's 25

Zola being treated with antibiotics at various 1 times. 2 You're aware, are you not, that 3 Ο. there has been some testimony that Maria took Δ antibiotics on her own that were not ordered by 5 a physician at various times? 6 I believe so, yes, and therefore, 7 Α. those antibiotics may have also altered the 8 course of her underlying endocarditis, not 9 curing it, but making it wax and wane. 10 Do you think that she caused her Ο. 11 condition to be worse? 12 MR. MISHKIND: Objection. 13 Not specifically, no, she didn't Α. 14 cause her condition to be worse. If the 15 infection was there, the infection was there. 16 She may have partially treated it at times 17 because she did or didn't take -- let's say she 18 had taken other antibiotics at various times, 19 it would have been partial treatment and so it 20 would have made her -- her clinical course be 21 something of intermittent fevers, but it --22 that didn't specifically make her worse, if 23 anything, it made her a little bit better, not 24 curing her but, again, partially treating the 25

Zola underlying infection. 1 So in other words, you don't place 2 0. much significance on the fact that she was 3 taking antibiotics without a doctor's order? 4 MR. MISHKIND: Objection. 5 6 Go ahead. Your question doesn't make sense. 7 Α. There is a significance to her taking 8 antibiotics without a doctor's order is what 9 may be contributing to the waxing and waning 10 course of her fevers, of her infection, of her 11 12 symptoms. Making it more difficult to 13 Q. . diaqnose? 14 MR. MISHKIND: Objection. 15 It may or may not make it more 16 Α. difficult to diagnose. It is not hard to 17 diagnose someone with rheumatic heart disease 18 who has endocarditis when they present with a 19 fever of 103.8 and then 104.4, all you need to 20 do is draw blood cultures, that takes all of 21 five minutes. 2.2 Did you see any place in the records -23 Ο. 24 that you reviewed where a health care practitioner actually took a temperature that 25

	Zola 93 -
1	high on Maria O'Donnell?
2	MR. MISHKIND: What high?
3	Q. 103, 101.
4	A. I recall a temperature of 100 point
5	something by either Dr. Hollin or Dr. Parris.
6	Q. Is it your recollection that the
7	temperatures of 103 and 104 were reported by
8	Maria as opposed to being temperatures that
9	were actually taken by a health care
10	practitioner?
11	A. Correct. In other words, at
12	MedCenter by Dr. Hollin we have a temperature
13	of 100.0, Dr. Parris has a temperature that was
14	taken of 37.1.
15	Q. Which would be what?
16	A. Which I'd have to look at the
17	conversion scale, but somewhere in the near
18	normal range, and he just lists that the
19	patient ran a temperature of 103.8 at night.
20	In fact, her fever pattern was such that most
21	of her fevers did seem to occur at night.
22	Q. Are there other illnesses where that
23	is the case, that fevers tend to occur at
24	night?
25	A. I'm almost anything that causes

Zola fevers can have fevers that occur at night. 1 But there aren't any particular 2 Q. diseases that you can think of that? 3 There may be, but it's not a Α. 4 diagnostic point. In other words, it's not 5 going to make the diagnosis one way. Anything 6 that is a bacterial illness can have fevers 7 that tend to spike in the afternoon or evening, 8 9 whatever, once a day. What, if anything, did the 10 Ο. hoarseness play in this whole scenario, did it 11 have anything to do with the bacterial 12 endocarditis? 13 Α. Well, only in that her hoarseness 14 may have been a residual of an illness that she 15 had that helped seed her valve with the 16 bacteria. In other words, she might have had a 17 viral illness that caused her hoarseness, she 18 may have had laryngitis, a tracheal bronchitis 19 that was viral, but if it also had a bacterial 20 component to it and seeded her valve during 21 that time, then that's what helped cause her 22 infection, or her hoarseness is what got her to 23 the ear, nose and throat doctor, Dr. Kalucis, 24 that caused him to do the scope that he did 25

which may have seeded her valve with bacteria on 12/15/98, so that's how it played a role, but as a specific symptom, it's not diagnostic of anything except hoarseness. Q. You have already answered this in discussing antibiotics and IV antibiotics and then needing to generally carry on with those four weeks. During that four-week time period, during the first week, is it -- is the vegetation continuing to grow or will giving antibiotic therapy stop the vegetation from

growing as soon as the antibiotic therapy is given?

A. It would be different for a given individual patient, but as a general rule, once appropriate antibiotics are started, there should be no further growth of bacteria, and the inflammatory process should begin to subside because the bacteria are being killed and cleared.

Q. Is there any mechanical way to remove this flapping vegetation from the heart?

A. Yes.

Q. How would you do that?

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A. Surgery.

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1	Q. Was that indicated in this case?
2	MR. MISHKIND: At what point in
3	time?
4	A. Indicated doesn't make sense in that
5	it was indicated at lots of different times.
6	Yes, it could have been performed any time
7	after the 25th of February once that vegetation
8	was seen. And once that mobile vegetation was
9	seen on the 25th, the consideration for surgery
10	was there, that is it could have been
11	considered; however, it's infrequent that
12	patients will be operated on for a single
13	mobile vegetation alone without having already
14	been started on antibiotics.
15	In other words, it would be within
16	the standard of care to have operated on her
17	and removed that vegetation because of the
18	risks of stroke, but it would have also been
19	within the standard of care to have done what I
20	already described, which is to start the
21	patient on antibiotics empirically within a
22	couple of hours after admission and after
23	having drawn her blood cultures and then
24	followed her clinically with repeat echos to

see what the vegetation was doing, and if the

vegetation was either growing or becoming more 1 mobile, again, a decision could have been made 2 at any point to either do surgery or not do 3 surgery depending upon the findings of 4 echocardiogram and/or her clinical course, that 5 is, other things, like if she continued to б spike fevers, if it looked like they couldn't 7 clear the infection with antibiotics alone, 8 that would also be an indication for doing an 9 operation. 10 Would the appearance of the flap, as Q. 11 we've been calling it --12 The vegetation that was flapping in 13 Α. the bloodstream. 14 Would the size of that or the 15 Ο. appearance of the movement of the flap increase 16 17 if that were -- if the movement was increasing or there was a fair amount of movement, would 18 that increase the desire to treat it 19 mechanically as opposed to medically? 20 MR. MISHKIND: Objection. 21 Go ahead. 22 Absolutely. And, in fact, she had a 23 Α. very mobile vegetation on the 25th. However, 24 it's usually a size of 1 centimeter or so, that 25

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is kind of the breakpoint at which point you 1 start to consider doing surgery or not doing 2 surgery, so hers was kind of a borderline case 3 for considering doing surgery even on the 25th, 4 but that's why I said, at that point in time on 5 the 25th, it would have been within the 6 standard of care to either do surgery and treat 7 it with antibiotics right away or to just treat 8 her with antibiotics right away. 9 When you say that Dr. Zirafi did not 10 Ο. have information regarding fever and fatigue, 11 are you discounting what Dr. Balanson's records 12 and Dr. Parris's records, indicating that at 13 least she did have that information? 14 MR. DZENITIS: Objection. 15 Let me refer you to Dr. Balanson's 1.6 Ο. discharge summary on, I guess, Page 1. Under 17 the past medical history, Dr. Balanson says, 18 significant for rheumatic fever as a child, she 19 does use antibiotic prophylaxis before dental 20 procedures. She has not had dental work 21 recently but relates visit to ENT in December 22 1998 for hoarseness. 23 Before you go any further, let me Α. 24 25 see.

