Dr.	J. M. Koch 54 5. 8 10	Conden	ise	
1	THE STATE OF OHIO,)	Page 1		Page 3
) SS: COUNTY OF CUYAROGA.		1	JAMES MICHAEL KOCH,
3			2	being first duly sworn, was examined and
4	IN THE COURT OF COMMON PLEAS		3	testified as follows:
5			4	000
	MARGARET PEACOCK, Administratrix of the)		5	DIRECT EXAMINATION
7	Estate of LARRY PEACOCK , Deceased,			BY MS. SPERANDO:
8	Plaintiff ,) Case No.) 297578			Q. Doctor, could you state your full name for the
	vs.)		8	record, please.
9	UNIVERSITY HOSPITALS OF CLEVELAND, et al.,)		9	A. James Michael Koch.
10	Defendants.		10	Q. What is your profession?
1	- 0 -		11	A. I am acardiologist.
2			12	Q. Doctor, some preliminaries before we start.
3	Deposition of JAM2S MICHAEL KOCH	-		My name is Maria Sperando. This is John Martin. We
4	Wednesday, April 30, 1997			represent the plaintiff in this case.
5	000		15	We will be asking you some questions. If at
6				any time you don't understand a question that I ask,
7	The deposition of JAMES MICHAEL KOCH, called			can we have an agreement that you will tell me, and
8	for cross-examination by the Plaintiff under the			this way I can rephrase it in a way that you will
9	Ohio Rules or Civil Procedure, taken before me,			understand it?
'0	Priscilla A. Hefner, Notary Public in and for the			
1	state of Ohio, pursuant to agreement, at the offices			A. Okay.
22	of Jacobson, Maynard, Tuschman 6 Kalur, 1001			Q. If at any time you need to refer to any of the
B	Lakeside Avenue, suite 1600, Cleveland, Ohio 44114,			records, I would ask that you do that, rather than
14	commencing at 12:15 p.m., the day and date above set		23	guess; is that fair?
25	forth.			A. Okay.
			25	Q. And you need to verbalize your answers,
		Page 2		Page 4
1	APPEARANCES:		1	because it is hard for her to take down "uh-huh"
2	On behalf of the Plaintiff:		2	"uh-uh" c a nod or shake of the head.
3	MARIA P. SPERANDO, ESQ. Gary, williams, Parenti, Finney, Levis,		3	A. I will do my best.
4	McManus, Watson C Sperando P.O. Box 3390			Q. All right. Number one, sir, have you had an
5	Fort Pierce, Florida 34948-3390 (561) 464-2352			opportunity to read Doctor Herskowitz's report?
6	JOHN W. MARTIN, ESQ.			A. Yes, I have.
7	John W. Martin, Company, L.P.A. 800 Rockefeller Building			Q. I have a copy of your report. And I would
8	614 superior Avenue NW 44113 Cleveland, Ohio 44113			like to know as a result of having read Doctor
9	(216) 771-3303		0 9	Herskowitz's report whether you would like to make
10	On behalf of the Defendants:		-	
11	SIEVEN HUPP, ESQ.	1	10 1 T	any changes, amendments, additions to your report. MR. HUPP: objection. I think
12	JOHN SIMON, ESQ. ANNA MOORE CARULAS, ESQ.		1, I	5
13	Jacobson, Maynard, Tuschman 6 Kalur 1001 Lakeside Avenue, Suite 1600		12	it is overbroad. But, go ahead.
14	Cleveland, Ohio 44114–1192 (216) 736–8600		13	THE WITNESS: I hadn't considered
15			14	that. I did not review my report in light of
16		~	15	his report.
17			16	BY MS. SPERANDO:
18			17	Q. Having read his report, do you have any
19		tion a	18	additional opinions or changes in your own opinions
20			19	as a result of having read his report?
		1	20	A. No. I don't think so.
.				
			21	Q, Ten me very unenv what diecisely you have
22			21 22	Q. Tell me very briefly what precisely you have read in this case in order to have formed an
2: 22 23			22	read in this case in order to have formed an
22			22 :23	read in this case in order to have formed an opinion.
22 23			22 23 24	read in this case in order to have formed an

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	1	Doctor Warshall, I think. I read the depositions of	1	A. Not specifically; in other words, I didn't
	2	Doctor Biblo, Doctor Boulware. I read the medical	2	look up something to make this opinion. In fact, at
	3	record; that is, the in-patient admission from 5/8,	3	the time I wrote this, I don't thirk I looked at
) .	4	I think it was, and also the emergency room records	4	anything. I do a fair bit of reading on all this
	5	from both the admission and the subsequent admission	ı 5	sort of thing. So, I am well read in that area.
	6	to Meridia. And I read the autopsy.	6	But, I can't tell you that I looked specifically for
	7	Q. Anything else, sir?	7	this case.
	8	A. I think that's all.	8	Q. Do you have an area of specialty in
	9	Q. Is it fair to say then, sir, that you have not	9	cardiology, doctor?
	10	read Doctor Boulware's records?	10	A. I am an interventional cardiologist. But, I
	11	A. Oh, I am sorry. I read his office records.	11	am also the director of cardiac rehabilitation at
	12	Yes.	12	Saint Vincent Charity Hospital. And I am also the
	13	Q. Do you have a CV? Have we been provided With	13	head of the medical quality assurance committee.
	14	a CV?	14	So, those are the things that I have special
	15	MR. HUPP: Yes, we do. Off	15	interest in now. But, interventional cardiology
	16	therecord.	16	would be my – technically, my subspecialty.
	17		17	Q. I take it you are board certified in
	18	Thereupon, a discussion was	18	
	19	had off the record.	19	A. Yes.
	20	000	20	Q. When did you become board certified?
	21	BY MS. SPERANDO:	21	A. 1991.
	22	Q. In your report dated December 20,1996, you	22	Q. Did you pass the exam on the first try?
	23	say on the second page in the fourth full paragraph	23	
	24	that Mr. Peacock was subsequently seen in follow-up	24	Q. So, you are an interventional cardiologist.
	25	office visits with Doctor Boulware. And then you	25	Howdoyoudefine that?
)		Page	6	Page 8
1	1	say, well, "I don't have any records of these		A. An interventional cardiologist is a
		visits"; is that right?		cardiologist who does general clinical cardiology,
	1	A. At the time I wrote this, that's correct.	3	but also has the training and the skills and the
	1	Q. So, is it fair to say, then, at the time you	4	expertise, I should say, to intervene; that is, to
	5	formed an opinion in this case you had not reviewed	1	mechanically fix or treat coronary <i>artery</i> disease.
	6	Doctor Boulware's office Visits; is that right?	6	That means interventions including placing stents or
	7	A. That's fair.	7	inflating balloons in the coronary arteries, that
	8	Q. I take it you subsequently have reviewed	8	sort of thing, to relieve coronary artery disease.
	9	them.	9	Q. So, what is the type of cardiologist that you
	10	A. Yes. I can't tell you a date exactly, only	10	are not – if you understand what I am saying –
	11	that it was subsequent to December 20. It was	11	interventionist versus what?
	12	before I read Doctor Herskowitz's report, so it	12	A. Versus noninvasive, maybe. Probably the
	12	would be between December 20 and February 13.	12	biggest distinction in cardiology is invasive versus
	13	Q. You have not reviewed the slides in this case,	13	noninvasive. Noninvasive cardiologists simply don't
	1	have you?	14	do anything that is invasive, nothing like cardiac
	15	A. No.	116	cath or electrophysiology or anything else that
	16			would imply that you place some device in the body.
	17	Q. And you have not reviewed the cath itself or	17	
	18	any of the other tests that were taken, just the	18	On the other hand, I do noninvasive
	19	reports?	19	cardiology, also. I read echocardiograms. I do
	20	A. Correct. I didn't see the hard copy, just the	20	stress testing. I treat hypertension and other
2	1	reports.	21	problems like that
	22	Q. Have you referred to any sources other than	22	Q. What are the invasive techniques which you do?
βł.	23	those that we have discussed, such as articles,	23	A. Cardiocatheterization, intervascular
	24	textbooks, treatises, in support of your opinion	124	ultrasound, percutaneous transluminal coronar
	25	here today?	25	angioplasty PTCA placement of stents,
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	1 directional atherectomy. I also do transesophag	-	osed. I was never asked for anything. And
	2 echocardiography, which is a semi-invasive thin	ē	bly dropped. So, I am not one hundred
ì	3 But, also, noninvasives do that.	3 percent cer	•
1	4 Q. When did you graduate from medical school	ol? 4 Q. Have a	ny claims been made against you or have
	5 A. 1985.	5 you receive	ed any letters with regard to dissatisfied
	6 Q. From which medical school?	6 patients?	
	7 A. University of Cincinnati.	7 A. No.	
	8 Q. Where did you do your residency?	8 MR. HU	PP: objection.
	9 A. At the Cleveland Clinic Foundation here.	9 BY MS. SPE	ERANDO:
	0 Q. Do you have any advanced training after the		your first deposition?
	1 residency?		nis is my second deposition.
	2 A. Yes. In 1988, I did a four-year fellowship a		vas the first deposition involving?
	3 Deaconess Hospital, Harvard Medical School in		st deposition was involving the case of
	4 Boston.	 Resident and a state of the second state of the secon	who presented to an emergency room with
	5 Q. And you finished that program in 19 –	5 chest pain.	
	6 A. 1992. And then I was a clinical instructor		ou acting as an expert in that?
	7 medicine at Harvard Medical School before con		
	8 Cleveland to be in private practice.		were you testifying on behalf of?
	9 Q. And how long have you been in private		alf of the defendant.
	:0 practice?		as the lawyer in that case?
	1 A. It will be five years in August of this year.		•
	2 Q. Have you ever been sued?		fendant.
	3 MR. HUFP: objection.	23 A. The de	fendant? I guess it was Steve.
	24 THE WITNESS: Ever been named in	24 MR. HU	(autor)
	25 a suit? I have been named in a suit., but	25 THE WI	ITNESS: Steven Hupp, for
		Page 10	Page 12
7	1 dropped.	1 thereco	
	2 BY MS. SPERANDO:	2 BY MS. SPE	
	3 Q. And how many times have you been named		have a copy of that deposition
	4 suit?	4 transcript	
	5 A. Once.		have it with me. I could probably
	6 Q. What was that about?	6 produce or	
	7 A. It was a gentleman who came in with an		Did you testify at trial?
	8 emergency, an acute myocardial infarction. W		
	9 treated him aggressively, attempted to open up		1 know how Mr. Hupp came to know of you?
	10 right coronary artery. That failed. And he end		id I get to –
	1 up going to bypass surgery, did quite well	11 MR. HU	
	12 congratulated us on the 6:00 news – but, then	12 whatev	
	13 subsequently had some problems with his right		ITNESS: I don't remember,
	4 extremity. It's kind of a long story.		onest with you. I don't remember.
	15 He had a balloon pump in the right leg that		
	16 caused some ischemia in <i>the</i> right leg. His righ		ou been retained by any other attorneys
	17 leg didn't heal properly. And he sued us about		Mr. Hupp?
	18 year later.		for expert testimony, you mean?
	19 Q. What were the allegations of negligence ma		edical malpractice case.
	20 against you?	20 A. Yes.	
	21 A. I can't tell you specifically, since I was		many other cases have you been
	22 never – I received a copy of the lawsuit.		s opposed to giving testimony?
	23 Actually, I never actually technically received		thers besides the two that we mentioned,
	24 copy. I never even got it by certified mail. I v		the prior deposition plus two others.
	25 told about it. I never met with anybody. I was	s 25 Q. Were y	you retained by the defense attorney or
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	Ur. J. M. Koch	Condense	It Peacock V. Univ. Hospitals
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	 the plaintiff's attorney in those cases? A. Defense attorneys, both. 		relay that information to your attorney. A. If I can find it, I will.
<u> </u>	3 Q. And who were the defense attorneys?		Q. Are there any cardiology textbooks which you
ARA	4 A. One was John Jackson. And the other is Susa	an 4	find to be authoritative?
)	5 Massey, M-a-s-s-c-y.	5	MR. HUPP: objection.
- MERGERA	6 Q. Does either of those attorneys work for this	6	THE WITNESS: Well, I certainly
	7 firm?	7	read cardiology texts. And I think that the
	8 A. John Jackson does. I don't know who Susan	8	information is reliable. But, they are all
	9 Massey works for.	9	equally reliable, I should say.
	10 Q. Was your opinion With regard to Mr. Jackson		BY MS. S P E W :
	11 case that the defendant doctor did not fall below		Q. Which are the cardiology texts on which you
	12 the standard of care?		rely?
	13 A. Yes.		A. I own a Braunwald's, a Hurst's, a text by Kim
	14 Q. And with regard to Ms. Massey's case, did yo		Eagle. I own a couple of texts that I authored
	15 advise her that you believe that the defendant	:5	chapters in Bernard Gersh on Acute Myocardial
	16 doctor did not fall below the standard of care?	16	Infarction. I own some cardiology texts on laser
	17 A. There was not a doctor that was being sued in		cardiology. I mean, it is almost too numerous to
	18 this case.	18	count. 1 have a fairly big library of cardiology
	19 Q. Who was it?	19	texts.
	20 A. It was nursing personnel.	20	Q. That brings me to my next question, doctor.
	21 Q. And did you advise Ms. Massey that the nurs	-	The publications – your publications – do any of
	22 personnel did not fall below the standard of care?		them involve any of <i>the</i> topics we are going to be
	23 A. Correct.	23	discussing today with regard to your opinion?
	24 Q. Have you ever been retained by a plaintiff's	24	A. In a peripheral sense they do. I authored a
	25 attorney at all?	25	chapter or was second author of a chapter on
	 A statement as a final sector of the sector o	Page 14	Page 16
E 9	1 A. No.		triggers of myocardial infarction in Gersh's Text on
-	2 Q. Have you ever been retained by a defense		Acute Myocardial Infarction.
	3 attorney where you have advised the defense atto	-	Q. How do you spell that last name, please?
	4 that his or her client did, in fact , fall below the		A. G-e-r-s-h, Bernard Gersh.
	5 standard of care?		Q. And the name of the text is Acute Myocardial
	6 A. No; not retained. No. I take that back. I		Infarction?
	7 actually did I take that back in 1993. And		A. Yes.
	8 that would be another case . And I can't even		Q. Anything else?
	9 remember who the lawyer was, now that I'm thin	-	A. Not that I can really recall that has much to
	10 about it. So, that would be a fifth time that I	10	do with this.
	11 have actually reviewed charts for somebody.		Q. The one case in 1993 where you gave an opinion that the defendant doctor had fallen below the
	12 I had a brief review. And I don't even recall 13 who it was for. But, it was somebody who $-I$	3	standard of care, do you remember the facts of that
		le 14	
	14 advised them that it would be a good idea to settl 15 Q. And had you been retained by the defense		
	16 attorney?	15	
	17 A. Yes.		honest With you, I am not even <i>sure</i> to be honest
	18 Q. Do you have those records in your office or	18	with you, I would have to look back to even tell you
	19 somewhere that they are accessible to you so that		that I even billed anybody for that. But, I know I
I	20 you could tell me the name –	20	reviewed the case. And I would have to go look at
	21 A. I probably do, probably. Probably, the chief	21	the whole record. It wasn't something I really did
	22 A. 1 probably do, probably. Probably, the chief 22 of medicine had asked me to look at it for	22	very commonly. So, I would have to look back before
\$	23 somebody. And I suspect the files are at least in		I could give you a right answer.
	24 his office.	24	Q. In a patient who is experiencing sudden death,
	25 Q. So, doctor, I would ask that you do that and	25	can you tell me what is the significance of
	A CARACTER CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR C		Page 13 - Page 16