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99 Zola The discharge summary, it's dated 1 Ο. 2/14/99 through 3/11/99. 2 I need to see the top part. З Α. Yes, okay. 4 In the paragraph beginning, past 5 Q. medical history, second paragraph. 6 7 Α. Yes. I've read part of it to you, about 8 Ο. four lines down, fever began about one month 9 after the ENT visit, so the ENT visit we know 10 was mid December, so based upon at least this 11 12 dictation, the fever would have begun by mid January? 13 14 MR. DZENITIS: Objection. Again, says about one month, that's 15 Α. not extremely precise as to when she had a 16 fever, not only that but it's a retrospective 17 past medical history given by Dr. Balanson in 18 the hospital and dictated sometime on or around 19 3/11/99. I would just refer you back to 20 Dr. Zirafi's note in which she clearly 21 documents a detailed, you know, medical history 22 and physical exam at which point she says the 23 patient or she, Maria O'Donnell, denies any 24 fevers or chills. 25

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l	Q. Then in Dr. Parris's office visit of
2	2/8/99, he in the second paragraph of that
3	dictation he says, about I'll start the
4	third line down, he started her on Prevacid for
5	possible laryngitis, her voice came back, but
6	she seemed to have fever and fatigue. She saw
7	Dr. Zirafi as an internist for fever and
8	fatigue.
9	MR. MISHKIND: Now, your question
10	is before he answered, I want to make
11	sure I understand your question.
12	Q. I'm asking if you took those that
13	information into account when you made the
14	decision the determination that Dr. Zirafi
15	did not have that information?
16	MR. DZENITIS: Object to the form.
17	A. Yes, I did, in that, again, this is
18	Dr. Parris writing things based upon his
19	impression and talking to the patient Maria
20	O'Donnell about what was supposedly happening
21	when the patient saw Dr. Zirafi, whereas we
22	have a very detailed and complete documentation
23	by Dr. Zirafi about what actually did happen
24	when she saw the patient.
25	Q. That is certainly important to take

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Zola into account what the patient tells you about 1 what has been happening, correct? 2 Yes, absolutely. 3 Α. Do you know Dr. Zirafi? Q. 4 Not at all. 5 Α. Q. Do you know any of the other 6 Defendants in this case? 7 I don't believe so. Remember, I've Α. 8 already answered -- well, okay. 9 MR. MISHKIND: Wait for the next 10 question. 11 Q. I believe you've answered this 12 question, Doctor, but would Maria O'Donnell 13 likely have needed a valve replacement at some 14 point even if she had not developed bacterial 15 endocarditis? 16 MR. MISHKIND: Objection. 17 Go ahead. 18 I can't answer that because the only Α. 19 study that I've seen on her was from -- the 20 first echo is from 1/28/99 at which point she 21 already had endocarditis and already had 22 moderately severe mitral regurgitation, 23 although her left atrium was only very mildly 24 enlarged implying that the mitral regurgitation 25

had either been there for a short period of time, and actually I should have -- that should have been part of my answer when you asked me why did I think she had endocarditis when she saw Dr. Zirafi.

Part of the reason is also, I said the clinical course and didn't necessarily list every detail, but that's actually an important detail that at that point in time, she had moderately severe mitral regurgitation on her echocardiogram, but her left atrium was not particularly enlarged implying that the moderately severe mitral regurgitation had only been there for a short period of time. And since there's no other specific process that occurred with Maria O'Donnell to make her suddenly have worsening mitral regurgitation, her worsening mitral regurgitation must have been secondary to endocarditis causing damage to her valve and causing more leak.

So that's another reason why we know that she had underlying endocarditis at that point in time on 1/28/99, understanding that's all retrospective, looking at the size of the left atrium and what subsequently happened to

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1	her left atrium. However, that is the first
2	echocardiogram that I have on this patient, and
3	so I can't tell you how much mitral
4	regurgitation she had before that except that
5	it must have been less than before that, she
6	had to have at least a reasonable sized left
7	atrium, if not normal, and therefore, that
8	there is no way to say that she necessarily
9	would have required ever having to have that
10	valve replaced. We just don't know what the
11	state of her valve was before that point in
12	time.
13	Q. Would you agree that of the
14	practitioners that treated Maria between
15 ·	January of 1999 and her admission to the
16	hospital on February 24, that Dr. Zirafi had
17	the most specialized training for diagnosing
18	and treating bacterial endocarditis?
19	MR. MISHKIND: Objection.
20	Go ahead.
21	A. I can't answer the question the way
22	you've asked it, it's a yes and no answer,
23	because obviously she has more training in
24	cardiology and she would have seen more
25	cardiology cases, but the diagnosis is an

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internal medicine type of problem that any internal medicine doctor or any internal medicine type of doctor should be able to diagnose.

Q. Is there any specialty of physician that you believe would not have a duty to be able to diagnose bacterial endocarditis?

MR. MISHKIND: Objection.

Go ahead.

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Well, yes and no. Again, any Α. physician should be able to recognize that someone has a potentially serious infection and make sure that they get appropriate help, but, for instance, Dr. Kalucis, who is an ear, nose and throat physician, would not really be adept at or typically making -- doing the diagnostic workup for endocarditis. It's easy enough for him to have blood cultures drawn on the patient, has an infection, if she has a fever that's ongoing and make sure that patient gets to proper medical care, but proper medical care would be an internal medicine or primary care type of physician ensuring that the patient had blood cultures, and blood cultures are easy to do.

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105 Zola. Q. Certainly Dr. Kalucis could have 1 ordered those, correct? 2 Α. He could have, but that wouldn't 3 have been his job to do so, in that his job 4 would have been more to make sure that the 5 patient was seen by an internal medicine type 6 of doctor to ensure that the proper tests would 7 have been done and proper follow-up was 8 9 arranged. Doctor, in your letter -- your Ο. 10 opinion letter, you indicated that at the time 11 12 Dr. Parris saw the patient, that he knew of a history of mitral regurgitation and 13 post-rheumatic fever, correct? You want to 14 look at your --15 I want to look at both records. 16 Α. It's on Page 2 of your report. 17 Q. What are you referring to 18 Α. specifically? 19 The third paragraph on Page 2. 20 Q. Α. You mean the first sentence? 21 Yes. 22 Ο. At which time the important findings 23 A included her history of mitral regurgitation, 24 post-rheumatic fever. 25

	106 Zola
1	Q. That's one thing that you noted that
. 2	Dr. Parris had information about?
З	A. Yes. Do you want to know why I came
4	to that conclusion?
5	Q. Sure.
6	A. Because we have in Dr. Parris's
7	note, the typewritten note from 2/8/99 where it
8	says very specifically, the patient's past
9	medical, allergic and surgical history is
10	reviewed and notations made on the problem
11	list. We then have the forms that were filled
12	out by Maria O'Donnell, which are dated 2/9/99,
13	but I believe that that is a mistake since
14	these forms were reviewed by Dr. Parris on
15	2/8/99, and on those forms it very clearly
16	states that the patient listed herself as
17	having rheumatic fever and heart murmur in 1958
18	and rheumatic fever and also under illness or
19	surgery, 1958, rheumatic fever at Rainbows
20	Hospital.
21	Q. So you're basing your opinion on
22	Dr. Parris having reviewed the what did you
23	call this document?
24	A. It's a medical history sheet, but
25	it's also it's noted in here as todays

written guestionnaire in Dr. Parris's note. 1 You also note in your opinion letter 2 Q. or mention her positive skin test for 3 tuberculosis. What significance, if any, does 4 5 that have to this case? Only in that anyone complaining of 6 Α. 7 persistent fevers and, again, lack of other types of symptoms or findings to point to a 8 specific type of infection, you'd have to worry 9 that the patient might also have disseminated 10 tuberculosis, actually, I shouldn't say 11 disseminated tuberculosis, an infection with 12 tuberculosis, whether it be disseminated or in 13 an individual area. 14 And he notes -- you note that she Ο. 15 had complaints of fever, fatigue, chills and a 16 heart murmur dating back to 1958? 17 Are you reading from my note now? 18 Α. Yes, and all of the findings that --19 Ο. all of the history and findings that were 20 available to Dr. Parris were also available to 21 22 Drs. Balanson, Kalucis and Hollin, would that 23 be fair? I believe so, yes. I mean, in one 24 Α. form or another -- well, no, that's not 25