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		Page 17	Page 19
	1 trembling? And I will modify that. In a pati-	ent 1	BY MS. SPERANDO:
	2 who is experiencing sudden death as a result	of a 2	Q. Do you have any expertise in reading slides?
	3 cardiac problem, what is the significance of	3	A. No.
	4 trembling, if any?	4	Q. So, would it be fair, then, to say that as to
	5 A. First, are you using sudden death as a	5	Doctor Herskowitz's conclusions in paragraph four
	6 definition sudden death?	6	with regard to what the slides show, that you would
	7 Q. Yes.	7	not be able to comment on those conclusions?
	8 A. I wouldn't necessarily think there is any	8	A. I can't comment on them from the standpoint of
	9 specific significance to trembling.	9	
	10 Q. Having read Doctor Herskowitz's report,		or disagree with what the slides show. Some of the
	11 confining this question only to what he conclu	1	implications of the slides I think I could comment
			on in general, although –
			MS. SPERANDO: Excuse me. We are going to
	disagree with any of the findings enumeratedDoctor Herskowitz?	-	0 0
		14	have to take a break here. Sorry.
	15 MR. HUPP: what portion?	15	
	16 BY MS. SPERANDO:	16	1 ' 1
	\mathbb{D} Q. I believe before he gets to his conclusions		was read back by the court reporter.
	18 MR. HUPP: The medical and	18	
	19 autopsy findings section?	19	
	20 MS. SPERANDO: <i>Yes</i> ; the medical and au		Q. Okay. I am not talking about the
	21 findings, right , before he gets to any –	21	implications. I am talking about specifically what
	22 MR. HUPP: I am going to	22	he says the slides show. You cannot comment on
	23 object just for the record, because I think		
:	it is four and a half pages. But, go ahead	1	(1) And Addition of the Constant of the Consta
1 and 1	25 THE WITNESS: I was going to say,		Q. Doctor, with regard to your CV, which I have
		Page 18	Page 20
	1 he has a lot of — his whole report is		just been handed, I note that you were an instructor
	2 basically findings. I have not reviewed		in medicine at Harvard. Did you ever teach
	3 specifically the slides of which he makes	i	cardiology?
	4 big deal here. As far as everythingelse, I	1	A. Yes. To be an instructor of medicine meant to
	5 think without going through sentence by		be in that department in which you were employed.
	6 sentence there was generally statements ta	iken 6	And I was employed in the division of cardiology.
	7 from the records. So, as far as the	7	
	8 statements were <i>taken</i> from the records, t	•	A. Fellows; cardiac fellows. I also rounded with
	9 appeared to reflect what was in the record	ls. 9	residents you know, teaching rounds in the
	10 BY MS. SPERANDO:	10	
	11 Q. So, nothing stood out in your mind as not		25
	12 being in conformity with what you understoo	od the 12	
	13 facts to be as you read the report?	13	: 6
	14 MS. CARULAS: Just note my		A. Yes. It starts there. In 1990, you were
	15 objection. I think that is difficult for him	1	
	16 to do	16	You will note that I did a four-year cardiology
	17 MS. SPERANDO: If he read paragraph thr	ree 1.17	1
	18 and said, "Gee,I don't remember seeing t	that 18	1 5
	19 or I don't ægræ with that"	19	senior fellow in your third and fourth year, one of
	20 THE WITNESS: I can't honestly	20	1 0
all the	answer that for every statement in here,	:21	So, you teach first- and second-year fellows.
()	because I would have to look through the	m each 22	Q. And since you did your fellowship, have you
Constant of	23 individually. In general, what I would sa		done any teaching in an academic setting?
المحمليات ا	that I thought he accurately reflected what	•	
	25 happened.	:25	Saint Vincent Charity Hospital. We have a clinical
	L		Page 17 - Page 20
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		rotation in what we call the cardiac medical unit			Page 23 prescription for any of my patients who are enrolled
	2	with second-year residents and senior residents	from		in the program. And currently, I am one of the
-	3	Cleveland Clinic.		3	leading prescribers to this program. There are
βŊ.	4	Q. At this time, as a member of <i>the</i> clinical		4	programs all over the city. But, at this point in
999°	5	department review committee of the emergency	room at		time, I do have a large number of patients in
	6	Saint Vincent's, what does that consist of?			cardiac rehabilitation for whom I have specifically
	7	A. Each of those clinical department review		7	written the exercise prescription.
	8	committees - CDRC committees are quality	of the	8	Q. And, with regard to the other physicians, you
	9	assurance committees. And I am the chairman of medical committee. And basically up review a			do not make decisions for their patients?
	0 1	medical committee. And basically, we review a	uiy		A. In general, I don't.Q. Let's focus on this cardiac rehab program at
	1	quality problems or quality markers. We have certain statistical criteria that we		11	Saint Vincent's. What is the purpose of it? Why
	2 3	look for. JCAH, the Joint Commission on Ameri	con	13	would you send a of to them?
	3 4	Hospital Accreditation, requires you to have the		13 14	A Cardiac rehabilitation as it is defined in
	5	type of committees in the hospital to review any		15	this program is an exercise program which is
	6	number of clinical criteria to make sure that		16	specifically designed for patients who have coronary
	7	everything is basically reviewed and being done		17	artery disease. The primary go 1 f the 1 i
	8	properly.		18	secondary prevention for coronary artery disease.
	9	Q. And as the medical director of cardiac		19	The patients who are enrolled under my egis
	0	rehabilitation, what are your duties and function	ns	20	(phonetic) are those patients who have been shown to
	1	regarding that position?		21	have coronary artery disease, and generally, if you
	2	A. Basically, I am ultimately the person who is		22	look at guidelines and so on and so forth, fit
	3	responsible for anybody that exercises in the		23	specific diagnoses reflecting coronary artery
	:4	cardiac rehabilitation program. Although I may	not	24	disease. Therefore, you have a population of
\sim	5	be their attending physician while they are there	, I	25	patients who have undergone evaluation, some of whom
N			Page 22		Page 24
J	i	am the last line of responsibility to make sure th	nat	1	have undergone therapies and who are currently
	2	they are exercising safely and properly.		2	undergoing therapies, who are now enrolled in
	3	Q. And as to, "the last line of responsibility,"		3	cardiac rehabilitation as secondary prevention to
		if you can be more definitive for me, what does	that		make sure that coronary artery disease does not
	5	mean?			clinically – I should say to reduce the risk that
	6	A. In other words, cardiac rehabilitation is		6	coronary artery disease has for them down the road.
5	7	ordered as a prescription by an attending	lan up	7	Q. And how does this cardiac rehabilitation
	8	physician. Therefore, that attending physician is	1.225		program do that?
	9	technically responsible to clear a patient, to brin	SNT	9	A. Well, there are three phases. Phase one is
	0	them in, to give the proper diagnosis, before the		10	what is known as in-hospital rehabilitation. It
	1	patient is brought to cardiac rehab.		11	includes exercise guidelines. It includes education. It includes a certain amount of even
	2	If a patient is in cardiac rehabilitation,	ham	12	dietary and other recommendations. But, it is
	3	though, and experiences any sort of trouble or the are questions as to what would be the right thing.		13	basically done in the hospital.
	4	for them to be doing, and the attending physicia		14	Phase two cardiac rehabilitation is really the
	5	not either available or hasn't given us adequate		15	program that we are involved in - that I am
	7	documentation, then it would be up to me to ma	ke 🚽	17	involved in as a medical director. That is that
	:8	sure that I review that patient's case and ascerta	Serence Constant	18	once a patient leaves the hospital, they are given
	.0	whether exercise is appropriate and, generally,		19	an exercise prescription, which is designed to help
	20	whether the program is appropriate for that patie	ent.	20	reduce the risk of further clinical problems due to
	21	Q. But, you do not make the initial decision as		21	coronary artery disease.
	22	to whether the patient will be in the program or		22	There is also phase three of the program,
	23	what type of exercise the patient will be allowed		23	
	24	do?		24	Phase two is a program in which we monitor
	25	A. I do make the initial decision in the exercise	;	25	cardiac rhythms during exercise, in which we check
l				_	Page 21 - Page 24

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	I	blood pressure before, during, and after exercise.	1	same.
	2	In other words, there is a fairly heavy clinical	2	Q. Aretheywritten?
	3	involvement of special nurses in the program to make	3	A. Oh, yes. I don't have a copy of those, but,
ł	4	sure the patients are monitored.	4	yes, they are written down.
	5	Phase three is an unmonitored program.	5	Q. Do you have access to those guidelines?
	6	Q. What is phase three about, then?	6	MR, HUPP: objection.
	7	A. Phase <i>three</i> is simply an exercise program	7	THEWITNESS: . I suspect I could
	8	without the monitoring.	8	get them. The clinical director of cardiac
	9	Q. That they do at home or wherever?	9	rehabilitation certainly has to fulfill those
	.10	A. Well, you can do it at home. But, phase three	10	guidelines in the sense that that's how they
		is technically - it is called phase three, because	11	enroll patients and get paid. So, I am sure
	1 .	it is done in a hospital setting, so the patients	12	the guidelines are available.
	13	come back to the same program, come back to the same	13	BY MS. SPERANDO:
	14	equipment and everything. They are simply not	14	Q. And does Saint Vincent's have its own
	15	monitored anymore. And I Li differential is	15	guidelines separate and apart from Medicaid
	16	probably actually defined by Medicare. Medicare		guidelines?
	17	pays for phase two, and they don't pay for phase	1	A. We certainly have policies for rehab. But,
	18	three. That is really probably the biggest	18	they are not guidelines that really specifically are
	19	distinction to a patient.	19	designed to figure out who can enroll.
	:20	Q. When a patient is not monitored, there are,	20	Q. So, the guidelines by which Saint Vincent
	:21	however, health care providers, such as trained	21	abides or to which it adheres are the guidelines
	22	nurses, available, so that if they should have a	22	promulgated by Medicaid?
	23	cardiac event of some sort, there is immediate	1	A. Pretty much – Medicare.
	24	assistance available?	24	Q. Medicare.
		A. Right.	1	A. Most of our patients are Medicare, not
3				Page 28
ļ	١.	Page 26 Q. Can you tell me, given everything that you	1	Medicaid, although Medicaid has similar guidelines.
		know about Mr. Peacock, did he qualify as someone		You could pick any insurance company or Medicare and
	2	who would have benefited from or who was eligible	2	Medicaid, and they have certain guidelines, certain
		for this cardiac rehabilitation program at Saint	4	diagnoses, criteria, and so on and so forth.
	4	Vincent's?	1	Q. So, it is your testimony that Mr. Peacock's
	5		1	cardiac condition and status as known after the
	6	MR. HUPP: YOU are saying in retrospect or at what time?		stress test and his admission to the hospital would
	7	BY MS. SPERANDO:	8	not have qualified him for admission to the cardiac
	8		0	rehabilitation program pursuant to the guidelines by
	9	Q. All right. After the stress test, immediately after the stress test and	10	which you operate at Saint Vincent's?
	10	THE WITNESS: would he have	10 11	A. Correct. I don't thirk he would have
	11		11	fulfilled the guidelines by which we enroll patients
	12	qualified for cardiac rehab?	12	- · ·
	13	MS. CARULAS: Note my objection.	13	in phase two cardiac rehab.
	14 15	THE WITNESS: IS that what you masking?	14	Q. Maybe you <i>can</i> tell me what the guidelines are and how he would not have fit in.
		-	15	
	16	MS. SPERANDO: Yes.	1	A. In general, it is pretty simple. Patients fit
	17	THE WITNESS: I don't think I	17	into the guidelines either Medicare has
	18	could have gotten Mr. Peacock into cardiac	18	specifically three diagnoses. And that's really how
	19	rehab phase two as we define it , and	19	I hate to hang my hat on Medicare, but that's
	20	particularly as Medicare guidelines, insurance	20	who typically take the lead on this issue. Medicare
	21	guidelines define it for us.	21	guidelines state that one of three diagnoses will
	22	BY MS. SPERANDO:	22	qualify a patient for cardiac rehabilitation. And,
	23	Q. Are these guidelines by you said Medicaid?	23	in general, we require documentation of exercise
	24	A. Medicare, Medicaid – any social programs, any	24	stress testing to put the patient into rehab, Those
	25	insurance programs – they all feel pretty much the	25	three diagnoses are post bypass surgery, chronic

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	- 	age 29	Page 3i
	1 stable angina		ne put it this way: Was
	2 Q. Post bypass surgery, which knocks Mr. Peace		all that he had suffered a
~,	3 out of that?	3 non-Q wave myocard	
	4 A. Right. Chronic stable angina and myocardial	4 A. No.	
Sec. 1	5 infarction.	5 Q. None at all, nothing	ng that would even suggest
	6 Q. So, if someone has left ventricular	6 it?	
	7 hypertrophy and coronary artery disease but no	7 A. No. I think that h	is presentation – let me
	8 documented evidence of a myocardial infarction,	they 8 go specifically through	h those. Electrocardiogram is
	9 are not eligible for the program?		vords, he has left ventricular
	0 A. That's right.	· · · · · · · · · · · · · · · · · · ·	, if I recall correctly. And
	1 Q. That is eligible pursuant to where Medicare		at finding on an EKG, certainly,
	2 would pay; is that right?		lities which are equivocal. So,
	3 A. And most insurance companies follow the lea		F. In that sense, that doesn't
	4 of Medicare. Yes.	Statistical Control of Control and Control and Control and Control of Cont	evidence for a non-Q MI.
	5 Q. Obviously, however, if a person wanted to pa		finitions straight. You keep
	6 himself –	- 0	itive." And we here in the
	7 A. If a patient wanted to pay, then they would be	ę	I understand you guys in
	8 welcome to enroll in the program. Unfortunately		arely talk about anything that
	9 the cost is prohibitive.	19 is definitive; am I rig	• • • •
	0 Q. With regard to the evidence of a what is it	20 A. Right.	
	1 called a sub-Q myocardial infarction?	ę	n I ask you a question, I am
	2 A. Non-Q.		a reasonable degree of medical
	3 Q. Does that count in terms of putting a person	-	e you have heard that phrase.
	4 in the category of someone who has suffered an I	-	
-	5 MR. HUPP: objection.		l percent likelihood. When I
<u></u>		age 30	Page 32
)	1 THE WITNESS: If I could make a	-	stent with, "that does not
	2 diagnosis of a non-Q wave myocardial	-	n fact , does not mean "equal
	3 infarction, they could possibly be enrolled in	3 to."	
	4 cardiac rehabilitation phase two.	4 A. Okay-	
	5 BY MS. SPERANDO:	\ <u>-</u>	ery specifically is: Was
	6 Q. Now, let me then focus you in on that. Do yo	-	at was consistent with a non-Q
	7 believe that Mr. Peacock suffered a non-Q wave	7 wave myocardial infa	-
	8 myocardial infarction?	8 MR. HUPP:	objection. That
	9 A. No.	9 has been asked an	5
	0 Q. Tellmewhynot.	0 THE WITNESS:	Again, a non-Q wave
	1 A. I think Mr. Peacock's presentation was of		tion does have a definition.
	2 syncope, which admitted him to the hospital w		evaluate a patient. You
	3 accompanied by a number of clinical findings. A		had a myocardial
	4 certainly, a suspicion for cardiac involvement wa		e to the muscular tissue, the
	5 raised.	5 heart tissue, and t	
	6 However, there is no definitive data that says	 A second s	Il the data in front of you
	7 he had a myocardial infarction. He had a clearcu	 The part of the p	
	8 stress test that showed, frankly, he didn't. And	-	you don't have
	9 that's a very good physiologic way to look for th		hicevidence of a myocardial
	0 Q. Well, let's put the stress test to one side.		the away, EKG by definition
	1 And let's talk about the findings, specifically, the		esn't give any supporting
	¹² enzyme findings, the EKG findings, and the	evidence, so –	Sit give any supporting
$\mathbf{F} \in \mathcal{M}$	¹² enzyme midnigs, de EKO midnigs, and the ¹³ echocardiogram findings.	3 BY MS. SPERANDO:	
			t a time. The EKGa
	^{!4} A. Okay.^{!5} Q. With regard to those findings, was there any	-	non-Q wave myocardial
			· ·
			Page 29 - Page 32

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1 infarction.	1 definition o	f a myocardial infarction. It doesn't
2 Q. Theenzymes.	2 mean so,	it means there is tissue death. There
3 A. The enzymes, as I recall, were elevated into a	3 is cell death	, but no electrocardiographic evidence
4 range of 400 or so.	4 of that cell	death.
5 Q. 426,460, and 445.	5 Q. So, by d	efinition, then, with a non-Q wave MI,
6 A. Okay. Are you working from Doctor	6 you wouldr	't expect to see any EKG findings?
7 Herskowitz's –	7 A. I would	n't expect – that's right.
8 Q. I am indeed.	8 Q. But, a n	on-Q wave MI basically means there has
9 A. I will assume that that data is accurate.	9 been heart 1	nuscle death?
10 Those enzymes creatine phosphokinase enzymes	are 10 A. Right.	and and the line -
11 elevated in all three cases. Interestingly enough,	11 Q, Now, de	escribe the significance of elevated CPK
12 they are basically all equally elevated. In other	12 enzymes in	terms of myocardial infarction.
13 words, there is no rise and fall in those numbers.	13 A. CPK is a	n enzyme that is found in every muscle
14 There is nothing about those numbers that tells me		Any muscle that is damaged will
15 clinically that that is consistent with an acute	-	the bloodstream an elevation of CPK
16 myocardial infarction, non-Q wave or Q wave.	16 here are re	ally three isoenzymes if you will, i
17 The MB fraction is two plus. My understanding		y, bands of ti kinase t are
18 and, again, this is different in everyone's	1	n the lab test that help or tell what
19 system. We don't use a two plus MB system at Sai	nt 19 kind f mu	scle ¿ lat age l. There is an MM band, a
20 Vincent's Charity Hospital. We didn't use it at the	20 BB band, ar	id an MB band.
21 Clinic. We didn't use it at Deaconess Hospital.	21 MM tecl	mically v 3 3 1 3 to be 1 for
22 However, at University Hospitals, they use a two	22 muscle, B	bri although a BB d s not
23 plus system.	23 rily	li ati fa stroke. So, fere are
24 The two plus – again, all being equal –	24 combinatio	ns of these things the idea being that
25 interestingly enough, tells you that there is no	25 the MB frac	tion is reasonably specific for he
Pag 1 basic rise and fall or change in these enzymes whic 2 would give you a hint that this is actually		Page 3 hage. look for an elevation of CPK, but you
3 consistent with myocardial infarction. Those are	3 also look to	tell whether that CPK came from the
4 equivocal. Those are equivocal under any	4 heart. And	certainly, where there is a high level
5 circumstances. They don't tell you that there is	5 of MB, you	would say it came from the heart.
6 cell tissue death. In a patient who has been	6 However, le	ow levels of MB can accompany any muscle
7 exercising as hard as Mr. Peacock exercised - he	7 damage. T	his is a low level of MB. So, it doesn't
8 was playing tennis - I wouldn't be surprised to see		cifically that this is heart muscle
9 CPK elevation, and I wouldn't be surprised to see M	8	
10 fraction.		hat is the normal range of a CPK, just
11 To define a non-Q wave myocardial infarction,	11 a CPK enzy	me which you would expect to see if there
12 I would have liked to see much more significant M		o muscle damage?
¹³ fractions in those enzymes, particularly given his		cle damage at all? Somebody who is
14 level of exercise.	14 sedentaryc	
¹⁵ Q. Distinguish for me what a non-Q wave	15 Q. Likemy	vself-sedentary.
16 myocardial infarction is versus your run of the mil		know what you've been doing today.
17 myocardial infarction.		lly, you would expect to see that less
18 A. Sure. I started to do that.	-	so. Labs are different.
Remember what I was saying about the	19 Q. Let's go	to this particular lab. I know labs
20 electrocardiogram? The electrocardiogram in term	-	-
21 of defining nyocarclial infarction relies on a Q	1	know their upper limit.
22 wave. A Q wave is a negative deflection of the		that, because I thick it's
23 electrocardiographic signal. A non-Q wave	23 important.	
24 myocardial infarction means that you look at the	24 A. Do we	have that?
25 electrocardiogram and see no electrocardiographic	25 O. Does at	hybody have the records for the
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	D1. J. MI. KOCH	Condenselt."	Peacock v. Univ. Hospitals
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	1 hospital?	- (words, trauma to the muscle, even
	2 A. Here is their normal range: Zero to 225.	2 Vigorous ex	ercise, can elevate the CPK. what you
	3 Q. So, zero to 225. So, then, you would agree	3 would like	to see <i>then</i> is, what does the MB band
A	4 with me that CPK's of 426, 460, and 445 are	4 specifically	tell you? And you base that on numbers
	5 elevated?		which case they say their number
1.0261.8	6 A. Yes. Those are elevated.		just sort of a generalized range greater
	7 Q. So, we know that there has been some muscl		and greater than three percent, which
	8 damage as a result of these elevated CPK's?		l. Whereas, four plus greater than 25
	9 A. Right.		l units – so, they have correctly
	10 Q. Now, further defining where this muscle dan		number to tell you that if it is greater
	11 has come from, we look to the band, the MB; is 1		rnational units, you know that you have
	12 right?		infarction. You know that you have
	13 A. Right.		h from the heart.
	14 Q. What is the normal for an MB?		have used their system, two plus,
	15 A. Their defined normal range is negative; in		tell you whether the enzymes are very
	16 other words, zero.		related to the heart , equivocally
	17 Q. And what would be considered, then, elevate		E heart , or clearly not related to the
	18 A. Anything over zero would be technically	18 heart.	Liter, of clearly not related to the
	19 elevated, by their laboratory.		nost you are willing to say is that
		i	n of two plus for the MB part of the
		1	K enzymes is equivocal with regard to
		1	re is heart muscle damage?
			vill go one step further to restate
			before in that the CK enzymes here also
		and the second	
			e in a pattern that would make you think
	1	Page 38	Page 40
C	1 activity. It is helpful where you have low levels	「「「「「「「」」」、「「」」、「「」」、「「」」、「「」」、「」、「」、「」、	vocardial infarction.
	2 of enzymes to tell whether you actually have lea		the pattern that would make you think
	3 from the heart. You would like to see at least so		vocardial infarction?
	4 absolute amount of enzyme. You would like to		ly, CK enzymes will peak in an 8- to
:	5 the fraction, number one, how much percent is t		iod and disappear in 24 hours. So, there
	6 fraction. And you would like to see the absolut		se and fall if it is due to the heart.
	7 amount.		hat has to do with the patency of the
	8 The definitions get hard. For instance, if		the vessels have complete blockage,
	9 someone gets hurt or has muscle damage or has	•	a little slower. If they are patent,
	10 trauma, and their CPK enzymes are grossly eleva		ually very rapid.
	11 the percentage of the MB fraction may not help y		rere these CPK's taken; do you know?
	12 tell whether it is the heart or not. By the same		admission, I know.
	13 token, in the low numbers, the percentage may r		
	14 help you much. That's where an absolute numb	5	at 22:00, then May 9 at 9:00 am., and
	15 international units would help you tell-whether	÷	00 p.m. And you can see that over the
	16 there is a myocardial infarction. And by	1 m ²	hat 20 hours, they basically are all the
	17 definition, most of the time, we hang our hat on	5m	which is a lot more consistent with
	18 absolute number of greater than 25 units - 25	18 generalized	muscle trauma, Vigorous exercise, that
	19 international units as being indicative of		g, particularly in a large individual.
	20 myocardial infarction.	Million and	e two plus, however, of the MB
100	21 So, in other words, there is an elevation	21 indicates th	at for whatever reason, the muscle
	22 here. But, again, you can see that with generaliz	zed 22 tissue that w	was damaged was the heart muscle
	23 muscle injury, vigorous exercise – weight lifter	Test and the second	ng pang na pang ng pang
1993	24 all the time anytime you check a weight lifter	's 24 A. No. An	y muscle can give you an elevation of
	25 CPK after a workout, it is going to be elevated.	25 MB. Any m	uscle damage can give you some elevation
		11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Page 37 - Page 40