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necessarily true. They weren't necessarily all 1 available to Dr. Kalucis, he wouldn't have had 2 the same intake forms. 3 He could have asked the same Ο. 4 5 questions? Yes, he could have. 6 Α. If one doctor has a duty to take an 7 Ο. accurate history, then all the doctors have a 8 duty to take an accurate history, wouldn't that 9 be fair? 10 A. Yes. 11 Doctor, can you tell me, you talked 12 Ο. a little bit about your practice, you say 13 you're in a solo practice. How many patients 14 do you see a week? 15 Let's say an average of 15 a day 16 Α. times 5 days would be 75, plus whomever else I 17 might see, hospital or shots or something like 18 that, so I don't know, anywhere from 75 to 100 19 patients a day -- I mean a week, except if I 20 21 take a day off to testify or do something like that, that will, of course, cut back on the 22 number of patients that I saw that week. 23 But an average week when you're in 24 Q. the office for the whole week or working the 25

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109 Zola ~ whole week, you see a total of about 75 patients? 2 Α. That's probably a reasonable 3 estimation. 4 Do you take a day off during the 5 Ο. week? 6 No, not usually. 7 Α. Ο. Now, I think you testified about 8 this before, you spend really very little time 9 in the hospital; is that --10 Compared to the amount of time I 11 Α. spend in the office, yes. 12 The report that you wrote, and I'm 13 Q. sorry if I asked these questions over again 14 because I'm kind of forgetting some of the 15 things that Bev asked you, did you change the 16 report in any way at any time? 17 This is my final report. I mean, Α. 18 19 there were undoubtedly drafts that existed that I might have had to word things differently or 20 21 put commas in or, you know, punctuation or whatever, but I mean, I didn't write this 22 23 perfectly right from my head as if I was Mozart composing music. 24 Did you ever provide a draft report 25 Ο.

to Mr. Mishkind and then ultimately dictate 1 another report or change the report that had 2 been submitted? 3 It's possible I may have done it, Α. 4 but I don't recall having done that 5 specifically. I mean, I usually do at least a 6 first draft if not five drafts while I'm 7 writing the report thinking about it some more 8 and getting it down on paper and changing it 9 and everything else, so it's possible that at 10 any point in time while I was working on it, I 11 might have sent him something just to see what 12 I was formulating for opinions, but I just 13 don't have a specific recollection of that 14 right now. 15 Were you ever asked to make changes 16 Ο. 17 in the report? Not that I recall. I mean, I don't 18 Α. usually get asked to make changes, nor would I 19 necessarily make changes in a report. If it's 20 my opinions, those are going to be my opinions 21 based upon my review of the material. 22 I might make additions to it if I 23 receive further information that I think 24 changes the opinions in some way, and when I 25

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received the further records that I did 1 receive, it changed things subtly in that I now 2 had clear-cut evidence, for instance, that 3 Dr. Hollin did have this intake form that Maria 4 O'Donnell listed her heart disease, rheumatic 5 fever type stuff on it. But that still didn't 6 change the opinion that Dr. Hollin had an 7 obligation to either review that form or ask 8 the questions himself and get that information 9 when deciding on how to treat Mrs. O'Donnell, 10 or Miss O'Donnell, I'm not sure which one it 11 is. 12 MR. MISHKIND: Mrs. 13 Did you discuss this case with any 14 0. other physicians? 15 16 Α. No. I notice in your CV that you've 17 Q. practiced at a number of various facilities 18 since you started practicing medicine, 19 sometimes for a couple of years, sometimes for 20 21 more. Were your changes from one facility to another always related to business or monetary 22 23 factors? Well, no, they may have been related Α. 24 25 to a different job. I mean, I was full-time

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faculty for, whatever, seven years at New York 1 Hospital. I then took a position as the vice 2 chairman of medicine and chief of cardiology at 3 Brookdale Hospital. I then came back in 4 private practice in Manhattan, and I then 5 changed affiliations with various hospitals, 6 various doctors, changing office practices and 7 the different physicians that I'd been working 8 with depending on how different business 9 situations arose or opportunities arose. 10 Were you ever a full professor in Q. 11 medicine? 12 No, I was only in a full-time 13 Α. academician for approximately ten years, so the 14 usual sequence of events would be assistant 15 professor for approximately seven years, 16 associate professor for seven years, full 17 professor after that. 18 You've discussed the fees that you 19 Ο. charged for reviewing cases. In 19 -- no, 20 let's say in 2002, how much did you earn doing 21 medical legal reviewing and testifying? 22 MR. MISHKIND: Objection. 23 If you know, go ahead. 24 25 I don't know. I haven't done my Α.

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113 Zola taxes for 2002 yet, so I couldn't give you a 1 total. I'll estimate it at somewhere --2 estimate it as somewhere in the neighborhood of 3 \$150,000. 4 Q. I assume that you've never had your 5 license to practice revoked, suspended, б modified in any way? 7 A. Well, whether you assume or you 8 don't, I haven't. 9 MR. MISHKIND: It was an accurate 10 assumption on your part. 11 You're board certified in what Q. 12 13 specialties? In internal medicine and cardiology, 14 Α. as listed in my curriculum vitae. In terms of 15 when I took the boards, having passed them the 16 first that I took them and having taken them 17 the first time that they were available to me. 18 Q. In, I think, the initial CV that I 19 had, it mentioned that you were a fellow of the 20 chest surgery? 21 A. American College of Chest 22 Physicians. 23 What does that mean? Ο. 24 That means there's an American 25 Α.

College of Chest Physicians made up of chest 1 surgeons, pulmonologists, internal medicine 2 doctors, and to become a fellow, you had to 3 have contributed to the field in terms of 4 teaching, research, practice, in some way been 5 deemed outstanding enough to qualify as a 6 fellow in the society. And so I -- whatever I 7 earned the title fellow, you know, through my 8 publications, teaching, that sort of thing, 9 same thing as a fellow in the American College 10 of Cardiology. 11 You mentioned that you had done a Q. 12 number of, I think you called them, exchange 13 electives? 14 When I was a medical student, yes. Α. 15 What is the purpose of doing Ο. 16 exchange electives? 17 So that you get to live in a Α. 18 different city, meet new people, see different 19 types of medicine practiced in different parts 20 of the country in different subspecialties; for 21 instance, when you practice infectious diseases 22 in southern Los Angeles, you -- some of the 23 things that I saw that I wouldn't have seen 24 otherwise were probably things like leprosy or 25

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parasitic diseases or valve infections in 1 patients that had endocarditis from that part 2 of the country, which might involve different 3 organisms than the valve infections that I had 4 seen in Baltimore at Hopkins or the valve 5 infections I might have seen up in Boston at б Harvard medical school and its hospitals, those 7 sort of things. 8 Is this something that is typically 9 Ο. done by physicians in training? 10 I can't tell you typical or not, a 11 Α. lot of people do it. I don't know if typical 12 means more than 50 percent or not, so I don't 13 want to give you a legal definition that way, 14 but lots of people do it because the medical 15 schools, to some degree, encourage it. Ιt 16 would be the same thing as being an exchange 17 student in college where you took courses at 18 another university. 19 20 I think perhaps you were asked this Q. question. What percentage of your income is 21

derived from medical legal work?

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MR. MISHKIND: Objection, but go ahead.

A. I'd quess approximately 10 percent.

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116 Zola Q. Have you ever practiced with a 1 2 group? Well, yes, when I was full-time Α. 3 faculty at either Cornell or full-time employee 4 at the hospital, I was a member of groups of 5 physicians at that time, but otherwise since 6 1997, I've been in solo practice. I've been in 7 offices with other physicians, but we all have 8 separate practices, we just share facilities or 9 rent or space or whatever. 10 Have you ever treated a patient with 11 Ο. bacterial endocarditis? 12 I'd say probably hundreds of times. 13 A. When was the last time you treated a 14 Q. 15 patient with bacterial endocarditis? Within the last year. Α. 16 Ο. How many have you treated within the 17 last year? 18 Only one or two that I can think of. 19 Α. 20 In other words, there may have been other patients that I treated that had bacteria in 21 their bloodstream and that we were worried 22 about it being endocarditis and ended up 23 treating it as if it were endocarditis, but I 24 can't say for certain that it was endocarditis. 25

You listed a number of companies or 1 Q. affiliations related to perhaps having your CV 2 and forwarding cases to you for review, but do 3 you do any type of advertising yourself as far .4 as medical legal expertise? 5 6 Α. No. I don't even know how some of those companies contacted me. I believe some 7 of them found me in the Jury Verdict Reporter 8 because I was listed as having been listed as 9 an expert witness, I can't even tell you. The 10 only time that I ever actually even submitted 11 anything to anyone was at the request of a 12 lawyer from a defense firm in Manhattan who 13 asked me to send him a CV or curriculum vitae 14 and outlining, you know, what I've done for 15 medical malpractice, and so I wrote him a 16 little cover letter and sent my curriculum 17 vitae to that law firm. 18 Have you ever been sued for 19 Ο. malpractice yourself? 20 MR. MISHKIND: Objection. 21 22 Α. Yes. How many times? 23 Q. MR. MISHKIND: Objection. Let me 24 show a continuing line of objection, but

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you can continue to answer the question. 1 I believed I was a named defendant Α. 2 three times, although it might have been twice 3 with me as a nonparty witness once. All of 4 this is written down somewhere, it 5 automatically gets submitted for all 6 credentialing and things like that. 7 One or two of the cases were, I 8 think, dismissed without or with prejudice or 9 something like that. One of them involved a 1.0 patient that had a cardiac arrest in the 11 electrophysiology lab that ended up in my CCU 12 when I was the full-time associate director of 13 that CCU. In fact, these all date back when I 14 was full-time faculty at New York Hospital, so 15 they all date back to before 1995, I believe. 16 Another one, I don't even remember 17 the circumstances of that case, another one was 18 for a patient that had a rare reaction to 19 Heparin or a blood thinning drip, he was in the 20 intensive care unit, who ended up losing a 21 piece of his hand. 22 You treat only adults? Q. 23 No, I have seen whatever you would Α. 24

call human beings under the age of 18, whether

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119 Zola you call them children or not, usually they 1 tend to be big children. 2 MR. MISHKIND: Depends upon which 3 parent you're speaking to. 4 So overwhelmingly, more than Α. 5 99 percent of my patients are over the age of 6 18. 7 MS. MOODY: I don't think I have 8 anything further. 9 MR. MISHKIND: David, you want to go 10 next? 11 MR. MOSS: Let me go. 12 EXAMINATION BY 13 MR. MOSS: 14 I don't have too much, Doctor, I'm 15 0. going to be skipping around a little bit, so 16 bear with me, please. 17 I want to just go -- and I represent 18 Dr. Hollin. As I took down your opinions with 19 respect to Dr. Hollin, you indicated that he 20 deviated from the standard of care on 21 February 18th of 1999 in failing to obtain an 22 adequate history to appreciate the patient's 23 history of rheumatic heart disease, and in 24 light of her history of rheumatic heart disease 25

with a history of 12 days of fever, Dr. Hollin 1 should have had a strong suspicion for 2 endocarditis and therefore should have ordered 3 an EKG, blood work including a CBC and 4 differential and a sedimentation rate and blood 5 cultures. 6 Is that essentially the sum total of 7 your criticisms of Dr. Hollin in this case? 8 I'm going to have some follow-up questions, but 9 I want to make sure I took everything down. 10 No, it's not. My general total is А. 11 whatever I testified to already, so you've 12 paraphrased it and I believe you've left some 13 things out, but some of the things you left out 14 also include making sure that the patient had 15 adequate follow-up or having then admitted the 16 patient to the hospital or send the patient to 17 the hospital or, you know, all the other things 18 that I talked about beforehand. 19 All right. Some of these criticisms Q. 20 you're offering for the first time today with 21 respect to Dr. Hollin, in other words, they 22 were not included in your report; is that fair? 23 MR. MISHKIND: Objection. 24 I don't think that's true, but let Α. 25

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It's quite possible that some of 1 me just see. my criticisms are more specific today. 2 There's no mention in your report Ο. 3 that Dr. Hollin deviated from the standard of 4 care in failing to order an EKG, is there? 5 That's true, but -- at the same time 6 Α. that's true, but it's true because in my report 7 I didn't include it, because although I think 8 it's a deviation from standard of care that he 9 didn't order an EKG, I do not think the 10 findings of the EKG at the time would have been 11 important in the care of this patient at that 12 point in time. 13 Okay. So you would agree then that Q. 14 that failure did not cause or contribute to any 15 harm to this patient? 16 Α. Correct. 17 All right. Maybe this will Ο. 1.8 streamline everything if that's the basis upon 19 which you left some of these things out of your 20 21 report. With respect to the blood work, your 22 report does not mention anywhere that 23 Dr. Hollin deviated from the standard of care 24 in failing to order a WESD, a sed rate, 25

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A. Correct.

Q. Is that because you don't believe that would have made any difference in the ultimate outcome?

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A. No, it's because he did get a CBC and I'd actually thought that he had ordered a sedimentation rate at the time, because when I went through the records, I mixed up the test that was done in the hospital with what I thought he had ordered, so I thought it actually had been done. But upon relooking through the records, it should have been done at that time, and it would have been markedly elevated, but it still would have played a backseat role to have -- obtaining blood cultures.

Q. All right. I just want to -- need to know whether or not you believe that Dr. Hollin's failure to get a sed rate was a proximate cause of any harm to this patient.

MR. MISHKIND: Objection. Are you talking about in isolation or in conjunction?