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Γ			Page 41		Page 43
		of MB. So, what you want to distinguish, again,		1	A. Cardiac catheterization – they documented a
		number one, is it a high level of MB's; is there a		2	stenosis in the left circumflex artery, I believe,
		significant percentage of MB? And, number two			of about 80 percent. 1 don't have that cath
	4	is the pattern of that MB rise and fall? And he h	as	4	report. Let me just take a look here.
		neither of those to support heart attack.		5	By cardiac catheterization, they described the
		Q. Is it fair to say that when you get these		6	circumflex artery as abnormal, nondominant, with an
		findings, especially when they are in your opinio		7	80 percent stenosis in the distal circumflex artery.
	- 5365	equivocal, that you are supposed to plug them in	nto	8	Q. Is that the only vessel that was stenosed?
	9	the clinical picture?		9	A. It is the only vessel that actually has any
1	0	A. Absolutely these are plugged into the clinica	1		clinically significant stenosis. There is certainly
1	1	picture.		.11	irregularities as described, up to 40 percent in the
1	2	Q. So, plugging these findings into the clinical		112	right coronary artery posterolateral branch, here
1		picture, would it be fair to say that we have a		.13	(indicating).
1	4	gentleman who has a significant degree of left		:14	Q. So, those are the two arteries that we are
1	5	ventricular hypertrophy?		:15	talking about that are stenosed to any degree?
1	6	A. This doesn't have anything to do with left		116	A. It looks like, right – the distal circumflex
1	7	ventricular hypertrophy.		17	and the right posterolateral.
1	8	Q. No. They found out when they did all these		.18	Q. We also know that this is a man who has had
1	9	tests, plugging these figures into what they knew	v at	19	significant hypertension over a period of time.
2	:0	the time when they took the tests, that he had a		:20	A. Yes.
2		significant degree of left ventricular hypertrophy		21	Q. We also know that this is a man who has
2	2	A. Maybe I misunderstood your question. Cou	ld	22	end-organ disease as a result of his coronary <i>artery</i>
2	:3	you restate your question.		:23	disease, correct?
2	:4	Q. 1 mean, by history and by what you know at	oout	:24	MR. HUPP: In retrospect?
2	25	that particular individual, when you have findin	gs	:25	BY MS. SPERANDO:
Γ			Page 42		Page 44
	1	from the lab or from a radiograph, you need to p	olug	1	
	2	those findings into your clinical picture.		2	A. No; not at that time.
	3	A. Right.		3	Q. Did you read Doctor Boulware's deposition?
	4	Q. And what you know about that individual.		4	A. I did. But, you asked me if he had end-organ
	5	A. Right.		5	disease as a result of coronary artery disease. Do
	6	Q. So, we know about Mr. Peacock at that time	, as	6	you mean as a result of hypertension?
	7	a result of the tests that were taken, that he had	a	7	Q. Okay, Hypertension.
	8	significant degree of left ventricular hypertrophy	у,	8	A. Yes. He has end-organ disease as a result of
	9	correct?		9	hypertension.
	0	A. We know that, but not from this particular la	ab	IO	Q. We also know that this gentleman suffered a
	1	test.		11	syncopal episode while engaged in vigorous
		Q. 1 understand that. I am taking this			activity.
		information and plugging it into what other thin	0	-	A. Yes.
		that we know in order to make what are on their			Q. Do we have any other information that is
		equivocal findings - to give them more meaning	g.—		significant with regard to Mr. Peacock's clinical
		A. Right.			status as of the time that he is discharged from the
li		Q. So, we plug that into the fact that we know h	ne		hospital?
l		has a significant degree of left ventricular			A. We had a Holter monitor that was fairly
		hypertrophy.			unremarkable. We have an echocardiogram that
2		A. We know that from echocardiography.		20	describes, as you said, left ventricular
2	21	Q. And we also know that he has vessels that as	re	21	hypertrophy, and otherwise very good systolic
2	22	to some degree clogged.		22	function, no evidence of a segmental wall motion
2	23	A. He has evidence of coronary artery disease;		23	abnormality.
2		right.		24	Q. Plugging these CPK enzyme results and MB
2	25	Q. Tell me what that is.		25	results, which you say on their face axe equivocal,
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	into what we know about Mr. Peacock's clinic	an and the second se		Q. Because only when it is heart damage do the
	status the LVH, the stenosis of the arteries, th			enzymes go all the way up and all the way down in a
1225	significant hypertension over a period of time,	-		fairly defined pattern like that?
57255.	end-organ disease as the result of the hyperten	Contraction and the second		A. Right; exactly.
	and the syncopal episode while engaged in vig			Q. Fair to say, doctor, that when you have this
	activity within a reasonable degree of medic		-	left ventricular hypertrophy, that means in
	probability, does the CPK and MB results then			laypeople's terms, a thickening of the left
	more supportive of the fact that there was, in f	157. south 130		ventricle; is that right - the left side of the
	some myocardial damage or death of heart tiss		1000	heart; is that right?
	A. I would say, either standing alone or with a			A. Right.
	that other data, there is no evidence of myocar	dial		Q. And in this case Mr. Peacock's left ventricle
	infarction from those enzymes.			was approximately twice as thick as an ordinary
13	I would add one other thing to this; and the			person's heart – his left ventricle?
	is, you mentioned syncopal episode with vigor			A. I don't recall it was twice as thick.
	exercise, but also recalling that this gentleman			Q. Take a look at -
	no other symptoms prior to that and that is			A Yes. His posterior wall – again, your
17	important. He had no clinical syndrome prior		17	autopsy report will give you a better feel for
	this presentation.			that. Left ventricular or posterior wall thickening
19	Q. What are you talking about specifically?			by echo suggests that it is 16 millimeters, with
	A. I don't have any symptoms or signs of trou		20	their normal range 6 to 11. We actually use in my
21	prior to this.		21	lab 8 to 12. So, there is a little bit of difference there. A 16-millimeter thickness is a
22	Q. Were you aware of <i>the</i> fact that he was		22	
23	reported to have experienced dizziness immed	•		moderately thickened left ventricle wall.
24	prior to the episode?		24 25	Q. So, that would be about twice as thick the
25	A. I did see one note in there that somebody		ເວ -	range, you said, is 6 to 14?
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	documented dizziness, which is a very nonspe	×111C		A. No, up to 12 in my – but 11 in their lab.
	term in this setting. But, I also saw multiple			Q. 6 to 11?
	notes that stated that he was not really having			A. They are using 6 to 11.
	prior symptoms. What I am referring to actua			Q. So, if it is 16, would it not be fair to say
	even before this episode. This isn't a man wh			that it is approximately two times as large as it is
6	in complaining of anything that would sugges	st	6 7	supposed to be? MS. CARULAS: objection.
	coronary artery disease. Q. So, with regard to all of this evidence, then	n	8	THEWITNESS: You can't say that
8	it is your opinion within a reasonable degree of		。 9	it is supposed to be a particular thickness.
9	medical probability — that is, greater than 51	Second .	10	There is certainly a range there. And I don't
10	percent likelihood – that these elevated enzym		11	even know what this gentleman's baseline
11 12	indicate that he suffered muscle damage as a r	- COALANA COMPANY	12	thickness was. And in a heart like I
	of exercising; is that correct?		13	understand with his body habits and being a
13	A. In a layman's sense, yes, muscle damage,		13 14	relatively heavily muscled person, he may
14	meaning, yes, he must have worked awful har		14 15	naturally have had an upper limit of normal or
16	tennis or he may have had vigorous exercise v		16	even exceeded normal at baseline.
17	caused enzymes to be elevated. That's right.		10	But, it is clearly thickened. This is a
18	Q. You believe that, notwithstanding the fact		18	thickened heart, what I would call moderately
19	that he had been exercising at least 24 hours b		19	thickened. This is not a severely thickened
20	this last CPK was taken?		20	heart.
20 21	A. Well and that's part of the reason I		20	BY MS. S P E W .
22	interpret it this way – the fact that they stay s		22	Q. Can you tell me, sir, what was the degree of
22	elevated for that period without any other patt		23	hypertrophy on the first EKG that was taken by
24	that helps me indicate that it's the heart makes		24	Doctor Boulware in 1986?
25	think it is muscular.		25	A. EKG's don't give you a degree of hypertrophy.
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	 They infer with - actually, fairly insensitively, they infer left ventricular hypertrophy. But, that's a nonspecific finding, particularly in 1986, 	2 Q. H	t actually requires more blood. ow about more oxygen? Oxygen is what is ally the nourishment supplied by the blood; am
	4 when this gentleman was only 35 or 36 years old 5 It's almost impossible to use an electrocardiogram	. 4 I righ	에게 해야 한 방법에는 한 상품에서 National Contract 이 가슴이 있는 것을 가장하는 것이다. 이 가슴 이 가슴을 가슴을 가셨다.
	6 to define left ventricular hypertrophy in a7 35-year-old.	6 could	l say that. et's talk, then, about oxygen requirement.
	8 Q. You can only do that with an echo?	-	fair to say that if you have more muscle mass,
	9 A. Defining left ventricular hypertrophy is best 10 done by the echo. It's not the only way. It is	1	e form of thickened muscle mass, that it would re more oxygen in order to sustain it; is that
	11 best done with the echo if the patient is alive.	11 fair to	
	12 And the EKG evidence is nonspecific, and only		ou could theorize that. Yes.
	13 becomes somewhat applicable as the patient gets		/ell, theorize or not is that just
	14 older. So, in young individuals – I am sure if we		etical? es. You can't define that.
	15 checked your EKG it might very nicely have high16 voltage, because you are a young person. And we		am not asking basically to define it. As a
	16 voltage, because you are a young person. And we		osition, is it fair to say that the more heart
	18 were over 40 years old, we might be able to do th		le you have in the form of a thickened heart
	9 Q. So, before this echo was done in the hospital		ele, the more oxygen it would require to sustain
	0 there was no evidence of the degree of thickening		
	1 his left ventricle?		IR. HUPP: objection.
	2 MR. HUPP: objection.	:2 A	re you saying that is something that is
	3 THE WITNESS: He is a	:3 ac	cceptable in the medical community?
	4 36-year-old, who now comes in with an EKG,		S. SPERANDO:
	5 whose voltage who, by voltage criteria,	15 Q. CO	orrect.
		Page 50	Page 52
	1 would suggest left ventricular hypertrophy.	 A. S. S.	think it is probably generally acceptable.
	2 But, again, that is a relatively insensitive		nd would it be also fair to say that when you
	3 way to do it. It is certainly a definition.		stenosis of the distal left circumflex and the
	 4 It is certainly a clinical – a scenario 5 used. 	4 - wa 5 A. Y	s it <i>the</i> right coronary?
	5 used. 6 BY MS. SPERANDO:		hat – again, in layperson's terms – that
	7 Q. I am talking about the degree of the	-	eart is not getting – as a result of this
	8 A. You wouldn't be able to tell, no, particularly		osis or closing, that the heart is not getting
	<i>9</i> in a young person.		uch blood or oxygen as it would otherwise get if
	0 Q. So, in layperson's tern, then, this thickened		evessels were not closed?
ſ	1 left ventricle would require more blood to nouris	h 1 A.N	o. That's my point – is that a 70 percent
	2 it and provide oxygen to it in order to keep		osis might be considered flow limiting. Or 80
1	3 those –	-	ent; I am sorry. But, the 40 percent stenoses
4 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1	4 A. That's an interesting question. In terms of		d not be considered flow limiting stenoses.
	5 left ventricular hypertrophy, there are a number of		o, then just with regard to that one vessel,
	6 thoughts about oxygen requirements. A resting h		fair to say that the blood that the heart
	7 or an exercising heart always extracts one hundre8 percent of the available oxygen that it can		d normally receive from that one vessel is being ed as a result of the 80 percent stenosis?
:	9 extract. So, a hypertrophied heart or a		lo. It is not fair to say that, because the
	¹⁰ nonhypertrophied heart will extract oxygen with		is that you have there is a difference
. 1	1 same ability.	-	een anatomy and physiology here. Anatomy says
KA	2 Q. I am not asking that ability. I am asking		is an 80 percent blockage there. Physiology
	23 about requirement.		the question is whether it is getting enough
	A. The question is, how much blood does it	24 blood	
	25 actually require? It is almost impossible to say	25 Q. N	lo. I didn't ask you enough. I said as much
		I	Page 49 - Page 52

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		Page 53	Page 55
1	as it normally gets,	1	singles and doubles tennis – is the requirement of
2	2 MR, HUPP: Let him finish his	2	oxygen by the heart muscle increased?
3		3	A. Yes.
	4 THE WITNESS: My point is that it	4	Q. So, now, in a person such as Mi. Peacock,
5		won in 5	with, as you describe it, moderately severe left
			ventricular hypertrophy, and one vessel that is 80
6			
1	80 percent stenosis. It could get adequate	the l'	percent stenosed and limiting the blood supply, with
8	II J,	145	an increased requirement of oxygen during vigorous
9		9	activity, why would you say that that person is not
0		SC / 1.0	
1	A. Your heart extracts a maximum amount of	252 1	malignant arrhythmia or ischemia?
2	2 oxygen, even at rest. So, the idea is that it do	$\times s \setminus _{2}$	A. If you take any person with that description
3	3 receive more blood to do exercise, to perform	1. In \ .3	- left ventricular hypertrophy and an 80 percent
4	any heart in which there is a stenosis defined	by 4	stenosis of a vessel – and <i>ask</i> me are they at risk
.5	5 anatomy, there are other ways, number one, o	1 N N 1	for an event, the answer is yes. They are at risk.
6	5 than directly, to get flow through that in a for	. 78.	energin (2011) 2012 - Statesta Carlos and an anna an anna an anna an anna an anna an an
7	7 flow direction.	1 7	defined by the anatomy you just gave me. Do you see
8	• · · · · · •	. 8	
9		267 H	
	• • • • • • • • • • • • • • • • • • • •		
0		13	you say risk , that they are at risk , how would you defme the risk ?
2			A. Well, risk is defined prognostically. In
1	epicardial vessels. They sit on the surface of	the 23	other words, given set criteria or given set
	heart. Luckily, those are the ones that get	24	information, can I prognosticate to say is this
5	5 coronary artery disease , and not the true resis	stance !5	patient at risk for something? There is nothing
		Page 54	Page 5
1	vessels, or the vessels that actually supply block	ood 1	prognostic about an 80 percent stenosis in the left
2	2 to tissue.	2	circumflex coronary artery .
3	So, you are asking if a stenosis of 80 percent	cent 3	Q. I am not asking you –
4	is clearly going to limit flow to muscle to that	/ /	Q. Lam not asking you
5	• Is clearly going to mint now to muscle to un	1t 4	•••
			A. Okay.
6	5 area. I can't tell you that it is. And the	5	A. Okay. 5 Q. I am not asking you to - I can't quite think
6	5 area. I can't tell you that it is. And the 6 difference is between you what you see anato	omically 6	 A. Okay. Q. I am not asking you to - I can't quite think of the word right now. I am not asking you to
6	 area. I can't tell you that it is. And the difference is between you what you see anato on a cardiac catheterization and what you see 	omically 6	A. Okay. 5 Q. I am not asking you to - I can't quite think 5 of the word right now. I am not asking you to 6 divide or separate each of these things that we are
8	area. I can't tell you that it is. And the difference is between you what you see anato on a cardiac catheterization and what you see physiologically as that muscle performs and	omically 6 actually 8	 A. Okay. Q. I am not asking you to - I can't quite think of the word right now. I am not asking you to divide or separate each of these things that we are a talking about.
8 9	area. I can't tell you that it is. And the difference is between you what you see anato on a cardiac catheterization and what you see physiologically as that muscle performs and takes the blood.	omically 6 actually 8	 A. Okay. Q. I am not asking you to - I can't quite think of the word right now. I am not asking you to divide or separate each of these things that we are talking about. A. Iunderstand.
8 9 10	 area. I can't tell you that it is. And the difference is between you what you see anato on a cardiac catheterization and what you see physiologically as that muscle performs and takes the blood. Q. I am simply referring to that one vessel, 8 	omically 6 e 7 actually 8 9 80 10	 A. Okay. Q. I am not asking you to - I can't quite think of the word right now. I am not asking you to divide or separate each of these things that we are talking about. A. Iunderstand. Q. I am asking you to take this patient as an
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Ι	presentation and their symptoms and so on and so	1	mets, ten and a half minutes, both of which tell you
2	forth and then to prognosticate.	2	that this man is capable of fairly high level
3	Unfortunately, there is not anything	3	exercise, certainly about average or above average
4	prognostic about - there is nothing significantly	4	for his age and sex, and that having exercised to
5	prognostic or easily prognostic about a person with	5	that degree, his risk of an event from a cardiac -
6	left ventricular hypertrophy and 80 percent	6	or his risk of a cardiac event is over it depends
Ι	circumflex disease. If you take either of those	7	on whose data you believe - but, is over the next
8	criteria or both of them together, they each carry	8	four to five years actually excellent.
9	some risk, which is increased for those things. I	9	Q. What is the risk, doctor, if you can
10	think that is well recognized. People with left	10	quantify? Let me make it much more basic. Does it
11	ventricular hypertrophy do have an increased risk of	11	put the risk at zero?
12	sudden death. And people with coronary artery	12	A. No. No one's risk is zero given those
13	disease have an increased risk.	1	findings.
14	However, in an individual patient, then, you	14	Q. As best you can quantify for me, with these
15	need to take those things and apply some other	15	stress test results, assuming they are valid, what
16	criteria of the risk factors – age, sex, functional	16	does it put his risk at?
17	capacity, all those sorts of things. And then you	17	A. If you look at data from the coronary artery
18	could prognosticate to say what that person's risk		surgery study, in which people had severe coronary
9	means.	9	artery disease, if they were able to exercise into
0	So, in and of themselves, I think I am in	0	the fourth stage – which he did – of exercise,
1	agreement with you that there is an increased risk		their four-year survival was one hundred percent.
2	in those things. But, they don't in an individual		If you look at –
3	prognosticate for me what that patient's likelihood		Q. What study are we talking about?
4	of developing disease is or an event is.		A. Coronary artery surgery study.
5	Q. Okay. And what would do that? Specifically	25	Q. Where do I get my hands on it?
	Page 58		Page 60
1	in that case what would enable you to prognosticate?		A. It was a national registry that was surgery
2	A. I think in this gentleman's case you have a		patients collected from 1976to 1986. If you look
3	stress test, which I think is in cardiology one of		under anything in the Med Line under coronary
4	the best prognosticators there is. And he performed		surgery study you will find, even in 1996, articles
5	on a stress test. And that helps to prognosticate.		published about that patient population. That is a
586	Q. Does that remove the risk to zero?		well known study.
	A. No.		Q. So, they are saying in this study that people
8	Q. What does it lower the risk to?	_	with Mr. Peacock's anatomical findings and his
9	A. It doesn't change the risk of left ventricular	9	ability to do the stress test the way he did it -
0	hypertrophy and coronary <i>artery</i> disease.	10	they have a four-year survival rate of one hundred
	Q. No. The risk we are talking about is a risk		percent?
2	of a significant arrhythmia or an ischemic event.	12	MR. HUPP: Objection.
3	A. Iunderstand.	13	THE WITNESS: Individuals are
4	Q. How does – let's say this particular stress	14	again, we are trying to balance, again,
5	test	15	between findings on a study and the
6	A. It changes the risk profile for that	16	individual. But , patients who can exercise –
	individual. And where it does that is it translates	17	even patients with severe coronary artery
8	this anatomy into a patient, via functional capacity	18	disease who can exercise into the fourth stage
9	now gives us a complete picture of anatomy and	19	generally in that study had a one hundred
10	physiology picture of this patient's risk of an	20	percent survival rate of four years. BY MS. SPERANDO:
1:1	event.	21	
12	Q. How do we translate that to Mr. Peacock in terms of risk, now that we have the stress test?	22	Q. Since we are not relying on statistics, we are
13	A. I think his stress test is powerful	23 24	talking physician to patient one on one, not statistics that's how you want to be treated,
!4 !5	prognostication that says – he exercised to 12		right?
	prognostication and suys in cherclosed to 12	20	Page 57 - Page 60