MR. MOSS: He just explained,

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1	Howard, the basis upon which he's saying
2	that that's a criticism. I want to know
3	whether he has an opinion that that
4	criticism or that failure to get the sed
5	rate caused any harm to this patient.
6	MR. MISHKIND: Okay. I'm going to
7	object to the form of the question, but go
8	ahead.
9	A. Yes, I believe it did.
10	Q. Okay. Tell me what that was.
11	A. Well, I believe that if he had done
12	a sedimentation rate, it would have been
13	markedly elevated, and that would have been
14	another piece of information along with this
15	patient's CBC test results and blood culture
16	results which would have caused either him or
17	someone that he sent the patient to very
18	shortly thereafter to have hospitalized this
19	patient and gotten her proper treatment for her
20	endocarditis.
21	Q. Now, you also indicated in your
22	deposition earlier that you mention that he
23	deviated from the standard of care in failing
24	to get blood work including CBC and
25	differential. Dr. Hollin did, in fact, order a

CBC and differential on this patient, did he not? Well, he didn't get it that night. Α. I believe he got it the next morning. All right. And are you critical of Q. the fact that he was unable or did not get it that night? Yes, I am, although I don't believe Α. that him not getting it that night was an overwhelming cause of this patient's stroke, or I should say, was a significant contributing factor to this patient's stroke, but it's hard to say that, only in that I can't isolate these things out individually in a sense this patient

14 things out individually in a sense this patient 15 had physicians deviating from the standard of 16 care back to February 8, and everything that 17 happened after that point contributed to her 18 eventually having a stroke from an infection 19 that was not properly treated within the 20 standard of care.

Q. Appreciate that, Doctor, but you understand that the legal standard for medical malpractice includes deviation from standard of care but approximate cause, you understand that, correct?

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Zola A. Yes. 1 That's why I'm asking these 2 Q. questions, these specific questions, and I 3 need -- I really need to know what your opinion 4 is with respect to each of these criticisms. 5 Okay. Then him --Α. 6 7 I'm asking --Q. So let me answer your question as Α. 8 best as I can in saying that him not obtaining 9 a CBC that night contributed to this patient's 10 stroke. 11 12 Q. In what way, Doctor? In that it delayed her diagnosis Α. 13 that much more further or at least the 14 potential to diagnose her that much more 15 16 further. How long did it delay her diagnosis 17 Ο. or potential for diagnosis? 18 It put off her blood testing for 19 Α. another eight to twelve hours. 20 21 It's your opinion that that eight to Q. twelve-hour delay resulted in additional harm 22 23 to this patient; is that your testimony? Yes, in the sense that all the 24 Α. delays from February 8, 1999 on contributed to 25

Zola this patient's stroke, that is all the delays 1 in treating this patient with antibiotics. 2 Q. Is there a particular reason, 3 Doctor, why you did not include the opinion 4 about the failure to do an EKG and a failure to 5 obtain sedimentation rate, CBC and 6 differentiation that night in your report? 7 I just focused on what I Α. No. 8 thought was the most important thing at that 9 point in time. 10 Do you understand that the purpose 11 Ο. of your report is to outline your opinions so 12 that we know what your opinions are and can 13 defend our respective clients, correct? 14 MR. MISHKIND: Objection. 15 Go ahead. 16 If you tell me so, yes. 1.7 Α. Well, isn't that -- in your work in 18 Q. this field, isn't that typically the purpose of 19 a report, so that the other side knows what 20 your opinions are going to be at trial? 21 Yes, or at least knows what my 22 Α. opinions are likely to be at the time of 23 deposition. In other words, I also knew that I 24 was going to be deposed, and therefore, I would 25

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-1	have a chance to expand upon my opinions as
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2	listed in the report, and so I didn't feel that
3	I needed to detail and list every single thing
4	that I could think of going down every single
5	line of the medical records, but rather to try
6	to give both a broad overview of my opinions
7	and what I thought were at least some of the
8	more important details.
9	Q. How many pages of medical records
10	are there from Dr. Hollin in this case, Doctor?
11	MR. MISHKIND: Do you want him to
12	count the records?
13	Q. Essentially one page, is there not?
14	A. I've got about nine pages here which
15	include the MedCenter front sheet, a chest
16	X-ray report, a CBC report, a MedCenter, I
17	don't know what this is, a registration sheet
18	of some sort.
19	Q. I'll take your word for it, there's
20	nine pages of records?
21	A. See, that's not one.
22	Q. There's only one page that has
23	Dr. Hollin's writing on it, is there not?
24	A. I don't know because my discharge
25	,sheet for the patient has writing on it that, I

think, is probably not Dr. Hollin's writing 1 because it is actually legible and readable, 2 but I'm not sure whose it is. It doesn't look 3 like his writing, but I also have a 4 prescription from Dr. Hollin with his writing 5 6 on it, that's in my records. Okay. Is it your opinion, Doctor, 7 Ο. that Dr. Hollin should have had a duty to make 8 a diagnosis of bacterial endocarditis in the 9 urgent care center on April -- sorry, on 10 February 18 of '99? 11 No, it was not his duty to diagnose Α. 12 the patient with endocarditis. It was his duty 13 to recognize that this patient was extremely 14 high risk for having endocarditis and to ensure 15 that diagnostic testing was performed which 16 would help make that diagnosis and that the 17 patient was sent to a practice facility or 18 provider or health care provider such that they 19 could get treatment for presumptive 20 endocarditis. 21

> Q. And one of the providers to provide such treatment would be Ms. O'Donnell's primary care physician, correct?

> > A. Correct.

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Zola And Dr. Hollin did make a referral 1 Q. to her primary care physician for follow-up, 2 correct? 3 Yes, but not for three to five days, Α. 4 according to what is listed in his little 5 6 follow-up box on the front sheet from the MedCenter, which was a deviation from standard 7 8 of care. But he did see that the diagnostic 9 Q. 10 test results were provided to the primary care physician the following day, correct? 11 No, he did see that his incomplete 12 Α. and inadequate diagnostic testing was provided 13 to her primary care physician the next day. 14 MR. MOSS: I'm going to move to 15 strike the characterization. 16 He did see, Doctor, that the blood 17 Ο. work that he ordered and the chest X-ray that 18 he ordered, both of which are diagnostic tests, 19 were provided to her primary care physician the 20 following day, can we agree to that? 21 MR. MISHKIND: Note my objection. 22 I believe so. I'd have to go back 23 Α. through Dr. Parris's records to determine when 24 precisely he received the CBC and the chest 25

Zola X-ray from Dr. Hollin or from the MedCenter, 1 but I believe it was the next day. 2 You have offered criticisms of Ο. 3 Dr. Kalucis and of Dr. Cuglewski in this case, 4 correct? 5 MR. MISHKIND: Objection. 6 Go ahead. 7 Yes. Α. 8 Is it your opinion from the 9 Ò. deviations from standard of care by 10 Drs. Kalucis, Cuglewski, were the proximate 11 cause of harm to this patient? 12 I can only say that both those Α. 13 physicians, that their deviations from standard 14 of care reduced the likelihood of her not 15 having a stroke, and I'm making all these 16 opinions within a reasonable degree of medical 17 certainty or more likely than not; however, I 18 cannot say that their deviations more likely 19 than not caused her stroke. 20 I understand, but what you are Ο. 21 saying is that their deviations increased the 22 likelihood or not -- that's not the way to say 23 it -- strike that. 24 Their deviations increased her 25

131 Zola chance of having a stroke? 1 MR. MISHKIND: Objection, but go 2 ahead. 3 O. May not prevented it, but increased 4 the chance of it occurring? 5 MR. MISHKIND: Same objection, but 6 7 qo ahead. Α. Yes, I think that that's another way 8 of saying it. 9 Q. Okay. 10 Doctor, do you have an opinion --11 well, let me back up. 12 Miss O'Donnell had just completed a 13 ten-day cycle of doxycycline when she saw 14 Dr. Hollin on February 18, '99 correct? 15 16 Α. Yes. Q. You would agree that that fact may 17 have resulted in blood cultures having -- if 18 blood cultures had been taken on the 18th, the 19 fact that the patient had just completed that 20 cycle of antibiotics may have resulted in those 21 cultures coming back negative? 22 MR. MISHKIND: Objection. 23 Go ahead. 24 Α. No, it would not have since we 25

specifically know that the bug she grew out on her valve was essentially resistant to that antibiotic. Q. You hold that opinion to the

reasonable degree of medical probability?