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	1	A. That's right.	1	with this. In other words, Mr. Peacock
	2	Q. You don't want to he treated based on	2	presented with a syncopal episode.
	3	statistics. So, based on this particular	3	Does Doctor Boulware or Doctor Biblo or any of
	4	gentleman's physiology as determined by the tests	4	these other doctors have some sort of - you
	5	and based on his stress test what was his	5	are asking me if they have a responsibility -
"Kagasa"	6	risk for an event as we have talked about after the	6	BY MS. SPERANDO:
	7	stress test results were known?	7	Q. Within the standard of care.
		A. I will say near zero. Will that define it	8	A To tell him that he is at risk for sudden
	- 22-62-122	close enough for you?	9	death?
	10	Q. Near zero, but it is not zero?	10	Q. Yes. If he engages in vigorous activity such
		A. Yes.	11	as tennis.
	12	Q. If it is not zero, does a physician have the	12	MS. CARULAS: Objection.
		responsibility to tell the patient that there is a	13	MR. HUPP: same objection.
		risk, but it is a very small risk, however small it	14	THE WITNESS: He has an
	- 200	is?	15	obligation to educate him as to the
	16	MR. HUPP: Objection.	16	possibilities that it is there. That would be
	17	THEWITNESS: I think a physician	17	a tough one to
	18	has the duty to advise a patient what his risk	18	BY MS. SPERANDO:
	19	factors for problems, disease cardiac	19	Q. Now, let's focus on the stress test results.
	20	disease or otherwise – are and to help him	20	You understand that, doctor – that Mr. Peacock was
	21	modify those. To give the patient a number	21	given Nifedipine prior to the stress test; is that
	22	is that what you mean?	1	right?
	22	BY MS. SPERANDO:	1	A. Uh-huh.
	23 24	Q. No. I am saying if the risk for a sudden	24	Q. And that was because he had a – let me just
	2 4 25	cardiac event if a patient engages in a certain type		find it – he had a blood pressure of 168 over 116
<u>்</u>	25			
		Page		Page 64
J.	1	of behavior is not zero, does the physician have a		before the stress test; is that right?
1	2	duty within the standard of care to advise the	1	A. I think that's correct. Yes.
1	3	patient of the risk, however small it is?	1	Q. That's what Doctor Herskowitz says. If you
	4	MR. HUPP: objection. Asked		have some other -
	5	and answered.	1	A. Yes. I have a copy of the stress test nght
-	6	THE WITNESS: I think a physician		here. It says that.
	7	has the duty to educate the patient as best he	7	Q. So, when they gave him the Nifedipine. Is
;	8	can that he is at risk for whatever those	8	Procardia the same thing?
	9	reasons are and how to modify those risks. As	9	A. Yes.
and the particular of the part	10	far as telling them specifically all the	10	Q. When they gave him that drug, would it be,
i	11	outcomes and the chances of those, I don't	11	then, fair to say that they were not comfortable –
	312	know how you could do that.	12	those people who were administering the test were
	113	BY MS. SPERANDO:	13	not comfortable with allowing him to undergo a
:	14	Q. Well, sir, I am not asking about all the	14	stress test with a blood pressure of 168 over 116?
	115	outcomes. I am asking about a particular outcome;	15	MS. CARULAS: Note my objection.
	16	and that is sudden death. Does the physician - is	16	I think this has already been answered by the
t	17	he required by the standard of care to advise a	17	people themselves, meaning Doctor Effron and
	18	patient that he is at risk to whatever extent for	18	so forth.
{	19	sudden death if he engages in a certain type of	19	THE WITNESS: I can't comment on
<u>}</u>	20	activity?	20	his level of comfort in doing the test with
10151 ~	21	MR. HUPP: objection. That's	21	that kind of blood pressure.
	:22	the same question he just answered.	22	BYMS.S P E W :
	23	THE WITNESS: I don't think he	23	Q. Why, then, is it your understanding that the
1 and	24	has a requirement to advise a patient about a	24	ten milligrams of Procardia were given?
	25	specific event like that. I am having trouble	25	A. Ostensibly, it says that the blood pressure
	L	· · · · · · · · · · · · · · · · · · ·		Page 61 - Page 6 ²

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	was elevated at rest, and after ten milligrams of	1	is based on cardiac work. Cardiac work is defined
2	Nifedipine was 150 over 100. So, I am going to -	-I 2	basically as elevation of blood pressure and heart
3	can go with the logical assumption that he gave the	e 3	rate. The statistical significance of a stress test
1	Bocardia to lower the resting blood pressure.	4	depends primarily on reaching a maximum heart rate
	Q. Can you tell me, sir, then, to what extent the	5	of 85 percent of his predicted maximum, which he
	stress test results are valid, when Mr. Peacock is	6	
1	not given ten milligrams of Procardia or Nifedipir	ne 7	The fact that his blood pressure was elevated
	before engaging in vigorous exercise?	8	at rest didn't seem to affect his ability to elevate
	A. I think the stress test results are clearly	9	his blood pressure with exercise, which is a normal
1	valid. The resting blood pressure of 168 over 116		response to exercise. And, frankly , all these
	was apparently the result of not taking any	11	2
	medication prior to the stress test.	J D	test and the <i>limits</i> of acceptable stress test
1	Q. Wait a minute. Do you know that for a fact?	113	
	A. I don't know that, but that's what one would	14	Q. Doctor, I am going to have to confess, I don't
1	assume from this.	15	know anything about these tests , these results.
	Q. Well, on what basis are you assuming it?	116	
	A. Because we instruct patients usually to hold	17	pressure is elevated – and you can disagree with me
1	their medicines prior to stress testing.	118	
1	Q. Did you know that Mr. Peacock was instructed	i	
1	to take medications upon his discharge from <i>the</i> hospital?	20	
	A. Oh, yes, I am sure from the hospital he was	21	A That's what is inferred by that. Right. Q. And when there is an increased load or
1	instructed to take those.	22 23	pressure on the heart, that puts that person at
	Q. Is there anything in the record to indicate	24	greater risk for an arrhythmia or an ischemic event
1	that Mr. Peacock had taken or had not taken any	1	if, in fact, he has left ventricular hypertrophy,
		·····	
1	medication before he went to the stress test?	ige 66	Page 68 coronary artery disease that would otherwise cause
1 2	MR. HUPP: objection.	2	him an ischemic event.
3	THE WITNESS: I don't actually	3	
4	have that here. I don't know that. I don't	4	correct, and it may have some significance. The
5	know that, whether he was instructed $-I$	-	heart doesn't sense blood pressure. The heart
6	don't know how he was instructed prior to this	1	senses tension – wall tension. Wall tension and
7	stress test to prepare himself for the stress	7	pressure are not the same thing. It has something
8	test.	8	to do with the size and shape of the heart. It does
-	BY MS. SPERANDO;	9	have something to do with the thickness of the
1	Q. So, not knowing one way or the other whether	10	
	he had taken any blood pressure medication, but	11	And so, we infer that the tension inside the
	knowing that his blood pressure prior to the test	12	
	was 168 over 116, and knowing further that with t	1	
	blood pressure he was given Procardia and then ha		
	blood pressure of 150 over 100, at which point the	1	
	stress test was administered, to what extent then	. 16	
1	can you say that the results of this stress test	17	and systolic blood pressure to also infer that
	would be valid if Mr. Peacock had not been	:18	
19	administered ten milligrams of Procardia or a	19	hope it relates the two.
20	similar drug prior to engaging in rigorous exercise	e 20	Q. Okay. So, basically, the higher the blood
21	such as he was made to do on the stress test?	21	pressure, especially after a certain point, the
22	A. These stress test results are completely	22	greater the risk of damage to the heart when you
23	valid, even given the Procardia.	:B	engage in vigorous exercise?
24	Q. Dega me. Tell me why.	24	A. Oh, no. Any one of us sitting at the table
25	A. Because the validity of a stress test result	25	can probably elevate our blood pressure to the level

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	1	this was elevated. People who are not hypertensive	1	results? I mean, you are testing what his blood
	2	will achieve with each stage of exercise somewhere	2	pressure is going to be and his heart rate is going
	3	around seven to ten millimeters of mercury increase	3	to be at the end of this stress test. That's what
	4	in their blood pressure. Assuming you start at a	4	you want to find out, correct?
)	5	normal blood pressure of 120, 130, if you go five or	5	A. Yes.
1	6	six stages, you will hit 200 millimeters mercury.	6	Q. And yet, immediately prior to the stress test
	7	There is no damage to your heart from doing that.	7	you give him drugs which will affect both the blood
	8	Q. Like I said, I could be wrong. I understand	8	pressure and the heart rate. So, then you say -
	9	that in a person such as Mr. Peacock, with his	9	A. He didn't receive any drug to affect his heart
	10	anatomical status and condition, that a high blood	.10	rate.
	11	pressure puts him at risk for a cardiac event.	11	Q. Is it your contention, doctor, that a drug
	12	A. His high blood pressure chronologically, in	12	that affects blood pressure is not going to affect
	13	other words, over many years, puts him at risk for a	.13	heart rate? Is that what you are saying?
	14	cardiac event. Hypertension systemic	14	A. There is no evidence that being given
	15	hypertension is a known independent risk factor for	15	Procardia affected his heart rate. Procardia is not
	16	heart disease. Hypertension chronically over the	16	known to affect heart rates.
	17	years also puts him at risk for left ventricular	17	Q. Not at all?
	18	hypertrophy.	18	A. No.
	19	Again, the disease and the risk are	19	Q. So, blood pressure has no correlation
	20	different. His hypertension as a single event - in	20	whatsoever to heart rate?
	21	other words, walking on a treadmill and elevating	:21	A. No. That's not true. There are drugs that do
	22	his blood pressure to a level of 210 over 100 – is	22	affect both blood pressure and heart rate, most
	23	not a significant risk factor for anything.	:23	notably Atenolol, which he is on. But, drugs like
	24	Q. Why would they lower the blood pressure before	24	Lisinopril, which he is on, generally do not give
	25	they even the start the test? What is the point?	25	you reflex tachycardia. And, in fact, Lisinopril
)		Page 70		Page 72
)	1	A. It is interesting that they do it. They may	1	has an effect that statistically lowers heart rate.
)	1 2	A. It is interesting that they do it. They may have some criteria for that. And I don't know what	1 2	has an effect that statistically lowers heart rate. So, even though it lowers blood pressure, it also
)		A. It is interesting that they do it. They may have some criteria for that. And I don't know what Doctor Effron's criteria is. But, in general, if	2 3	has an effect that statistically lowers heart rate. So, even though it lowers blood pressure, it also does lower heart rate, not through the same
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	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. It is interesting that they do it. They may have some criteria for that. And I don't know what Doctor Effron's criteria is. But, in general, if someone presents at baseline for a stress test – and I thirk, you know, there is documentation for <i>this</i> with a blood pressure – I use the number 180 over 120 at baseline. If they present with a pressure below that, then they are actually statistically okay to exercise on that treadmill test. Statistically meaning – realizing that there is no report that I am familiar with – and having done this as a fellow, I haven't really looked at this in a long time. But, there is no report that anybody on a treadmill presenting with blood pressures <i>Like</i> that ever suffered an event, even though their blood pressure is elevated. — In general, we limit people on a treadmill when their pressures start to either at baseline – again, my limitation is 180 over 120 – and other people vvill use different numbers . But, the limitation with exercise is more in the range of 250	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 has an effect that statistically lowers heart rate. So, even though it lowers blood pressure, it also does lower heart rate, not through the same mechanism. So, some of them do give you reflex tachycardia. Some of them do give you bradycardia. There are all sorts of combinations. Nifedipine itself isn't something that chronotropically affects the heart. Q. You are trying to determine as a result of the stress test what his blood pressure voill be and what his heart rate will be, and then you give him a drug immediately prior to the stress test that you know is going to affect the blood pressure, which drug you don't give him immediately prior to his engaging in tennis or whatever else he is going to do. So, how then can you rely on these stress test results to prognosticate what will happer in a setting where he is not given these drugs? A. Okay. Number one, the stress test is still valid as long as your heart rate criteria reaches 85 percent of maximum. A secondary criteria might be
	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. It is interesting that they do it. They may have some criteria for that. And I don't know what Doctor Effron's criteria is. But, in general, if someone presents at baseline for a stress test – and I thirk, you know, there is documentation for <i>this</i> – with a blood pressure – I use the number 180 over 120 at baseline. If they present with a pressure below that, then they are actually statistically okay to exercise on that treadmill test. Statistically meaning – realizing that there is no report that I am familiar with – and having done this as a fellow, I haven't really looked at this in a long time. But, there is no report that anybody on a treadmill presenting with blood pressures <i>Like</i> that ever suffered an event, even though their blood pressure is elevated In general, we limit people on a treadmill when their pressures start to either at baseline – again, my limitation is 180 over 120 –- and other people vvill use different numbers . But, the limitation with exercise is more in the range of 250 systolic and 120 diastolic.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	has an effect that statistically lowers heart rate. So, even though it lowers blood pressure, it also does lower heart rate, not through the same mechanism. So, some of them do give you reflex tachycardia. Some of them do give you bradycardia. There are all sorts of combinations. Nifedipine itself isn't something that chronotropically affects the heart. Q. You are trying to determine as a result of the stress test what his blood pressure vvill be and what his heart rate will be, and then you give him a drug immediately prior to the stress test that you know is going to affect the blood pressure, which drug you don't give him immediately prior to his engaging in tennis or whatever else he is going to do. So, how then can you rely on these stress test results to prognosticate what will happer in a setting where he is not given these drugs? A. Okay. Number one, the stress test is still valid as long as your heart rate criteria reaches 85 percent of maximum. A secondary criteria might be to include blood pressure criteria. But, heart rate
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	Dr.	J. M. Koch	londen	se	Peacock v. Univ. Hospitals
		Pa	ge 73		Page 75
	1	assumption about what he did or didn't receive		1	exercise blood pressure , which is 210, which is over
	2	here. So, whether he received these medicines –		2	31,000. That is a very high rate pressure product.
2	3	Atenerol and Lisinopril before stress testing, I		3	And for me as a cardiologist I would use that number
	4	have no idea. But, he certainly is prescribed those		4	to tell me this is clearly an adequate stress test.
	5	medicines on discharge from the hospital, and so		5	Q. But, any figures that you are using with
	6	ostenibly has taken them prior to exercise. I can't		6	regard to the blood pressure by definition have to
	7	tell you that his status when he presented for the		7	be invalid, because you have manipulated the blood
	8	exercise has anything to do with his status prior to		8	pressure from the start, have you not?
	9	playing tennis.		9	A. "'hat's not true. That might be your intuitive
	io	Q. I am not asking you that.	1	0	sense, but it is simply not true.
	11	A. You are asking me to predict on the basis of	ł	1	Q. I'm not relying on my intuition here. It says
	12	this stress test whether – you are saying he didn't	1	2	he starts out with a blood pressure of 168 over
	13	get Nifedipine before he played tennis. I don't	1	3	116. It further says he is given ten milligrams of
	14	know what he got before he played tennis. I don't	1	4	Procardia. It further says, which resulted in a
		know what he got before he took this stress test.	1	5	lowering of his blood pressure to 150 over 100.
	16	All I can tell you is that, statistically		L6	A. That's an assumption that Doctor Herskowitz
	17	speaking, the criteria for stress test accuracy is		17	made. I don't know that.
	18	based on heart rate, which he achieved. It doesn't		18	Q. Take a look at the record.
	19	have anything to do with the thallium – and that		19	A. I am reading it with you.
	20	the blood pressure is actually not a major criteria		20	Q. Not Herskowitz Don't even take his word for
	21	for determining whether this stress test is accurate		21	it. Let's take a look at the record.
	22	or not. His blood pressure rate product – his rate		12	A. I have it right here in front of me.
	23	blood pressure proauct is actually quite good, 150		B	Q. What do the physicians say his sequence of
	24	times 210. I would challenge anybody in this room		14	events were?
	25	to reach a rate pressure uroduct of 31,500. That's		25	A . They don't actually detail his sequence of
2		Pa	ge 74		Page 76
I	1	a very high rate pressure product.		1	events. I am not willing to assume –
		Q. What are you talking about – after he is		2	Q. No. Are you finished?
		given the Procardia?		3	A. I am finished.
	4	A. Yes; well, after he has exercised. His peak		4	Q. You have to understand I am not asking you to
	5	exercise blood pressure is 210 over 100.		5	assume anything one way or <i>the</i> other. Basically, I
	6	Q. But, he has just been given ten milligrams of		6	am asking you not to assume anything. And I don't
	7	Procardia.		7	know whether he took his medicines. And apparently,
	8	A. Doesn'tmatter.			neither do you. Is that fair to say?
	9	Q. Isn't the effect of the Procardia to lower the		9	A. That's correct.
	10	blood pressure?		I0	Q. So, then, to make any conclusions based upon
	11	A. Yes.	:	11	any assumption of whether he did or did not take his
	12	Q. So, if you start out With a lower blood		12	medicines would not be accurate, correct?
	13	pressure and then you engage in a stress test, does		13	A. It wouldn't be accurate, and it wouldn't have
	14	that not affect the blood pressure?		14	5
	15	A. It affects the blood pressure, but it does not		15	Q. That's what I am asking you to do. I don't
	16	affect the validity of the results of this test.		16	want you to make any assumptions. We need to get
	17	Q. All you are looking at is the end result heart	- -	17	that straight. Secondly, just forget about what
	18	rate?		18	Doctor Herskowitz said. And read for me what it was
		That's the definition of a valid test.		19	his starting blood pressure was.
		But, that's not all I am looking at. I am		20	A. 168 over 116.
100	21	also looking at the fact that his rate pressure	:	21	Q. What was the next thing they did as reflected
E B	22	product which is maybe not the most up to date	:	22	5
	23	way to look at this or whatever or something that		23	
	24	they have detailed here - his rate pressure product		24	· 이상은 특별 사업에서 가장 것을 수 있는 것을 하는 것을 하는 것을 수 있는 것을 수 있는 것을 하는 것을 하는 것을 하는 것을 하는 것을 하는 것을 수 있는 것을 하는 것을 하는 것을 하는 것을
	25	is the highest rate attained, 150, times his peak		25	ten milligrams of Nifedipine, the bloød pressure was
					Page 73 - Page 76