A. Yes.

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Q. You would agree that the physicians who treated her in the hospital had concerns about the validity of the initial set of blood cultures because of the patient's recent antibiotic therapy, correct?

A. Correct, but at the same time, their concerns involved her having had doxycycline beforehand but specifically her being on Biaxin at that point in time when she was hospitalized.

Q. That's because Biaxin probably was somewhat effective in treating the strep viridans and Strep. mitis organisms that Mrs. O'Donnell had, correct?

A. Yes, it would have been somewhat effective, it wouldn't have cured it, it might have suppressed it to some degree, and it might have interfered with the ability to -- it might have interfered with the ability to grow things

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out in culture. Of course we know that it actually did not interfere with the blood cultures because she had her blood cultures drawn upon hitting the emergency room and those cultures grew out the organism. Is the fact that a patient has Ο. undergone recent antibiotic therapy ever an appropriate justification for delaying the administration of antibiotics in a patient who's suspected of having infectious endocarditis? MR. MISHKIND: Objection to the form, but go ahead. Yes, but only in a very clear-cut, Α. low risk case, that is, only when it's been documented and felt that the patient's at low risk for having complications from their endocarditis, and therefore, the benefits of waiting a short period of time and drawing repeat blood cultures while antibiotics might be clearing out of the bloodstream is that the benefits outweigh the risks of not treating an underlying, ongoing, potentially lethal

24 infection.

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Q. Doctor, would you agree that the

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1	criteria for diagnosing endocarditis are
2	positive blood cultures, positive
3	echocardiogram, new regurgitant murmur and
4	fever?
5	A. Those are some of the criteria. The
. 6	only one that really matters would be the
7	positive blood cultures in that in a patient
8	with positive blood cultures, I might have an
9	echocardiogram that doesn't show any
10	vegetations, but echocardiograms only show a
11	certain amount, and you can have small
12	vegetations that won't show up on an
13	echocardiogram, you may also have no change in
14	the patient's heart murmur if the endocarditis
15	is very early when it's caught and hasn't
16	significantly damaged the valve.
17	So the reality is it's the positive
18	blood cultures that, by definition, mean that
19	there's an infection in the bloodstream and if
20	a patient has any history of rheumatic fever in
21	the past or any abnormalities of their heart
22	valve, then it almost needs to be it almost
23	needs to be presumed according to the standard
24	of care that that patient has an infected heart
25	valve. In other words, you have to go out of

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1	your way to prove that the valve is not
2	infected.
3	Q. Is there any evidence in that
4	record, Doctor, that this patient
5	A. Sorry, let me finish my answer too
6	because I've been thinking about it a little
7	bit more.
8	The other thing is that it also
9	depends very strongly on the organism involved,
10	and with Strep. mitis of viridan strep species
11	like this, this is the type of bug that is
12	absolutely classic for infecting the heart
13	valve. There are very few other types of
14	things that you're likely to see this type of
15	bloodstream infection in with this type of
16	organism, although a sinus abscess or a tooth
17	abscess or something like that might cause the
18	patient to have bacterium or bacteria in the
19	blood stream from that particular bug, but
20	without question in a patient with no other
21	source of infection with a damaged heart valve
22	and Strep. mitis in the bloodstream, then the
23	diagnosis will be endocarditis or Strep. mitis
24	infection of the heart valve.
25	Q. Thank you, Doctor.

Based upon your review of these 1 records, have you seen any evidence 2 pathologically that this woman had rheumatic 3 heart disease? 4 Yes. Α. 5 Where have you seen that? 6 Ο. On her echo from 1/28/99 and then on 7 Α. the subsequent echos. The echo from 1/28/99 8 has changes on the valves that are very 9 consistent with rheumatic heart disease. Now, 1.0at the same time they are also consistent with 11 a valve with rheumatic heart disease that's 12 been infected. 13 Q. So that, in your opinion, is 14 significant to determine that this patient, in 15 fact, had rheumatic heart disease? 16 Yes, with her history of having been Α. 17 hospitalized with rheumatic fever and with 18 those echocardiographic findings, then more 19 likely than not this patient has underlying 20 rheumatic heart disease. 21 What exact findings on the echo are 22 Ο. you referring to? 23 The pattern of thickening of her 24 Α. heart valves. 25

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Zola What is that pattern? Q. 1 That her valves are thickened all Α. 2 the way throughout. 3 Why is that indicative of rheumatic Ο. 4 heart disease? 5 Because there are -- at her age and 6 Α. without any other types of illnesses, there are 7 very few things that will thicken the heart 8 valves like that, and given her past history of 9 rheumatic fever, then it's overwhelmingly 10 likely she has underlying rheumatic heart 11 disease. This is not a mystery and this is not 12 very difficult, this is very straightforward. 13 Did you review the pathology after 14 Ο. the removal of her valve? 15 At some point, yes. Α. 16 Is there any histopathological Ο. 17 evidence there that this valve was, in fact, 18 diseased with rheumatic disease? 19 I don't think it was necessarily 20 Α. adequately addressed, but you want to put the 21 report in front of me, if you know where it is 22 without having me go throughout all the records 23 to find it. 24 If you want, I will review the 25

138 Zola report with you now or do you want to just keep 1 2 moving on? I just want you to answer my 0. 3 question and I'd like to move on too. 4 Okay. Then I'll leave my answer the Α. 5 way I left it. 6 O. Well, I guess I'm not sure what your 7 answer is. Did you see any evidence in the 8 report? 9 As we speak, I can't recall, I'd Α. 10 have to go back and look at the report again. 11 I would like an answer then. 12 Q. MR. MISHKIND: He's doing that right 13 now. 14 Do you have the report in front of 15 Α. you, by any chance? 16 I'm looking for it myself. 17 Q. MR. MISHKIND: We are all looking 18 for it now, David. 19 I'm convinced I don't have it with Ο. 20 21 me. MR. MISHKIND: The doctor is looking 22 at the operative report, but I don't think 23 any of us are locating the path report 24 very readily, David. 25

Zola I've got the surgical report which 1 doesn't really say much of anything. Ι'm 2 not sure we can address --3 MR. MOSS: Let's just leave the 4 record as it is at this point. 5 MR. MISHKIND: Okay. Obviously if 6 there was something specific to it ... 7 I'll be more than happy to answer 8 Α. questions on it when we find it in either 9 10 interrogatory form or if you want to do a telephone continue of this for ten minutes or 11 something, we'll do whatever you want to do. 12 13 Ο. Doctor, have you ever spoken or given presentations to any attorney groups? 14 Not that I know of. Well, I mean, 15 Α. as like a formal lecture or speech? 16 I'm talking about, you know, 17 Ο. continuing legal education seminars or groups 18 of attorneys that are getting together for a 19 particular -- to review a particular issue. 20 I wish, but no, I haven't. 21 Α. Are there any particular texts that 22 Ο. you consider important or particularly reliable 23 on any of the issues that you are testifying 24 about in this case? 25