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1 150 over 100.	1	1 1	rate pressure product. I also use a minimum of six
2 Q. So, the record itself, whoever wrote that, has	3 2	2 1	mets for his metabolic capacity.
3 made the conclusion that after the Procardia wa	s 3	3 (Q. And you say in your report, doctor, that no
4 administered his blood pressure decreased,	4	4 s	segmental wall motion abnormalities were seen; is
5 presumably as a result of the blood pressure	5	5 t	that right?
6 medication, correct?	6	6 4	A. Yes.
7 A. I thirk a reasonable person would assume	7	7 (Q. I recall having read by Doctor Herskowitz's
8 that. However – go ahead.	8		conclusions that the segmental wall motion
9 Q. So, now, how can you not then say strictly	9	98	abnormalities let me just get it here for a
in with regard to the blood pressure results of this	10		second. He said something about okay. Okay.
11 test and not any intuition that I am coming up v	vith 11	1	On Page Five, at the bottom of Page Five, he
12 that the blood pressure was not manipulated with	th or 12	2 8	says, "The amount of' - this is the third sentence
affected before the test even started?	13	3 f	from the bottom "The amount of permanent heart
MR. HUPP: Note an objection.	14	4 1	muscle damage was small, and altered wall motion
He has already answered that three times.	15	5 🕤	could have easily been masked, particularly in
116 Maybe you are not understanding it. But, th	nat 16	6 I	Mr. Peacock's hyperdynamic thick-walled ventricle."
has been asked and answered. It really has.	17	7	Do you <i>agree</i> or disagree with that, sir?
18 THE WITNESS: ' The blood pressure	18	8 4	A. Well, again, I haven't seen the
19 has nothing to do – as it was manipulated	19	96	echocardiogram. And I haven't seen the tape. I
prior to this test has nothing to do with the	20	0 0	don't h o w the quality of that tape. I can't tell
21 accuracy of this test. The accuracy of this	21	1 y	you that it was masked by something technical about
:12 test depends on achieving a maximum heart	rate 22	2 t	the study. However, in general, where there is
of at least 85 percent of his predicted	23	3 ł	meart muscle damage or ongoing ischemia, wall motion
:14 maximum the electrocardiographic accura	ncy. 24	4 8	abnormalities are generally considered to be very
I5 Number two, his blood pressure rate produc	tis 25	5 5	sensitive. So, if there was a non-Q wave myocardial
	Page 78		Page 80
1 adequate. I don't care where it started. I	- 1	1 i	infarction or ongoing ischemia, I would expect to
2 don't care the baseline. His <i>peak</i> exercise	2		see some wall motion abnormality.
3 blood pressure times rate product is adequat	e 3	3 (Q. I understand what you would expect to see. My
4 for me to look at this test and tell you that		4 (question, sir, is do you agree with him that altered
5 this is an accurate test, clearly an accurate	5	5 v	wall motion could easily have been masked,
6 test.	6	6 J	particularly in Mr. Peacock's hyperdynamic
7 BY MS. SPERANDO:	7	7 t	thick-walled ventricle? Is that a possibility?
8 Q. So, focusing, then, on the blood pressure rate	e 8	8 4	A. The word "mask" is an unfortunate choice of
9 product, that does not depend upon any change	in 9	9 V	words. Altered wall motion may not be seen or
10 blood pressure as a result of a drug before the te	est I	0 5	something like that. But, whether it was masked –
11 starts?	11		Q. Whether or not they use the word "mask" -
12 A. No, doesn't depend on it. I am only	12		but, basically, you agree with the proposition that
13 interested to make <i>sure</i> he has achieved some			it could have been missed, particularly in
14 minimum.	14	4 l	Mr. Peacock's hyperdynamic thick-walled ventricle?
15 So, in fact, you have probably gone above a	nd 15	5	MS. CARULAS: Note my objection.
16 beyond achieving that minimum . You have pro	bably 10	6	I think he has answered it.
17 gotten - you started with a lower blood pressur		7	THE WITNESS: Yes.
18 whatever. It doesn't matter. You have achieved			BY MS. SPERANDO:
19 minimum, in fact, gone way above the minimu			Q. All right. Let's go and read Doctor
20 would be required – and I thirk any reasonable	20		Herskowitz's report. I would like to know what it
21 practitioner would be required – to call this	21		is that you specifically disagree with. So, let's
22 stress test accurate. And it doesn't matter that	he 22	2 g	go through it as much as we <i>can</i> .
23 received the Procardia prior.	23		If, in fact, Mr. Peacock had experienced
24 Q. That minimum being what, sir?	24		dizziness or light-headedness for about five minutes
25 A. In general, I use a minimum of 20,000 for t	he 25	5]	prior to the syncopal event, what, in your <i>mind</i> ,
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<u>)</u> r	J. M. Koch Cond	ense	Elt [™] Peacock v. Univ. Hospital
	Page 8	1	Page 83
1	would be the significance of that?	1	A. I think that that's a pretty dramatic stretch
2	MR. HUPP: what page are we	2	of the findings.
3	on?	3	Q. So, you don't agree?
4	MS. SPERANDO: Page One.	4	A. I don't thirk there is evidence of that.
5	THE WITNESS: Honestly, I don't	5	Q. Okay, The intern goes on to say, "Doubt
6	know the significance of that. In the middle	6	neurally mediated syncope, given <i>the</i> fact that the
7	of exercise, that's certainly possible. The	7	patient was exerting himself when it happened.
8	gentleman was playing two hours of tennis. He	8	Patient was not orthostatic and neuro exam was
9	may have been fatigued. I don't know. Again,	9	
10	"dizziness" is a fairly difficult term to use	1	sentence: "Doubt neurally mediated syncope"-
11	medically. I don't have any evidence in his	11	
12	record that he had true vertigo. No one	12	-
13	established that.	13	Q. What about the fact that he was not
	BY MS. SPERANDO;	1	orthostatic and neuro exam was nonfocal in
	Q. If he did, in fact , have true vertigo or	1	conjunction with the fact that he was exerting
15		4 5	
16	light-headedness prior to the event, what if any		himself when it happened?
17	significance would that have to you in terms of his		
18	having experienced a cardiac event?		orthostasis. But, interns are notoriously
19	A. I don't think it necessarily points to a	19	unreliable for that. Do you have a definition for
20	cardiac event at all. He might be dehydrated or	20	what he means by orthostasis? Again, I don't know
21	simply fatigued.	21	Doctor Herskowitz's understanding of that term,
22	Q. If, in fact, he did not have any symptoms	22	either.
23	prior to his syncopal episode, what significance if	23	Q. He is quoting the intern at this time.
24	any would that be to you in terms of whether he had		A. I understand. But, orthostasis is a
25	acardiacevent?	25	
	Page 82		Page 84
1	A. If he didn't have say that again.		Q. How do you define it, sir?
2	Q. Any symptoms at all.		A. Orthostasis in a patient like this is most
3	A. If he had no symptoms at all prior to this		easily defined as a heart rate variability as the
4	event, would it have		patient is brought from a lying to a standing
5	Q. What significance would that have in terms of		position. And generally, an increase of heart rate
6	whether this was a cardiac event; that is, the	6	is really your most sensitive finding of
7	syncopal episode?	7	orthostasis. The change in blood pressure is often
8	A. Again, in a young patient with syncope, that	8	what interns like to use. But, it is not generally
9	doesn't help me.	9	considered to be the definition. And so -
10	Q. What about a complaint of shortness of breath	10	Q. Let me ask you this: If the event happened
11	while playing tennis that day?	1.1	while he was exerting himself and, in fact,
12	A. I am not surprised he is short of breath. The	12	Mr. Peacock was not orthostatic and the neuro exam
13	man was playing tennis. I think certainly anybody	13	was not focal, do those factors then mitigate
14	who does aerobic exercise is going to be short of	14	against this having been a neurally mediated event?
15	breath.	15	A. No. It still very <i>well</i> could be a
16	Q. So, no significance to you in terms of a	16	neurocardiogenic event.
17	cardiac event?	17	Q. In your opinion, doctor, within a reasonable
18	A. No.	18	degree of medical probability, the cause of
19	Q. Let's go to Page Two, please. Now,	19	Mr. Peacock's syncope on May 8, 1994, was?
20	apparently, the intern who was taking care of	20	A. The cause of his syncope? I don't know the
21	Mr. Peacock on May 8 when he was admitted concluded,	21	
22	quote, "Given cardiac enzymes, T wave inversions in	22	definition. My opinion? Is that what you are
23	V4 to V6, and two plus MB. This could very well be	23	
24	ischemic heart disease causing VT and syncope."	24	
25	Do you agree with that?	25	And Market Market and Andrew Andre
L			Page 81 - Page 8

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	171. J. 141. AUCH	Condense	Peacock v. Univ, Hospitals
	and a management of the second state of the se	Page 85	Page 87
	1 what we call or what is known as vasovagal		A. I wish I could answer that. I am going to
	2 means, in other words, an abnormal reflex of s	some 2	guess on the order of eight hours – eight to ten, I
- P. 1	3 sort. It may have also been neurocardiogenic,	3	would say.
	4 although I don't have specific evidence of that	. 4	Q. Did you look at the ECG that was done on May
	5 Q. When you say neurocardiogenic, what do y	ou 5	8?
	6 mean?	6	A. I believe I did, although the ECG's that I
	7 A. There are a number of reflexes that can cau	ise 7	have received are not very adequately labeled for
	8 a patient to pass out, particularly given vigoro	us 8	time and so on and so forth. But, I believe we
	9 exercise on blood pressure medications after fa	airly 9	established the order of them.
l.	10 long period of time, at which point whether or	not 0	Q. Can you, please, sir, refer to it and tell me
1	11 they have defined orthostasis correctly – he m	ay 1	if you agree with Doctor Herskowitz that there was
	12 have been dehydrated.	2	one millimeter ST elevations in leads two, three,
	13 Again, I don't know when this intern write	es 3	and AVF?
	14 this note. If he writes the note likely several	14	A. I did look at that in light of his
	15 hours after the patient arrives and has been	15	ascertation. Or the presenting EKG, which is the
	16 rehydrated in the emergency room, et cetera, e	t ¹ 6	one here, which – I can understand how someone
	77 cetera – I am a little lost to defme what has	17	might look at that – there is not a baseline that
	18 happened necessarily to that patient.	18	allows you to measure that. And I don't see one -
1	19 He may have indeed had a combination of	those 19	number one, I don't see one millimeter of ST
ł	20 things. And given the fact that it happened du	ring 20	elevation. And number two, I think the baseline is
	21 exercise, I would likely say it is probably wha	t I 21	a little too erratic to tell you exactly what the ST
:	22 call a vasovagal event.	22	segment is doing. It looks quite nonspecific to me.
	23 Q. Meaning?	23	Q. Do you need a previous would a previous EKG
	24 . Lauran and a composition of all power	24	in terms of baseline help you determine?
1000	25 or lowering of his blood pressure - sudden low	wering 2.5	A. Not for this particular EKG.
		Page 86	Page 88
U	1 - or the slowing of the heart rate, bradycardia,	. 1	
	2 would combine to make him pass out.	2	Thereupon, a brief recess was
	3 Q. Just so that we are on the same wavelength	, 3	taken off the record.
	4 does your definition of vasovagal include an	4	
	5 arrhythmia?	5	BY MS. SPERANDO:
	6 A. No, not a malignant arrhythmia – bradycar	rdia 6	Q. Doctor, as I understand a vasovagal response,
4	7 being the slowing of the heart rate.	7	what happens is - in layperson's terms - when you
	8 Q. Does it include an ischemic event?	gamo 2 8	are exercising vigorously and then you stop
	9 A. No.	201 9	suddenly, your brain is sent a message that it does
	10 Q. So, as we sit here today, knowing everythin	ig is 10	not need as much oxygen, and then it sends a message
	11 you know about the fact that he died while pla	ying 11	down to the heart saying, "I don't need as much
	12 tennis, all the test results, the autopsy report, i	t [12]	oxygen, and you can slow down," but what happens is
	13 is your opinion within a reasonable degree of	13	that the heart slows down too much and then causes
	14 medical probability that Mr. Peacock's syncop	al 14	the syncopal episode. Is that basically it?
۰.	15 episode on May 8 was not the result of some f	orm of 15	A. Basically, that's right. In other words, the
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	an arrhythmia or an ischemic event; is that fai	r to 16	heart receives a signal to slow itself down or the
	17 say?	² 17	peripheral vasculature suddenly dilates, and the
	18 A. That's fair to say.		blood pressure can drop because of that. Or it may
På som veg	19 Q. Doctor, how much are you getting paid per	hour 19	be a combination of both.
	20 on this case?	10	Q. That's why <i>those</i> people who exercise – myself
	21 A. That's a good question. In general, I charg	e :1	being one of them, when I was were told, "When
k d	22 \$400.00 an hour.	:2	you finish exercising have a cool-down period and
2	23 Q. How many hours have you billed this for?	:3	don't stop suddenly"; is that right?
	24 A. For this whole case?	24	A. Well, ir general, we do tell people to cool
	25 Q. Yes, sir.	25	down. It is not because we are afraid necessarily
			Page 85 - Page 88

<u>)</u> 1	. J. M. Koch Cond	ense	elt Peacock v. Univ. Hospita
	Page 8	9	Page 9
1			A. Well, he may have interpreted it one way or
2	but certainly, the potential is there, particularly	2	the other. I am looking at these. And, again, I
3	where someone has been charged up in an emotional,	3	don't know what he read in reference to that. But,
4	hard driving situation.	4	I am looking at the same two ECG's. And I don't see
5	Q. Is there any evidence that you know of that	5	any defined ST elevation in these inferior leads.
6	Mr. Peacock suffered his syncopal event after having	6	And I see clearly that you have a beautiful
7	stopped playing tennis or stopped engaging in	7	baseline on the next EKG, which clearly has no ST
8		8	elevation present. It is very difficult to compare
9	A. I don't know. I don't know exactly what the	9	these two EKG's and try to draw a conclusion. Is
0	event was or exactly how it happened, in the sense	10	that what you are saying?
1	that I know that he was playing tennis. To my	11	Q. Let me ask you what it was we can infer that
$\frac{1}{2}$	understanding, he was having vigorous activity and	12	Doctor Chaffee was concluding when he said, "ST no
3	in the course of that had passed out.	13	longer elevated in inferior leads." Would it be
4	Q. So, if, in fact, Mr. Peacock was continuing to	14	
5	play tennis and experienced \mathbf{a} syncopal episode while	1	ST had been elevated in the inferior leads?
6	engaging in Vigorous activity, as opposed to	-	A. That's what that would imply, although he also
7	stopping cold or short at any time, and then	1	talks about a 44 beat change in the heart rate. And
	experienced that syncopal episode, would that not		it is quite common knowledge that ST segments are
8	mitigate against your conclusion that it was a	•	very sensitive to rate changes. And 44 beats would
0		20	certainly change the orientation of an ST segment.
	A. No. That is a well described phenomenon, that		So, I don't know if he is implying any clinical
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$		21 22	finding by that at all.
	or neurocardiogenic, if you will, to broaden that	1	•
3	term. And that's been well described.	23	Q. How did the second EKG change? What were the
4		24	changes in the findings? And what if any
5		25	
	Page 9		Page
1	5	1	A. Again, comparing EKG's, you have to realize
	was in the hospital?	1	there is a change in heart rate. There is a change
	A. Fairly nonspecific finding.	3	in his clinical situation. The changes, if at all,
	Q. What was the significance of the ST having	4	are nonspecific, Comparing them side by side right
	been elevated in the inferior leads in the ECG taken	5	now as I am , it is hard for me to say that there is
6	on 5/8?	6	
7	A. I den'? think it is defined as elevated. I am	7	Q. What is the significance of a decrease in
8		8	
9	anybody to tell me that that is an elevated EKG or	9	A. Well, certainly, people have elevated heart
0	ST segment. If you will look at the EKG carefully,	10	rates for a lot of reasons. Anxiety could certainly
1	you will see that lead two is actually downsloping.	11	be one. I am going to guess that that's the likely
2	And the ST segment in the first lead is fully five	12	difference.
3	or six millimeters above that in the last segment,	13	Q. The 24-hour Holter monitor that Doctor
4	as it is in lead three. And then AVF actually goes	14	Herskowitz notes that the -"ST depressions up to
5	up.	15	1.3 millimeters including T wave inversion in
6	It is impossible to define what the ST segment	16	channel one were noted"
7	level is in those leads, but it doesn't appear to be	17	What significance if any would those ST
8	significant.	18	depressions and T wave inversions have for you?
9		19	
:0		20	a patient with left ventricular hypertrophy, that
1	about the ventricular rate having decreased by 44	21	
2	beats per minute and says and I am quoting "ST	22	
1	no longer elevated in inferior leads."	8	here that the "EKG monitoring revealed 1.5
4	Do you know what he is referring to when he		millimeter ST depressions in leads two, three, AVF
:5	says, "ST no longer elevated in inferior leads"?		in V5 to V6 during peak exercise." Do you see when
L.,			in to to to during pour excicise. Do you see when

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1it says that on Page Three of Doctor Herskowitz's1shown on that stress test were suggestive of2report?3A. Yes.3A. No.4Q. What significance if any is that to you?5A. No clinical significance whatsoever in a6patient with left ventricular hypertrophy.4Q. What was the significance of the conclusion by7Q. Do you know why the conclusion was, "abnormal5 let me go back one. If there is, in fact, a8stress test"?6handwritten test report which states, "abnormal8stress test"?8why anyone would make that conclusion?9A. That was the conclusion?9A. That would be almost an impossible conclusion10Q. Yes, sir.10to make from this stress test, given the fact that,11A. Let me look at this.11as they accurately state here, the patient's12Q. Are you not aware of the fact that that was12baseline ECG is abnormal and precludes accurate13the conclusion?14to define that. So, I don't know who would have14to define that?16Q. So, you agree, then, that the abnormal15There.11baseline ECG precludes accurate interpretation of18There.15A. Correct.19THE WITNESS;It doesn't say1914O. Correct.19A. Correct.		Page 93	1	Page 95
2 report?2 myocardial ischemia?3 A. Yes.3 A. No.4 Q. What significance if any is that to you?4 Q. What significance of the conclusion by5 A. No clinical significance whatsoever in a5 let me go back one. If there is, in fact, a6 patient with left ventricular hypertrophy.6 handwritten test report which states, "abnormal7 Q. Do you know why the conclusion was, "abnormal7 stress test." do you have any understanding as to8 stress test"?8 why anyone would make that conclusion?9 A. That was the conclusion?9 A. That was the conclusion?10 Q. Yes, sir.10 to make from this stress test, given the fact that,11 A. Let me look at this.11 as they accurately state here, the patient's12 Q. Are you not aware of the fact that that was12 baseline ECG is abnormal and precludes accurate13 the conclusion?13 interpretation. By definition, you wouldn't be able14 A. I want to read exactly what it says, only14 to define that.15 because, again, extracting one sentence what did16 Q. So, you agree, then, that the abnormal16 we do With that?17 MR, HUPP:17 MR, HUPP:Let's use this.18 There.19 THE WITNESS;19 THE WITNESS;It doesn't say19 THE WITNESS;It doesn't say		5		
 3 A. Yes. 4 Q. What significance if any is that to you? 5 A. No clinical significance whatsoever in a 6 patient with left ventricular hypertrophy. 7 Q. Do you know why the conclusion was, "abnormal 8 stress test"? 9 A. That was the conclusion? 9 A. There. 9 THE WITNESS: It doesn't say 3 A. No. 4 Q. What was the significance of <i>the</i> conclusion by 5 let me go back one. If there is, in fact, a 6 handwritten test report which states, "ahnormal 7 stress test," do you have any understanding as to 8 Why anyone would make that conclusion? 9 A. Correct. 			2	
 5 A. No clinical significance whatsoever in a 6 patient with left ventricular hypertrophy. 7 Q. Do you know why the conclusion was, "abnormal 8 stress test"? 9 A. That was the conclusion? 0 Q. Yes, sir. 1 A. Let me look at this. 1 A. Let me look at this. 2 Q. Are you not aware of the fact that that was 13 the conclusion? 4 A. I want to read exactly what it says, only 15 because, again, extracting one sentence what did 16 we do With that? 17 MR. HUPP: Let's use this. 18 There. 19 THE WITNESS: It doesn't say 5 let me go back one. If there is, in fact, a 6 handwritten test report which states, "abnormal 7 stress test, "do you have any understanding as to 8 why anyone would make that conclusion? 9 A. That would be almost an impossible conclusion 10 to make from this stress test, given the fact that, 11 as they accurately state here, the patient's 12 baseline ECG is abnormal and precludes accurate 13 interpretation. By definition, you wouldn't be able 14 to define that. So, I don't know who would have 15 written that. 16 Q. So, you agree, then, that the abnormal 17 MR. HUPP: Let's use this. 18 There. 19 THE WITNESS: It doesn't say 19 A. Correct. 	÷.,	-	1 5	
 5 A. No clinical significance whatsoever in a 6 patient with left ventricular hypertrophy. 7 Q. Do you know why the conclusion was, "abnormal 8 stress test"? 9 A. That was the conclusion? 0 Q. Yes, sir. 1 A. Let me look at this. 1 A. Let me look at this. 2 Q. Are you not aware of the fact that that was 13 the conclusion? 4 A. I want to read exactly what it says, only 15 because, again, extracting one sentence what did 16 we do With that? 17 MR. HUPP: Let's use this. 18 There. 19 THE WITNESS: It doesn't say 5 let me go back one. If there is, in fact, a 6 handwritten test report which states, "abnormal 7 stress test, "do you have any understanding as to 8 why anyone would make that conclusion? 9 A. That would be almost an impossible conclusion 10 to make from this stress test, given the fact that, 11 as they accurately state here, the patient's 12 baseline ECG is abnormal and precludes accurate 13 interpretation. By definition, you wouldn't be able 14 to define that. So, I don't know who would have 15 written that. 16 Q. So, you agree, then, that the abnormal 17 MR. HUPP: Let's use this. 18 There. 19 THE WITNESS: It doesn't say 19 A. Correct. 		4 Q. What significance if any is that to you?	4	Q. What was the significance of the conclusion by
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 7 Q. Do you know why the conclusion was, "abnormal stress test," do you have any understanding as to 8 stress test"? 9 A. That was the conclusion? 9 A. That was the conclusion? 9 A. That was the conclusion? 9 A. That would be almost an impossible conclusion 10 Q. Yes, sir. 11 A. Let me look at this. 12 Q. Are you not aware of the fact that that was 13 the conclusion? 14 A. I want to read exactly what it says, only 15 because, again, extracting one sentence what did 16 we do With that? 17 MR, HUPP: Let's use this. 18 There. 19 THE WITNESS: It doesn't say 7 stress test," do you have any understanding as to 8 why anyone would make that conclusion? 9 A. That would be almost an impossible conclusion 17 MR HUPP: Let's use this. 18 There. 19 THE WITNESS: It doesn't say 10 stress test," do you have any understanding as to 8 why anyone would make that conclusion? 9 A. That would be almost an impossible conclusion 19 THE WITNESS: It doesn't say 	制制	e e	6	
 8 stress test"? 9 A. That was the conclusion? 9 A. That was the conclusion? 9 A. That was the conclusion? 9 A. That would be almost an impossible conclusion 10 Q. Yes, sir. 11 A. Let me look at this. 12 Q. Are you not aware of the fact that that was 13 the conclusion? 14 A. I want to read exactly what it says, only 15 because, again, extracting one sentence what did 16 we do With that? 17 MR. HUPP: Let's use this. 18 There. 19 THE WITNESS: It doesn't say 19 THE WITNESS: It doesn't say 			7	-
 9 A. That was the conclusion? 9 A. That would be almost an impossible conclusion 10 Q. Yes, sir. 11 A. Let me look at this. 12 Q. Are you not aware of the fact that that was 13 the conclusion? 14 A. I want to read exactly what it says, only 15 because, again, extracting one sentence what did 16 we do With that? 17 MR. HUPP: Let's use this. 18 There. 19 THE WITNESS: It doesn't say 9 A. That would be almost an impossible conclusion 10 to make from this stress test, given the fact that, 10 to make from this stress test, given the fact that, 11 as they accurately state here, the patient's 12 baseline ECG is abnormal and precludes accurate 13 interpretation. By definition, you wouldn't be able 14 to define that. So, I don't know who would have 15 written that. 16 Q. So, you agree, then, that <i>the</i> abnormal 17 baseline ECG precludes accurate interpretation of 18 There. 19 THE WITNESS: It doesn't say 19 A. Correct. 			8	
10Q. Yes, sir.10to make from this stress test, given the fact that,11A. Let me look at this.11as they accurately state here, the patient's12Q. Are you not aware of the fact that that was12baseline ECG is abnormal and precludes accurate13the conclusion?13interpretation. By definition, you wouldn't be able14A. I want to read exactly what it says, only14to define that. So, I don't know who would have15because, again, extracting one sentence what did16we do With that?16we do With that?16Q. So, you agree, then, that the abnormal17MR. HUPP:Let's use this.1718There.18There.19THE WITNESS:It doesn't say1910A. Correct.19		9 A. That was the conclusion?	9	
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18There.18exercise induced ST displacement?19THE WITNESS:It doesn't say19A. Correct.		17 MR. HUPP: Let's use this.	17	
19 THE WITNESS: It doesn't say 19 A. Correct.	1	18 There.	18	
		19 THE WITNESS: It doesn't say	19	-
abnormal stress test. I didn't thick it did. 20 Q. Now, translate that into English for us,		abnormal stress test. I didn't thirk it did.	20	Q. Now, translate that into English for us,
21 BY MS. SPERANDO: 21 please.		21 BY MS. SPERANDO:	21	-
22 Q. What about the handwritten report? Why don't 22 A. Basically, there are two portions to a stress		22 Q. What about the handwritten report? Why don't	22	A. Basically, there are two portions to a stress
23 test. There is the electrocardiographic portion.	1	23 we take a look at that?	23	
24 A. Where is that? He had the stress test after 24 And there is the thallium, or Sestamibi imaging		24 A. Where is that? He had the stress test after	24	And there is the thallium, or Sestamibi imaging
25 he left the hospital. 25 portion, the nuclear imaging, portion.	<i></i>	25 he left the hospital.	25	portion, the nuclear imaging, portion.
Page 94 Page 96	()	Page 94		Page 96
1 Q. I am sure that there are handwritten 1 The electrocardiographic stress test depends	à	, i i i i i i i i i i i i i i i i i i i	1	8
2 MS. CARULAS: YOU wouldn't happen 2 on meeting criteria as we talked about before. But,	I	2 MS. CARULAS: YOU wouldn't happen	2	
3 to have those handy that you could show them 3 it also depends on a baseline electrocardiogram	,	3 to have those handy that you could show them	3	it also depends on a baseline electrocardiogram
4 to him? 4 being essentially normal. If your baseline		4 to him?	1	being essentially normal. If your baseline
5 MS. SPERANDO: I wish I did. All 5 electrocardiogram is abnormal, there is no way to			4	being essentially normal. If your busefine
6 I can tell you is that this is what Doctor 6 interpret ST changes accurately in the stress test.			4	
	4-11 Mar	6 I can tell you is that this is what Doctor		electrocardiogram is abnormal, there is no way to
	A4	 6 I can tell you is that this is what Doctor 7 Herskowitz said: The handwritten test report 		electrocardiogram is abnormal, there is no way to interpret ST changes accurately in the stress test.
	and a second second second	 6 I can tell you is that this is what Doctor 7 Herskowitz said: The handwritten test report 8 stated abnormal stress test. And he is 	6 7	electrocardiogram is abnormal, there is no way to interpret ST changes accurately in the stress test. Anyone that does clinical stress testing knows that definition by heart.
		 6 I can tell you is that this is what Doctor 7 Herskowitz said: The handwritten test report 8 stated abnormal stress test. And he is 9 putting that in quotation marks. I am 	6 7 8 9	electrocardiogram is abnormal, there is no way to interpret ST changes accurately in the stress test. Anyone that does clinical stress testing knows that definition by heart. Q. When they say, "abnormal baseline ECG," are
		 6 I can tell you is that this is what Doctor 7 Herskowitz said: The handwritten test report 8 stated abnormal stress test. And he is 9 putting that in quotation marks. I am 10 assuming he got that from somewhere. 	6 7 8 9	electrocardiogram is abnormal, there is no way to interpret ST changes accurately in the stress test.Anyone that does clinical stress testing knows that definition by heart.Q. When they say, "abnormal baseline ECG," are they referring to the ones on May 8 and 9?
5		 I can tell you is that this is what Doctor Herskowitz said: The handwritten test report stated abnormal stress test. And he is putting that in quotation marks. I am assuming he got that from somewhere. THE WIINESS: I certainly didn't 	6 7 8 9 10 11	electrocardiogram is abnormal, there is no way to interpret ST changes accurately in the stress test.Anyone that does clinical stress testing knows that definition by heart.Q. When they say, "abnormal baseline ECG," are they referring to the ones on May 8 and 9?A. No. They would be referring to exactly what
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		 I can tell you is that this is what Doctor Herskowitz said: The handwritten test report stated abnormal stress test. And he is putting that in quotation marks. I am assuming he got that from somewhere. THE WITNESS: I certainly didn't see that. And I <i>thirk</i> it would be unlikely to see handwritten notes on a stress test. It 	6 7 8 9 10 11 12 13	 electrocardiogram is abnormal, there is no way to interpret ST changes accurately in the stress test. Anyone that does clinical stress testing knows that definition by heart. Q. When they say, "abnormal baseline ECG," are they referring to the ones on May 8 and 9? A. No. They would be referring to exactly what was in front of them at the time of the stress test. In other words, a baseline electrocardiogram
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Page 93 - Page 96		 I can tell you is that this is what Doctor Herskowitz said: The handwritten test report stated abnormal stress test. And he is putting that in quotation marks. I am assuming he got that from somewhere. THE WITNESS: I certainly didn't see that. And I <i>thirk</i> it would be unlikely to see handwritten notes on a stress test. It would be unusual. I think that would be unusual to see a handwritten note about a stress test like this. BY MS. SPERANDO: Q. So, it is your understanding that there is no handwritten note that says, "abnormal stress test"? A. Correct. Q. He further goes on to say that the handwritten report stated, "Abnormal stress test. Above average 	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 electrocardiogram is abnormal, there is no way to interpret ST changes accurately in the stress test. Anyone that does clinical stress testing knows that definition by heart. Q. When they say, "abnormal baseline ECG," are they referring to the ones on May 8 and 9? A. No. They would be referring to exactly what was in front of them at the time of the stress test. In other words, a baseline electrocardiogram is done æ part of the stress test. MR. HUPP: It is this one, if you want to look at it. It is over there. BY MS. SPERANDO: Q. So, they are saying that that baseline of that test done on that day was abnormal? A. Yes. Q. And therefore, they could not interpret the significance of the exercise induced ST

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	Page 99 h With this abnormal baseline, you are one of the ST depressions meet that
2 A. His abnormal baseline is exactly what we have 2 saving that no	one of the ST depressions meet that
	-
	that correct?
	the baseline is abnormal, these
-	bnormality. If you took these in and
	s, it is virtually impossible to look at
	t looking at the baseline.
	be fair, then, to say that the EKG
	ress test was of no significance? The terminology would be that it is
	c. This is nondiagnostic because of
2 A. Well, that is a good question. It depends on 12 baseline abno	2018년 - 1978년 1979년 1978년 1978년 - 1987년 - 1978년 1972년 1971년 1971년 - 1971년 1972년 1978년 1978년 1978년 1971년 - 1971년 🚦 🚦
	may be or may not be myocardial
	t we can't tell that based on the EKG
5 millimeter of ST segment depression at point 08 15 portion of the	
	rocardiogram in and of itself the
	nterpretation is nondiagnostic.
	ny way that we can then redo that
9 (indicating). So, it has to be depressed at least 19 test or retake	it in order to have it be diagnostic
0 one millimeter and needs to be flat or downsloping. 20 in terms of d	letermining whether those ST depressions
1 Q. What was it in this case, with this abnormal 21 reflect myoca	ardial ischemia?
2 baseline? 22 A. From the	electrocardiographic standpoint,
	ray to change this test to make it
	istically speaking – to give you
5 defined as peak exercise – and he is looking at the 25 diagnostic ac	ccuracy.
Page 98	Page 100
	Mr. Peacock was seen by Doctor
· ·	And his blood pressure was 160 over 110.
	bo far different from the 168 over 116,
	two days earlier before he was given
	t. Is that fair to say?
6 recovery, which is part of the defiition of how6 A. Yes.7 people look-at these, they actually are all within7 Q. You would	ld not consider that to be under
8 normal limits. 8 control?	id not consider that to be under
9 Q. Are there any abnormal ST segments? 9 MR. HUPP	e: objection.
0 A. Well, they are abnormal at baseline. And they 10 THEWITN	0
	moderate hypertension.
2 Q. What is the significance of ST displacement? 12 BYMS. SPERA	
-	basis, doctor, in your report, do you
	tement that it was your understanding -
	g now to Page Two, the fourth full
6 criteria. In other words, a little bit of 16 paragraph, w	where you say it was your understanding
7 depression isn't enough to call it ischemia. So, 17 that Mr. Peac	cock's hypertension was aggressively
8 you have to meet the criteria. Those criteria 18 treated in the	e follow-up office visits after be was
	n the hospital, if you did not have the
	octor Boulware's visits?
	leposition from I believe it was
	r Biblo or Doctor Boulware – that
	ere asked about the treatment of the
	h, which implied that the medications had
25 consistent with ischemia. 25 been changed	d and attempts were made to control it Page 97 - Page 100

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	~~~~		reacock v. Univ. Hosp
	Page 101		Page
1	and that he had been seen relatively frequently.	1	general - that the higher the blood pressure, the
2	Q. Can you tell us, with a blood pressure of 140	2	greater the risk of precipitating a malignant
3	over 86 what Mr. Peacock's blood pressure. would have	3	arrhythmia or an ischemic event?
4	been – if it had started out at 140 over 86 what it	4	<b>A.</b> No, because blood pressure naturally has to go
5	would have been after two hours of vigorous tennis?	5	up with exercise. And where Mr. Peacock was doi
6	A. That would be almost impossible to say.	6	exercise – albeit singles tennis, not something
7	Again, I don't know how Mr. Peacock plays tennis.	7	extremely strenuous – the elevation of blood
8	And realizing it is $-$ singles tennis is only a	8	pressure that goes along with that would be
9	moderate activity compared to his stress test, I	9	expected. So, you would expect some elevation of
0	would say that I wouldn't expect it to be <b>as</b> high <b>as</b>		· · ·
	• • •	10	blood pressure. It is pretty clear that people who
1	-well, I don't know. I don't know what it is. I	11	do exercise elevate their blood pressure and that
2	thirk that's very hard to say.	12	that isn't always a <b>risk</b> for any event in and of
3	Q. I may have asked you this before, but I am not	13	itself.
4	sure. Do you have an opinion as to whether there is	14	Q. I am not talking about – I don't want to play
5	any relationship between – in a patient such as	15	semantics with you. I want to really be very
6	Mr. Peacock between the blood pressure and	16	definite about what I am asking here. I am not
7	ischemia or a malignant arrhythmia?	17	saying that it is always going to result in a
8	MR. HUPP: Objection. In	18	
9	terms of what? If you can answer it, go	19	
0	ahead; because I <b>thirk</b> that's a little broad,	20	I would assume just as a generalization that
1	THE WITNESS: I am not so sure	21	if a person with coronary artery disease is sitting
2	what you mean by "relationship." In other	22	down, not doing anything, that his risk of <b>a</b> sudder
3			
	words, if you want a hypothetical situation –	23	cardiac event is less than it would be if he were
4	BY MS. SPERANDO:	24	running a three-minute mile. So, I <b>am</b> simply asking
5	Q. In other words, is there any relationship	25	you with regard to high blood pressure if there is
	Page 102		Page
1	between the degree of blood pressure or the rate of	1	any relationship - the greater the blood pressure,
2	blood pressure and precipitating a malignant	2	the greater the risk of precipitating an event as we
3	arrhythmia or an ischemic event?	3	have described it.
4	A. I am not <i>sure</i> exactly what you <b>are asking</b> me.	4	A. The way you have asked it sounds as if you are
5	You are talking about specifically Mr. Peacock?	5	saying there might be <b>a</b> linear relationship in this
6	Q. Correct.	6	thing. And there is no linear relationship there in
7	A. And you are talking about whether his blood	7	terms of increased <b>risk.</b> In fact – and he
B	pressure precipitated <b>an</b> event?	8	demonstrated quite nicely that <b>he</b> did 12 mets of
3	Q. No. Can it? I mean, like the higher the	9	exercise on a very vigorous stress test and raised
	blood pressure — is there a correlation between		
)	1		his blood pressure to appropriately high level and
1	blood pressure in a person with his anatomical		performed quite nicely.
2	status and – a correlation between the blood	12	I don't thirk his raising his blood pressure
3	pressure and precipitating a <b>maligrant</b> arrhythmia or	13	to those levels that <b>he has</b> demonstrated capable of
4	an ischemic event?	14	doing in and of itself presents any risk to him. He
5	A. There could be. Again, it would depend	15	is doing six or seven mets of activity playing
5	specifically on whether you are hypothesizing that	16	tennis. He walked 12 mets on a treadmill. I don't
7	his blood pressure reached some malignant level.	17	thirk that you can correlate a blood pressure rise
8	Q. Well, then, that's basically the question. At	18	in one activity necessarily to another, But, I
	what point does an increase in blood pressure pose a	19	don't see the relationship, necessarily.
)	threat or a risk to precipitating a malignant	20	Q. Lam not asking you for necessarily a linear
1	arrhythmia or an ischemic event in a person with	21	relationship. And let us for the moment ignore the
^ >			the second se
4	Mr. Peacock's anatomical status?	22	stress test results. And let's focus specifically
3	A. There is no specific number that I could pin	23	on his anatomical status. In general, is it fair to
	that on.	24	say that a person with the anatomical status of
4		125	Mr. Peacock, which we have already described in
	Q. Well, would you agree in general - just in	<i></i>	