140 Zola MR. MISHKIND: Objection to the form 1 2 of the question, but go ahead, Doctor. No, not specifically. 3 Α. 4 Q. Have you done any specific research in connection with this case? 5 No, it wasn't necessary. The facets 6 Α. of this case are very, very straightforward. 7 The temperature that was recorded at 8 Ο. the time Dr. Hollin saw Mrs. O'Donnell in the 9 urgent care facility was 100.0, correct? 10 11 Α. Yes. Is there anything to indicate that 12 Q. Mrs. O'Donnell ever reported the temperatures 13 of 103.8 or 104.4, I think it was that you 14 mentioned, to Dr. Hollin? 15 A. No, not in the medical records of 16 Dr. Hollin, no, those are listed in 17 Dr. Parris's records. 18 The opinion that you've offered that 19 Q. had Mrs. O'Donnell been diagnosed and treated 20 earlier, it would have diminished the chance 21 22 that she had a stroke, can you quantify how much that chance would have been diminished? 23 24 MR. MISHKIND: I'm going to object to the form of the question because you --25

141 Zola he has testified to a probability on 1 certain dates, he's testified, reduce 2 chance on other dates, you've just sort of 3 thrown that out in general, so note my 4 objection to the form of your question, 5 б David. I would also say, I can't really 7 Α. answer that unless you get more specific. 8 Well, let me ask it this way: At 9 Ο. any point in time, can you say -- can you 10 quantify -- at any point in time, can you 11 quantify the degree to which Mrs. O'Donnell's 12 chance of suffering a stroke would have been 13 diminished had treatment been instituted? 14 MR. MISHKIND: Objection. 15 I've already answered that question. 16 Α. I said, you know, all the way up until, say, 17 the morning of 2/26/99, having treated her with 18 antibiotics -- appropriate antibiotics 19 intravenously before that time would have 20 diminished her chance of a stroke. 21 What I'm getting at, how much would 2.2 0. it have diminished? 23 I can't give you a number. I can Α. 24 only say it would have diminished it. It's 25

obviously a smaller and smaller amount. The 1 later and later in the course of her illness 2 that the doctors waited such that on 3 February 21 or 22, thereabouts, that's the 4 approximate time when treatment with 5 antibiotics no longer had a 51 percent chance 6 7 or more of preventing a stroke in Mrs. O'Donnell. 8 And why is it that you select that 9 0. date? 10 A. Because of the appearance of the 11 mobile vegetation on 2/25 which was 12 approximately four days later, because of how 13 long it takes to draw blood cultures, start 14 antibiotics, get the patient into the hospital, 15 all those sorts of things. I think 16 approximately four or five days would -- sorry, 17 I think three or four days would be a 18 reasonable amount of time to have gotten in 19 there before the 25th and started her on 20 antibiotics and that that would have likely 21 have prevented her stroke. 22 After that point in time, I just 23 think the closer and closer you get to the 24 25th, the more likely that that vegetation is 25

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already there and mobile and growing further and, of course, not only is it mobile and flopping around like on a stalk, but the head of it is growing even more and getting heavier and heavier, making it more likely to break off and cause a stroke. So I'm trying my best to give you a time period in which it was more likely to not happen if you treated her with antibiotics, but after that point in time, I can't be that precise except to say that it's less of a chance. How large a hospital is North Shore Q. University Hospital at Forest Hills? I honestly don't know. I don't keep Α. track of it. It's a community hospital in the New York City area. I couldn't tell you if it's 300 beds or 500 beds.

You have no idea? Ο. 19 I honestly don't know. It changes 20 Α. every month, when they close down one unit or 21 open up another unit, I don't even know what 22 counts as inpatient or outpatient these days. 23 They have all these outpatient centers treating 24 patients in the hospital, but I think they 25

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144 Zola count as outpatient not as inpatient beds, so I 1 don't --2 O. Give me a range. 3 I would say it's a medium-sized Α. 4 community hospital. 5 Give me a range of beds. Q . 6 I can't do that. I would guess 300 Α. 7 beds, I don't know. 8 MR. MISHKIND: It's okay if you 9 can't, that's your best answer. 10 Participating in some studies of Q. 11 cholesterol controlled medications and medical 12 devices at New York Hospital and Lenox Hill, do 13 you recall that testimony several hours ago? 14 Yes. Α. 15 You have no active role in actually Ο. 16 conducting those studies, correct? 17 With the exception of actually 18 Α. taking care of the patients in my practice and 19 referring to the -- referring them or enrolling 20 them in those studies, no. 21 MR. MOSS: Thank you, Doctor, those 22 are all the questions I have. 23 THE WITNESS: You guys realize it's 24 after 2 o'clock? 25
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1	MR. MISHKIND: Shortly.
2	EXAMINATION BY
3	MR. DZENITIS:
4	Q. My name is Paul Dzenitis, I
5	represent Dr. Zirafi. That doesn't count as a
6	question.
7	You did not identify any criticisms
8	of Dr. Zirafi in your January 17, 2001 report,
9	correct?
10	A. Correct.
11	Q. You are of the opinion, and I think
12	you testified, that Dr. Zirafi acted reasonably
13	in treating Ms. O'Donnell?
14	A. Yes.
15	Q. Nonetheless, Ms. O'Donnell had
16	infective endocarditis on January 25, 1999?
17	A. Yes.
18	Q. How is it that Dr. Zirafi could be
19	acting reasonably when she's a cardiologist,
20	she has specialized training in this area and
21	Ms. O'Donnell has infectious endocarditis when
22	she sees her?
23	A. Because her infectious endocarditis
24	at that time was subacute, also maybe
25	subclinical, as it's called, in other words,

she didn't have clinical symptoms or findings 1 at that point in time to indicate that she had 2 an underlying infection. It was brewing 3 underneath. It is also possible that Maria 4 O'Donnell had taken antibiotics on her own some 5 time soon before she saw Dr. Zirafi which 6 basically suppressed all of her symptoms and 7 made her look healthy or healthier at that 8 point in time such that there was nothing going 9 on at that time that would have clued 10 Dr. Zirafi in -- or clued in Dr. Zirafi to the 11 idea that she had an active infection that was 12 active at that point in time. 13 So if -- and again, I've already 14 15 answered the hypothetical, if it turns out that Dr. Zirafi did somehow know that she had a 16 fever at that point or that she had just had a 17 fever the day before or, you know, very, very 18 shortly before that or had had a long series of 19 20 fevers beforehand or had spiking fevers or intermittent fevers, it's a whole different 21 issue, but that's very clearly not documented 22 in her well-documented, thorough and 23 well-written report, so there's no reason to 24 think that -- that she didn't take that history 25

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appropriately and get that history. 1 You were asked questions about 2 Ο. communication of the results of the 3 echocardiogram to the other medical doctors, 4 and I think you indicated that you would have 5 done things differently, but you didn't think 6 that Dr. Zirafi deviated from the standard of 7 care in her actions; is that correct? 8 Correct. 9 Α. Why is it your opinion that she did 10 Q. not deviate from the standard of care in 11 communicating the results of the 12 echocardiogram? 13 Well, because the results of the Α. 14 echocardiogram did not require emergency 15 notification of anyone. They really just 16 required making sure that Maria O'Donnell had a 17 physician that was going to take care of her, 18 that knew she had rheumatic heart disease, that 19 knew she had mitral regurgitation and that 20 should have known, therefore, that Maria 21 22 O'Donnell would have needed antibiotics before dental work, which she was taking already 23 anyway, that sort of thing, for general- 24

informational purposes and routine medical care

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Zola

and follow-up, but it wasn't an emergency. 1 So whereas I would have followed up 2 with a patient specifically and made sure that 3 the patient knew and told the patient that she 4 needed to notify me when she saw the other 5 doctor so we could be sure to get that 6 information to the other doctor, as long as 7 that information got to the other doctor and as 8 long as Maria O'Donnell was being followed by 9 another doctor such as Dr. Parris, then it 10 was -- then things got done. 11 Let's assume there were not results, Q. 12 or the information from the report was not 13 given to the subsequent treating physicians. 14 Was there sufficient information on February 8 15 for the physician treating her to order the 16 proper tests resulting in the diagnosis of 17 infective endocarditis? 18 MS. MOODY: Objection. 19 Absolutely, in that we've already 20 Α. discussed that they -- Dr. Parris knew on 21 February 8, again, from that intake form, from 22 23 the other things we've discussed, that she had a history of rheumatic heart disease, that she 24 25 had a history of a particularly high fever at