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and the second second

	n	J. M. Koch	Condens	selt ^{1M}	Peacock v. Univ. Hospitals
			Page 105		Page 107
	1	general that the higher the blood pressure, th	e	1 THE WITH	IESS: If you are looking
	2	greater the risk for a cardiac event?	1	2 at a gener	al risk factor of blood pressure
	3	MR. HUPP: objection. Asked		3 potentiall	y causing end-organ damage, i.e., a
)	4	and answered. Go ahead.		4 myocardi	al infarction cardiac event, there can
s'	5	THE WITNESS: Again, let me		5 be a relat	ionship. In people with malignant
	6	separate this a Little bit for you.		6 hypertens	ion, that's the definition. High
	7	If in general Mr. Peacock runs high blood		7 blood pre	ssure caused an event.
	8	pressures his entire life, is that	8	B However	in the general population, such as
	9	independently a <b>risk</b> for coronary artery	9	Mr. Peac	ock, even with his defined anatomy, I
	10	disease and the effects thereof? Yes. That	10		vare of any specific data, any
	11	is a well known fact.	11		any anecdotes, any patients of
	12	If you <b>are</b> asking me specifically is he at	12		b, because they exercised and got high
	13	risk of elevating his blood pressure doing a	ı  12		ssure specifically, had a cardiac
	14	specific event to a point where it presents a	1	1	<b>m</b> not sure you <b>are</b> getting <i>the</i>
	15	risk of a cardiac event – is that what you	1		bu <b>are</b> looking for.
	16	are asking?	10	•	e
	17	MS. CARULAS: I <b>am</b> going to	17		boiled down to the essence of your
1	18	object, because I thirk this exact same	18		legree of blood pressure has no
	19	question and answer <b>took</b> place about an ho	1	± '	o a sudden cardiac event in a person
	20	ago. I heard the exact same discussion abo	1	-	omical status of Mr. Peacock, whether
	21	chronically and one episode.	2		A MARINE TO THE STATE OF A STATE
	22	MR. MARTIN: The question has	22	and the second	t what I said. There is a level of
,	23	never been answered point blank.	23	the second se	pertension in anybody, if they are
	24	MR. HUPP: Yes, it has.		· · · · · · · · · · · · · · · · · · ·	aching it, at which it could cause a
	25	MS. SPERANDO: Let's just try and	í	5 myocardial e	
			4.	J myocarmar o	
2	<u> </u>				
			Page 106	19.7000	Page 108
	1	get the answer again.	Page 106	1 Q. And what	Page 108 is that level, sir?
		get the answer again. BYMS. SPERANDO:	Page 106	1 Q. And what 2 A. It is diffe	Page 108 is that level, sir? rent in everybody. And in
	1 2 3	get the answer again. BYMS. SPERANDO: Q. Specifically, with regard to correlation	Page 106	1 Q. And what 2 A. It is diffe 3 Mr. Peacock,	Page 108 is that level, sir?
	1 2 3	get the answer again. BYMS. SPERANDO: Q. Specifically, with regard to correlation between high blood pressure and a person with	Page 106	1 Q. And what 2 A. It is diffe 3 Mr. Peacock, 4 high.	Page 108 is that level, sir? rent in everybody. And in
	1 2 3 4 5	get the answer again. BYMS. SPERANDO: Q. Specifically, with regard to correlation between high blood pressure and a person with anatomical disease and precipitating a cardiac	Page 106	<ol> <li>Q. And what</li> <li>A. It is diffe</li> <li>Mr. Peacock,</li> <li>high.</li> <li>Q. Such as?</li> </ol>	Page 108 is that level, sir? rent in everybody. And in I would suggest that that is very, very
	1 2 3 4 5 6	get the answer again. BYMS. SPERANDO: Q. Specifically, with regard to correlation between high blood pressure and a person with anatomical disease and precipitating a cardiac event, is there any relationship whatsoever?	Page 106	<ol> <li>Q. And what</li> <li>A. It is diffe</li> <li>Mr. Peacock,</li> <li>high.</li> <li>Q. Such as?</li> <li>A. In general</li> </ol>	Page 108 is that level, sir? rent in everybody. And in I would suggest that that is very, very , I limit patients whose blood
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	1 2 3 4 5 6 7 8	get the answer again. BYMS. SPERANDO: Q. Specifically, with regard to correlation between high blood pressure and a person with anatomical disease and precipitating a cardiac event, is there any relationship whatsoever? A. Not that I am aware of. Q. So, you are not concerned whether his bloo	Page 106	<ol> <li>Q. And what</li> <li>A. It is diffe</li> <li>Mr. Peacock,</li> <li>high.</li> <li>Q. Such as?</li> <li>A. In general</li> <li>pressure reac</li> <li>Q. Do we kn</li> </ol>	Page 108 is that level, sir? rent in everybody. And in I would suggest that that is very, very , I limit patients whose blood hes 250 over 120. ow whether Mr. Peacock's blood
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	Page 109		Page 111
1	opinion within a reasonable degree of medical	1	that time?
2	probability as to what caused Mr. Peacock's death?	2	A. <b>Shook</b> his hand and said, "Nice to meet you."
3	A. I have read the coroner's report and the	3	Q. Have you ever attended any lectures he has
4	emergency room report. And I would say within a	4	given or
5	reasonable probability he had sudden cardiac death,	5	A. No.
6	probably arrhythmic.	6	Q. Do you know what Doctor Herskowitz's area of
7	Q. Cardiomegaly was noted, a heart weight of 540	7	specialty is?
8	grams on autopsy; is that right?	8	A. I honestly don't know a lot about him. But, I
	<b>A.</b> I believe that's <i>right</i> . I am reading from	9	know he works for this McSPI group, which is a
10		io	largely – as far as I know, a group of
11		111	anesthesiologists who do ischemia research on bypass
112	A. No. I don't know him.	12	surgery patients. I know that he works for them. I
	Q. Have you ever met him?	1	don't one hundred percent know his capacity. But, I
	A. No.		understand he is not – he doesn't do any surgery or
1	Q. Have you ever had any professional	15	anesthesia. He is a researcher or he is completely
1	relationship with him whatsoever?	16	
	A. None.	17	Q. Do you know what his reputation is in the
		10	field of cardiology?
18		10	
19	· · · ·	19	
20	1 5	20	published guy or <b>a</b> researcher, because that is the
21	and the second	:21	nature of that group. I understand he is a
22	A CONTRACTOR OF	22	cardiologist. I should say that. So, I don't know
23		23	that he does cardiology – or what he does cardiac
24	· [1]本 · · · · · · · · · · · · · · · · · · ·	24	wise. I don't know clinically what he does,
25	program. You are talking everybody involved as	25	frankly. 1 know that he does research.
	Page 110		Page 112
1	Q. Doctors Effron, Lesnefsky, Bodware, Biblo	1	Q. All right. Now, referring to Page Four of
2	<b>A.</b> No. I don't know any of those people.	2	Doctor Herskowitz's report, the third fill
3	Q. Since you have been retained in this case,	3	paragraph, can you tell me – he goes on to describe
	have you spoken to any of those physicians,	4	the findings of the coroner's report.
5	including Bodware and Biblo, with regard to this	5	Do you know how the coioner's findings were
6	matter?	6	different from what the physicians knew who were
7	A. No; never had any contact with any of those	7	taking care of Mr. Peacock prior to Mr. Peacock's
8	physicians *	8	death?
9	Q. Have you spoken With anyone other than	9	A. The coroner's <b>finding</b> , being this stuff before
10	Mr. Hupp with regard to this matter?	io	the slides, described several narrowings in the
11		11	coronary arteries that were 70 percent in the left
12		12	anterior descending – is that right? Let me go
13		13	back - left anterior descending coronary artery and
14		14	the right coronary <i>artery</i> showed focal distal
15		1	luminal <b>narrowing</b> of <b>70</b> percent, which was different
16		16	than what the catheterization would have implied.
17	when I was in Chicago. Let's see. It may have been	17	Q. What did the cath imply?
18		18	A. The catheterization implied that the left
19		19	
20	A. I was introduced to him. And he was at a		significant disease and that the right coronary
		20	는 동구, 2012년 2월
21	meeting. And my wife was at a meeting, the same	21	artery had several 40 percent narrowings. And then
22		22	in the circumflex coronary artery it says focal
23	group I met in Chicago. He was there. My wife is a	23	distal narrowing of 90 percent, which would be
24		24	relatively consistent with what was shown on the
25	Q. And did you have any conversation with him at	:25	cathreport.

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	μr.	J. IVI. NOCH	Conden	se	It Peacock v. Univ. Hospitals
		P	age 113		Page 115
	1	Q. Any other differences?	-	1	"that is most likely a consequence of
	2	A. Certainly, a thickness of 1.8 centimeters			longstanding hypertension." Do you agree with that?
	3	anteriorally and 2.5 centimeters at the septum is			A. I am losing you here. Show me where it talks
Ŋ.	4	different from the reported thicknesses by		4	about scarring.
y	5	echocardiography.		5	Q. Paragraph Four.
	6	Q. In what way?			A. Paragraph Four.
	7	A. I <i>think</i> we showed that the echo indicated that	ıt		Q. And the second sentence: "There is a moderate
	8	the thickness of the posterior wall was 1.6			degree of interstitial fibrosis"
	9	centimeters, and that the septum was actually 1.4	1 I	9	Do you see that?
	10	centimeters.	1	0	A. Okay.
	11	Q. Were the differences between what was show	n on 🛛 🔒	1	Q. "or scarring." And then he makes the
	12	autopsy versus what the physicians who treated	1		conclusion that it is most likely a consequence of
	13	Mr. Peacock knew at the time they were treating	him 1		longstanding hypertension.
	14	were they in any way significant in terms of h		4	Do you agree with that?
	1	you believe Mr. Peacock should have been treate		5	A. Again, it is not an area of expertise. But,
	16	MR. HUPP: objection.			it is not necessarily my understanding that
	Ť	BY MS. SPERANDO:			longstanding hypertension causes what you would by
	18	Q. Do you understand the question?	1		lay terms call scarring. Certainly, myofibrullar
	19	A. Go ahead and restate,			disarray and other myocardial fibrillar changes can
	20	Q. If the physicians who were treating him knew			take place with hypertension. But, I am not aware
	21	what the coroner knew on autopsy, do you <i>think</i>			that this is what he is talking about.
	22	that should have changed <b>their</b> treatment of him	1		Q. Well, he makes the conclusion that the
	23	terms of a proscription with regard to vigorous	1.		interstitial fibrosis was <b>a</b> consequence of
	1	exercise such as tennis?	1		longstanding hypertension. You don't agree with
	25	MR, HUPP: objection.			that?
3	<b>[</b> —	~			
	1	Relevancy.	age 114	1	Page 116 A. I don't know that that is true or untrue.
ar an	2	MS. CARULAS: objection.			Q. He then talks about his microscopic findings.
	3	THE WITNESS: No. I don't think			Assuming that they are true, he then makes a
	4	S0.			conclusion which at the fourth line up from the
	1	BY MS. SPERANDO:			bottom of paragraph four his conclusion is as
		Q. Okay. Do you <i>agree</i> with what Doctor			follows: "These microscopic findings represent
	6	Herskowitz has said in Paragraph Two regarding	1		clear evidence that Mr. Peacock suffered small
	6	slides, Page Fou?	,ue		CDMSERSAGE And and the set of
	8	A. I didn't review the slides. And I haven't			amounts of permanent myocardial damage over an
	9	seen anybody else review them.			extended period of time "
	10			0	Assuming that his microscopic findings, which
	11	Q. So, with regard to his findings, he says,			as I understand it you cannot comment on, are
	12	"Both of these findings are unusual and are			correct, do you agree with his conclusion that they
	13	consistent with arterial <b>injury</b> patterns seen in			represent clear evidence that Mr. Peacock suffered
	14	malignant hypertension."	1	100.00	small amounts of permanent myocardial damage over an
	15	Do you agree with that statement, assuming h	1		extended period of time?
	16	findings <b>are</b> correct?	1		MR. HUPP: objection.
	17	A. I don't know. I am really not an expert in	1		THE WITNESS: I don't know.
	18	that area.			BY MS. SPERANDO:
	19	Q. Okay. Now, with regard to the next page,	1		Q: Okay. Do you agree or disagree with his
	20	assuming that there <b>was</b> , in fact Paragraph Fou	ł		conclusion that, "The more recent myocytolytic
Y	21	I <b>an</b> referring to the second sentence <b>–</b> Doctor	2		lesions are consistent with the clinical findings of
al al	22	Herskowitz notes: "There is a moderate degree of	1		a non-Q wave MI approximately three weeks prior to
S)	23	interstitial fibrosis, or scarring"			his death"?
	24	Assuming that that <b>was</b> , in fact, <b>correct</b> , do	1		A. Again, I would have to review these slides
				-	
	25	you agree with his conclusion, which is as follow	VS: 2	2	with a pathologist and look at the whole thing Page 113-Page 116

. Na katalah katalak kata

	r. J. M. Koch	Conde	selt	M Peacock v. Univ. Hospitals
	P	age 117		Page 119
	1 clinically to tell you what <b>was</b> there and what it		1	Do you agree that he suffered ischemia induced
	2 means. Under this circumstance, I have no opin	ion	2 ta	chyarrhythmia and syncope on 5/8/94.
	3 about whether that is correct, incorrect, or		3	MR. HUPP: And the Q wave?
	4 consistent.			Y MS. SPERANDO:
	5 Q. Okay. If he did have myocytolytic lesions,			He definitely disagrees with the non-Q wave.
	6 assuming that he did, would they be consistent v	vith		Do I think he suffered ischemia induced
	7 a non-Q wave MI?			chyarrhythmia and -
	8 A. Basically, myocardial infarction equals			And syncope. We will start with the suffered
	9 myocytolytic lesions. They are the same words,		9 is	chemia induced tachyarrhythmia.
	0 basically. So, I suppose those are consistent.		0 A.	I disagree.
	1 Q. Okay. Doctor Herskowitz concluded that		1 Q.	Why do you disagree?
	2 Mr. Peacock, number one, had severe coronary a	urtery	1	Number one, I have no evidence he had a
	3 disease. Agree or disagree?		3 ta	chyarrhythmia at all on 5/8/94. Number two, I
	4 A. I disagree with that.		4 do	on't have any evidence of ischemia. In fact, I
	5 Q. How would you define his coronary artery	5	5 ha	we evidence by stress testing that he didn't have
	6 disease?		6 iso	chemia when he was pushed to the upper limits of
	7 A. I would define his coronary artery disease as		7 hi	s exercise capability.
	8 mild to moderate disease, again realizing that the	e	8	And, certainly, singles tennis is about half
	9 definition is not just pathologic, not just		9 th	at strenuous. I would say very likely he did not
	0 anatomic, i.e., catheterizations, but also		20 ha	we ischemia at that level of exercise.
	1 clinical. And I would say that he had some evid	lence	21 Q.	What in your opinion to a reasonable degree of
	22 of my conclusion is he had mild coronary arte	ry	22 m	edical probability caused the arrhythmia on the day
	23 disease.		23 of	his death?
	4 Q. Focusing strictly on the anatomic coronary		24 A.	On later 5/29?
	5 artery disease, how would you describe it?		25 Q.	Yes, sir.
	P	age 118		Page 120
	1 A. Focusing on what?	U	1 A.	Likely the cause of his death is sudden death
	2 Q. Anatomic coronary disease -		1	arrhthmiagenic.
	3 MR. HUPP: You are saying		3	What caused it? That's a good question.
	4 after death, now?		4 Th	here are a lot of possibilities: Where he had,
	5 BY MS. SPERANDO:		1	pain, a stress test that didn't show me ischemia, I
	6 <i>Q</i> . Yes.		6 do	on't think it is ischemia. I <b>am</b> at a bit of a loss
ļ	7 A. That is pathologic. That is not anatomic.		7 to	tell you specifically what it could be.
	8 Q. Okay. Pathologic.		8 Q.	So, given everything that you know, including
	9 A. I would say he had moderate disease. That i	S	9 fr	om the autopsy, you cannot tell the jury within a
	10 clearly not severe disease.		10 re	asonable degree of medical probability what caused
	11 Q. He concluded that Mr. Peacock had severe		11 th	e arrhythmia which caused his death?
	12 hypertension with end-organ injury. Agree or	na maga Tangka	12 A.	Right. Again, I haven't looked at these
	13 disagree?		113 sl	ides. And I certainly haven't looked at them with
	14 A. I disagree.		14 th	e aid of an expert, someone who looks at slides
	15 Q. I thought you agreed with that.		15 ar	nd <i>can</i> help me interpret the clinical scenario.
	16 A. Severe hypertension has a defiition. It		116 TI	hat might be of some help.
	17 includes a diastolic blood pressure in the range of	of	17	On <b>the</b> other hand, I don't see any
	18 120. He has hypertension with end-organ injury		18 de	emonstration certainly, by his description,
	19 Q. You would disagree with the severe part?		1	here is no acute thrombus in the blood vessels.
	20 A. Yes. That's a defied term. And that define	es	20 T	hat would be the definition of an ischemic event.
	21 a level of hypertension that I don't think has been		21 T	hat is clearly not here. So, I would have to tell
Ì	12 demonstrated here.		1 10	ou I don't see ischemia in what he has even shown
)	23 Q. Number three, you disagree that he suffered	a		e here even with the slides.
	24 non-Q wave MI on 5/8. We have already gone th		1 1 1 1 1 1	Okay. What is the differential with regard to
	25 that.			e possible causes of an arrhythmia on 5/29?
	L		1	Page 117 - Page 120