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Zola

103.8 and 104.4, and therefore, was extremely 1 high risk for having underlying endocarditis, 2 so it almost doesn't matter what the results of 3 her echocardiogram were or were not beforehand. 4 The same thing would have still needed to be 5 done, which is the diagnostic testing that I 6 said to help make the diagnosis of infectious 7 endocarditis. 8 In your words, did it matter what 9 Ο. the results of the echocardiogram tests were to 10 the physicians treating her on February 11? 11 No, it did not. Again, if they had 12 Α. seen the echo, perhaps it would -- might have 13 stimulated them to be more vigorous in ordering 14 the blood tests on this patient, but you don't 15 need the echocardiogram results to know that 16 the patient has a history of rheumatic heart 17 disease. 18 Same question with February 18? 19 Ο. Same answer all the way through. 20 Α. 21 Q. And February 22? Same answer all the way through. 22 Α. 23 Do you spend over 50 percent of your Q. professional time in the active practice of 24 25 medicine or teaching?

Zola

If you mean by medicine, medicine --1 Α. internal medicine and cardiology, yes, as I've 2 already answered, I spend -- maybe you didn't 3 hear it before because it was before, but it's 4 5 more than 90 percent. And you're licensed to practice Ο. 6 medicine in New York? 7 Yes. Α. 8 Are you familiar with the standard 9 Q . of care as it applies to internal medicine 10 physicians? 11 Α. Yes. 12 MR. DZENITIS: Thank you. 13 MR. MISHKIND: Any follow-up? 14 MS. HARRIS: I just have a couple of 15. questions and I'll be real quick, Doctor. 16 FURTHER EXAMINATION 17 BY MS. HARRIS: 18 The closer that you get to the Q. 19 stroke, the chances of her having a stroke 20 increase without antibiotics; is that correct? 21 Does that make sense to you, Doctor? 22 No, it doesn't really because the 23 Α. chances of her having a stroke without 24 antibiotics are increased all the way through. 25

Zola

I'm not sure what the antibiotics have to do 1 with it one way or the other. In fact, I just 2 don't understand your question. Let's start 3 4 aqain. She would have a better chance not Ο. 5 having the stroke on the 22nd as opposed to the 6 24th if antibiotics were given, correct? 7 8 Α. Yes. You just can't quantify that amount; 9 Ο. 10 is that right? No, I just can't -- yes, that's true Ά. 11 in the sense that I can't quantify it at more 12 than 50 percent likelihood of them preventing 13 the stroke after approximately the 22nd of 14 February. 15 You can't give us -- regardless of 16 Q. whether it's 50 percent or not, you can't give 17 us a percentage at all? 18 No, because it's less than Α. 19 50 percent and then it just keeps diminishing 20 the closer and closer you get to the stroke. 21 That is, the likelihood of them preventing a 22 stroke with antibiotics is less than 50 percent 23 after approximately February 22nd and that 24 likelihood of preventing a stroke diminishes 25

Zola

every day, every moment, every hour after the 1 22nd as you approach the 26th of February. 2 Q. I appreciate that and I just -- so 3 you can't say what the percentage chance would 4 be on the 24th versus the 25th versus the 5 evening of the 25th? 6 7 MR. MISHKIND: Objection. That's all I want to know. 8 Q. MR. MISHKIND: Objection, asked and 9 answered. 10 Go ahead. 11 I -- yes, I believe the answer to 12 Α. 13 that is yes. MR. MISHKIND: That's it. Thank 14 you, Doctor. 15 Doctor will read and please extend 16 the 7 day to 28 days for signature all 17 18 counsel. (Time noted: 2:15 p.m.) 19 20 21 22 23 24 25

Zola

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1	
2	ACKNOWLEDGMENT
3	
.4	STATE OF NEW YORK)
5	COUNTY OF)
6	
7	I, BENJAMIN E. ZOLA, MD, hereby
8	certify that I have read the transcript of my
9	testimony taken under oath in my deposition of
10	June 4, 2003; that the transcript is a true,
11	complete and correct record of my testimony,
12	and that the answers on the record as given by
13	me are true and correct.
14	
15	BENJAMIN E. ZOLA, MD
16	
17	
18	Signed and subscribed to before me
19	this day of, 2003
20	
21	Notary Public, State of New York
22	
23	
24	
25	

----- I N D E X -----WITNESS EXAMINATION BY PAGE BENJAMIN E. ZOLA, MD MS. HARRIS 5, 150 . 3 MS. MOODY MR. MOSS MR. DZENITIS 145 . 6 --- EXHIBITS ------FOR I.D. ZOLA 1 CV 2 Dr. Zola's notes

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1	
2	CERTIFICATE
3	
4	STATE OF New York) :ss
5	COUNTY OF Richmond)
6	
7	I, RITA M. PERSICHETTY, a Notary
8	Public within and for the State of New York, do
9	hereby certify:
10	That BENJAMIN E. ZOLA, MD, the
	witness whose deposition is hereinbefore set
12	forth, was duly sworn by me and that such
13	deposition is a true record of the testimony
14	given by such witness.
15	I further certify that I am not
16	related to any of the parties to this action by
17	blood or marriage; and that I am in no way
18	interested in the outcome of this matter.
19	IN WITNESS WHEREOF, I have hereunto
20	set my hand this 16th day of June, 2003.
21	
22	Rita Considering
23	
24	
25	

Concordance Report		16th [1]	2/7/99 [2]	
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153 1 2 ACKNOWLEDGMENT 3 4 STATE OF NEW YORK :SS 5 COUNTY OF MANHAMAN 6 7 I, BENJAMIN E. ZOLA, MD, hereby certify that I have read the transcript of my 8 9 testimony taken under oath in my deposition of June 4, 2003; that the transcript is a true, 10 11 complete and correct record of my testimony, 12 and that the answers on the record as given by 13 me are true and correct. 14 15 BENJAMIN E. ZOLÁ, MD 16 17 Signed and subscribed to before me 18 19 2003 day of 20 21 State C 0 New 22 DAYANARA HERNANDEZ Notary Public, State of New York No. 01HE6088148 23 Qualified in Bronx County Commission Expired March 3, 2007 24 25

ERRATA SHEET *** * * * ELLEN GRAUER COURT REPORTING 1 133 East 58th Street, Suite 1201 NEW YORK, NEW YORK 10022 2 212-750-6434 3 NAME OF CASE: 4 DATE OF DEPOSITION: 5 NAME OF WITNESS: ТО FROM PAGE LINE 6 IMAGE EMERGENCY 600 2 7 73 ${}_{i}O$ bloodspream Bloodstream 8 80 S Theymatic orde hematocret 9 108 18 Shot (947 10 35 22 drapping will be afferential dray most s lest 11 pust include, with high likelihood 12 13 14 15 16 17 18 19 20 21 Subscribed and sworn before 22 me day of 2003. S 1u 23 24 My Commission Expires: Ρı а DAYANAPA HERNANDEZ 25 No. 01HE6088148 Qualified in Bronx County Commission Expires March 3, 2007