	1	D 121	T	
	Ι.	Page 121	1	Page 123
		A. Certainly, he is a guy who has left		there are a couple of pretty good syncope studies.
	2	ventricular hypertrophy, so he does run some	2	And I know they were put together <b>as</b> a Med
	3	elevated risk of arrhythmia, because he has left	3	analysis. In that analysis, certainly, age factored
à	4	ventricular hypertrophy. Ischemia is in the	4	into the statistical probability that arrhythmia was
7	3	differential. I don't think that is what caused	5	at work.
	6	this, but it is in the differential.	6	And so, based on age, plus the fact that this
	7	Again, a neurocardiogenic event could certainly have taken place. And occasionally, they		guy was a vigorously exercising patient with no symptoms, I would have to say that statistically the
	8		0	
	9	do have fatal consequences. He is taking medications. I don't know, again, his entire	9	probability is <b>quite</b> low, The patient is under 70 years old, if I am remembering correctly.
	10	response to those, because we-don't know whether he	10 11	Q. I am not talking about the general population
	.11 .12	has taken them or not on his exercise test. I'm not	12	or people in general. I am talking about this
	1	one hundred percent certain what could cause it.	13	patient, with his anatomic and pathologic disease,
	.13 .14	Q. Okay. Out of all of the potential causes that	13	what is the statistical likelihood of his having
	115	you have outlined for us, what do you believe was	15	suffered the syncope <b>as</b> the result of an arrhythmia?
	115 116	the most likely?	16	MS. CARULAS: objection.
	117	A. In his case, I have to think he had an	17	THE WITNESS: It is the same low
	118	arrhythmia somehow related to left ventricular.	18	probability. This is an asymptomatic guy.
	119	hypertrophy or other idiopathic, unknown conduction	19	BY MS. SPERANDO:
	:20	disease – again, that is not predictable from the	20	Q. And if you could give me the names of the
	:21	vast amount of testing he had.	21	articles to which you are referring that would
	22	Q. With regard to the syncopal event, what is <i>the</i>	22	support that.
	:23	degree of likelihood that it was caused by an	23	A. Right offhand, I don't know that.
	:24	arrhythmia?	24	Q. Can you tell that to your attorney after you
	:25	A. The degree of likelihood – which one, the	25	get back to your office?
3		Page 177	1	Page 1/41
) <b>\</b>	1	Page 122 first one?	•	Page 124 A. Sure.
)	1 2	first one?	•	A. Sure.
)	2	first one? Q. The syncopal event; c o m t.	•	<ul><li>A. Sure.</li><li>Q. Is what you are saying then as I understand</li></ul>
)	2 3	<ul><li>first one?</li><li>Q. The syncopal event; c o m t.</li><li>A. In general, with young patients, the</li></ul>	1 2 3	A. Sure.
)	2 3 4	first one? Q. The syncopal event; c o m t.	1 2 3 4	<ul><li>A. Sure.</li><li>Q. Is what you are saying then as I understand you that it is your opinion within a reasonable</li></ul>
)	2 3 4 5	<ul><li>first one?</li><li>Q. The syncopal event; c o m t.</li><li>A. In general, with young patients, the probability that a syncopal event is arrhythmic is prettylow.</li></ul>	1 2 3 4	<ul> <li>A. Sure.</li> <li>Q. Is what you are saying then as I understand you that it is your opinion within a reasonable degree of medical probability that Mr. Peacock</li> </ul>
)	2 3 4 5	<ul><li>first one?</li><li>Q. The syncopal event; c o m t.</li><li>A. In general, with young patients, the probability that a syncopal event is arrhythmic is</li></ul>	1 2 3 4	<ul> <li>A. Sure.</li> <li>Q. Is what you are saying then as I understand you that it is your opinion within a reasonable degree of medical probability that Mr. Peacock suffered a syncopal event on May 8 as a result of a</li> </ul>
)	2 3 4 5 6	<ul> <li>first one?</li> <li>Q. The syncopal event; c o m t.</li> <li>A. In general, with young patients, the probability that a syncopal event is arrhythmic is prettylow.</li> <li>Q. I am talking about this young patient with his</li> </ul>	1 2 3 4 5 6	<ul> <li>A. Sure.</li> <li>Q. Is what you are saying then as I understand you that it is your opinion within a reasonable degree of medical probability that Mr. Peacock suffered a syncopal event on May 8 as a result of a vasovagal reflex and then within a reasonable degree</li> </ul>
)	2 3 4 5 6	<ul> <li>first one?</li> <li>Q. The syncopal event; c o m t.</li> <li>A. In general, with young patients, the probability that a syncopal event is arrhythmic is prettylow.</li> <li>Q. I am talking about this young patient with his degree of disease.</li> </ul>	1 2 3 4 5 6 7	<ul> <li>A. Sure.</li> <li>Q. Is what you are saying then as I understand you that it is your opinion within a reasonable degree of medical probability that Mr. Peacock suffered a syncopal event on May 8 as a result of a vasovagal reflex and then within a reasonable degree of medical probability, suffered a sudden death on</li> </ul>
	2 3 4 5 6 7 8	<ul> <li>first one?</li> <li>Q. The syncopal event; c o m t.</li> <li>A. In general, with young patients, the probability that a syncopal event is arrhythmic is prettylow.</li> <li>Q. I am talking about this young patient with his degree of disease.</li> <li>A. Yes. Again, arrhythmia is quite low.</li> <li>Certainly, none was documented. Certainly, he recovered without any maneuver to change a rhythm.</li> </ul>	1 2 3 4 5 6 7 8	<ul> <li>A. Sure.</li> <li>Q. Is what you are saying then as I understand you that it is your opinion within a reasonable degree of medical probability that Mr. Peacock suffered a syncopal event on May 8 as a result of a vasovagal reflex and then within a reasonable degree of medical probability, suffered a sudden death on May 29 as a result of a malignant arrhythmia?</li> <li>A. That is as best as I can put that together.</li> <li>Q. Does that make sense to you, doctor?</li> </ul>
	2 3 4 5 6 7 8 9	<ul> <li>first one?</li> <li>Q. The syncopal event; c o m t.</li> <li>A. In general, with young patients, the probability that a syncopal event is arrhythmic is prettylow.</li> <li>Q. I am talking about this young patient with his degree of disease.</li> <li>A. Yes. Again, arrhythmia is quite low.</li> <li>Certainly, none was documented. Certainly, he recovered without any maneuver to change a rhythm.</li> <li>He didn't get shocked. He didn't have any other</li> </ul>	1 2 3 4 5 6 7 8 9	<ul> <li>A. Sure.</li> <li>Q. Is what you are saying then as I understand you that it is your opinion within a reasonable degree of medical probability that Mr. Peacock suffered a syncopal event on May 8 as a result of a vasovagal reflex and then within a reasonable degree of medical probability, suffered a sudden death on May 29 as a result of a malignant arrhythmia?</li> <li>A. That is as best as I can put that together.</li> <li>Q. Does that make sense to you, doctor? MR. HUPP: objection.</li> </ul>
	2 3 4 5 6 7 8 9 10	<ul> <li>first one?</li> <li>Q. The syncopal event; c o m t.</li> <li>A. In general, with young patients, the probability that a syncopal event is arrhythmic is prettylow.</li> <li>Q. I am talking about this young patient with his degree of disease.</li> <li>A. Yes. Again, arrhythmia is quite low.</li> <li>Certainly, none was documented. Certainly, he recovered without any maneuver to change a rhythm.</li> </ul>	1 2 3 4 5 6 7 8 9 10	<ul> <li>A. Sure.</li> <li>Q. Is what you are saying then as I understand you that it is your opinion within a reasonable degree of medical probability that Mr. Peacock suffered a syncopal event on May 8 as a result of a vasovagal reflex and then within a reasonable degree of medical probability, suffered a sudden death on May 29 as a result of a malignant arrhythmia?</li> <li>A. That is as best as I can put that together.</li> <li>Q. Does that make sense to you, doctor? MR. HUPP: objection. THE WITNESS: He died from one</li> </ul>
	2 3 4 5 6 7 8 9 10 11	<ul> <li>first one?</li> <li>Q. The syncopal event; c o m t.</li> <li>A. In general, with young patients, the probability that a syncopal event is arrhythmic is prettylow.</li> <li>Q. I am talking about this young patient with his degree of disease.</li> <li>A. Yes. Again, arrhythmia is quite low.</li> <li>Certainly, none was documented. Certainly, he recovered without any maneuver to change a rhythm.</li> <li>He didn't get shocked. He didn't have any other</li> </ul>	1 2 3 4 5 6 7 8 9 10 11	<ul> <li>A. Sure.</li> <li>Q. Is what you are saying then as I understand you that it is your opinion within a reasonable degree of medical probability that Mr. Peacock suffered a syncopal event on May 8 as a result of a vasovagal reflex and then within a reasonable degree of medical probability, suffered a sudden death on May 29 as a result of a malignant arrhythmia?</li> <li>A. That is as best as I can put that together.</li> <li>Q. Does that make sense to you, doctor? MR. HUPP: objection.</li> </ul>
	2 3 4 5 6 7 8 9 10 11 12	<ul> <li>first one?</li> <li>Q. The syncopal event; c o m t.</li> <li>A. In general, with young patients, the probability that a syncopal event is arrhythmic is prettylow.</li> <li>Q. I am talking about this young patient with his degree of disease.</li> <li>A. Yes. Again, arrhythmia is quite low.</li> <li>Certainly, none was documented. Certainly, he recovered without any maneuver to change a rhythm.</li> <li>He didn't get shocked. He didn't have any other event to help him overcome that. So, I would say</li> </ul>	1 2 3 4 5 6 7 8 9 10 11 12	<ul> <li>A. Sure.</li> <li>Q. Is what you are saying then as I understand you that it is your opinion within a reasonable degree of medical probability that Mr. Peacock suffered a syncopal event on May 8 as a result of a vasovagal reflex and then within a reasonable degree of medical probability, suffered a sudden death on May 29 as a result of a malignant arrhythmia?</li> <li>A. That is as best as I can put that together.</li> <li>Q. Does that make sense to you, doctor? MR. HUPP: objection. THE WITNESS: He died from one</li> </ul>
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		Page 12:	Page 127
	1	events, playing tennis, have on your opinion?	1 it clearly related to the first? I have no evidence
	2	A. Well, intuitively, you would say, well, he is	2 of that.
	3	exercising and had events. But, when you look at	3 I have to answer you scientifically, not
	4	the evidence and you weigh the evidence of what	4 intuitively. And scientifically, I have no evidence
	5	happened there, I can't put those two together as	5 of that event being related. Does that make sense?
	6	related events, necessarily.	6 Q. No, it doesn't, quite frankly.
	7	Q. Doctor, are you saying come on. Are you	7 MR. HUPP: Let's not get
	8	saying that a man with this kind of left ventricular	8 argumentative here.
	9	disease, coronary artery disease, who happens to be	9 BY MS. SPERANDO:
	0	playing tennis on May 8, faints as a result of a	10 Q. Pathophysiologically, what causes someone to
	1	vasovagal reflex, having nothing to do with his	1 faint, assuming it is an arrhythmia, is the same
	2	heart, and then three weeks later happens to drop	12 thing that is causing someone to die, assuming it is
	3	dead while playing tennis as a result of a cardiac	13 an arrhythmia – is it not?
	4	event, and it is simply a coincidence that it is	14 A. Number one, you have assumed it is an
	5	three weeks later? There is no connection?	15 arrhythmia. That's a pretty bad assumption.
	6	A. Number one, I don't know whether there is a	16 Q. I <b>am</b> asking you to assume that it is an
	7	coincidence or not. I don't know that they are	17 arrhythmia. The bottom line is, an arrhythmia can
	8	related.	8 cause someone to faint and not to die, correct?
	9	But, I have found no connection. The fact	19 A. That can happen.
	0	that he dies three weeks later, the fact that he had	10 Q. Okay. Now, freeze frame the action right
	1	an event three weeks later – whether it was	1 there. If someone has an arrhythmia which causes
	2	precipitated by – and caused his death was clearly	2 him to faint, what is happening under those
	3	different then the event that was precipitated three	23 circumstances versus the basically same arrhythmia
	4	weeks earlier, because he didn't die three weeks	4 that is causing him to die?
	5	earlier. There is clearly a difference.	25 Why under <b>certain</b> circumstances — in other
		Page 126	e e
	1	I know you are trying to show me that there is	1 words, physiologically, what is happening to the
	2	I know you are trying to show me that there is <b>a</b> similarity. But, I thick you have to appreciate	<ol> <li>words, physiologically, what is happening to the</li> <li>heart that under the first scenario he just faints</li> </ol>
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Dr	. J. M. Koch	Condens	eIt™	Peacock v. Univ. Hospitals
		Page 129		Page 131
1	A. I understand what you are saying.	1	BY MS.	SPERANDO:
2	Q. Let's just focus on what I asked you, docto	or. 2	Q. So,	then, is it fair to say that if
3	Do you understand the question?	3	Mr. Pea	acock had been exercising under a monitored
4	A. I think so.	4	conditi	on and had experienced <b>the</b> same arrhythmia
5	MR. HUPP He answered the	5	that you	u believe he experienced immediately prior to
6	question.	6	his dear	th, that if there had been monitoring and
7	THE WITNESS: You asked me if	7	interve	ntion, that there was a likelihood that he
8	MR. HUPP Let's reask it.	8	could h	ave been revived?
9	Let's be fair. Go ahead.	9	MR.	HUPP: objection.
10		10	THE	EWITNESS: Number one, I am
11	Thereupon, a previous question	11	not	so sure he had an arrhythmia. I <b>an</b> saying
12	was read back by the court	12	that	, statistically speaking, a patient that
13	reporter.	13	sho	ws up like Mr. Peacock, dead in emergency
14	000	14	rooi	n, probably had arrhythmia.
.15	MR. HUPP: Now, he just	15	lf h	e had an arrhythmia like that and he were
.16	answered that. There was an answer to that	t 16	und	er monitored conditions, there is some
17	question.	17	cha	nce that you would revive him.
.18	MS. SPERANDO: I didn't understand	18	Stat	istically speaking, it is not 50/50, but
:19	it as being responsive.	19	at le	east you have a chance.
:20	MR. HUPP First of all, was	20	BY MS.	SPERANDO:
:21	there an answer to that question?	21	Q. Oka	y. Let's please continue With Doctor
22	(Brief interruption.)	22	Hersko	witz's report. We are on Page 5
:23	MR. HUPP There was an answer	23	THE	WITNESS: one break, red
:24	to that question? Then I object. It has been	1 24	quic	ck.
25	asked and answered. I don't know if you c	an 25	MR.	HUPP: okay.
		Page 130		Page 132
	make your answer any clearer, but go ahead	-		
2	THE WITNESS: I think I know	2		Thereupon, a brief recess
3	where you are coming from with this.	3		was taken off the record.
4	If someone has an arrhythmia that they dor	n't 4		000
5	die from, that they actually do recover from		BY MS.	SPERANDO:
6	in general, that requires some manipulation		Q. In the	he last paragraph on Page 5, doctor, the
7	do that ;-'electric <b>shock</b> , some sort of	7	first set	ntence, it says, "Mr. Peacock's clinical
8	pacing, or something – a maneuver. And	8	present	ation on 5/8/94 was likely caused by the
9	that's the difference, generally, between	9	-	nt occlusion or severe stenosis of his right
10	dying and not dying.	10	CA prec	cipitated by a plaque rupture."
11	If someone has an arrhythmia that they pass	s  11	Do	you agree or disagree with that?
12	out from, that they are syncopal from, and	1	A. I dis	sagree with that.
13	nothing is done about it, as in, you know,	13	Q. Bec	ause?
14	your first hypothesis, they are probably goi	ng 14	A. cert	ainly, again, I haven't looked at the
15	to die.	15		But, he describes this athrosclerotic
16	Now, you are asking me are these events	16	plaque	in the RCA that shows a healing clot. That
17	related? Or are they likely related? What l	[ 17		clot is certainly part of coronary artery
18	am telling you is I have no evidence that the		-	, but doesn't necessarily cause ischemia when
19	are likely related. Intuition is a lousy way	- 19	it ruptu	res. It certainly can. Andthat's
20	to tell me that they are related.	20	certainl	y a <b>high</b> possibility.
21	And I have to tell you that death and synco	pe 21	But	, again, there is no evidence that he had a
22	are not the same thing. Sudden death and	22		rdial infarction or evidence of ischemia.
23	syncope are not the same thing, either. And	1 23	•	s rupture pretty frequently in people and
24	sometimes I think that is a little confused	24	-	ause heart attacks and don't cause events,
25	here.	25		So, I don't know how – that's a real
L	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1		Page 129 - Page 132

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		Page 13:		Page 135
	-	stretch, without any evidence.	1	A. I would have to go over those slides myself
	2	Q. So, basically, your opinion, then, is based on	2	with a pathologist to know.
}	3	that fact that these CPK enzymes and MB bands do	3	Q. So, you have no opinion on that?
	4	not, in your opinion, reflect ischemia?	4	A. No opinion.
	5	A. Correct. And he certainly didn't have any	5	Q. We have discussed the rest of that. Okay.
	6	typical symptoms of ischemia. Syncope is not a	6	He says, "It should be noted that both the
	7	typical symptom of ischemia.	7	echocardiogram and the left ventriculogram were
	8	Q. But, it is fair to say that a syncopal episode	8	performed one and two days, respectively, after
	9	can very well be caused by ischemia without showing	9	hospital admission."
	0	those, quote, unquote, typical signs and symptoms of	10	Do you agree with that?
	1	ischemia; isn't that right?	11	A. It looks like that's when they were
	2	A. That would be pretty unusual to do that.	12	performed. Yes. I didn't date them.
	3	Q. But, it is possible?	13	Q. And then the conclusion: "And, therefore, if
	4	MR. HUPP: objection.	14	transient wall motion abnormalities were present on
	5	MS. CARULAS: objection.	15	the first day of admission, they would have been
	6	BY MS. SPERANDO:	16	missed."
i	7	Q. Or are you saying it is not possible?	17	A. It's possible that if transient wall motion
	8	A. I haven't Seen it, but –	18	abnormalities were there, they may not be there two
	9	Q. The question is, is it possible to have a	19	or three days later. That's possible, if they were
	0	syncopal episode based on ischemia without the	20	ever there.
	1	typical signs and symptoms of ischemia preceding it?	21	Q. The second sentence: "Based on the autopsy
	2	MS. CARULAS: objection.	2!	findings, the nuclear stress imaging results, which
	3	MR. HUPP: objection.	23	revealed," quote, a small persistent perfusion
	4	THE WITNESS: I would guess that	24	defect in the inferior segment on the short axis
	5	it is.	25	images,' unquote, according to Doctor Herskowitz,
2		Page 134		Page 136
	1	BY MS. SPERANDO:	1	"may reflect true injury in the inferior wall,
	2	Q. Second sentence. I take it you disagree with	2	rather than the artifact of diaphragmatic
	3	that: "The ischemia which ensued triggered an	3	attenuation noted in the report." Agree or agree?
	4	episode of ventricular tachycardia, causing sudden	4	A. It is unlikely. And the reason is quite
	5	syncope."	5	simply – and again, where somebody looks at – as
	6	You disagree With the third sentence, I take	6	somebody who does this frequently, reads these sort
	7	it; is that right: "Upon clinical investigation"	7	of tests frequently – we know that the finding of a
	8	we have already gone through that?	8	defect in one set of images is not consistent is
	9	A. Right.	9	not diagnostic for anything and that it is very
	0	Q. "The clot in the RCA, if it ever completely	10	unlikely that that represents injury. Much more
	1	occluded the vessel, likely spontaneously lysed,	11	likely that it is diaphragmatic attenuation.
	2	allowing the heart muscle to be reperfused,	12	Q. It is possible that it reflects true injury in
	3	precluding the development of a large transmural	13	the inferior wall?
	4	inferior wall MI."	14	MS. CARULAS: objection.
	5	A. I mean, it is an interesting statement,	15	MR. HUPP: objection.
	6	because right there he admits there is no evidence	16	THE WITNESS: within the limits
	7	that it ever completely occluded the vessel. And,	17	of the test?
	8	on the basis of an isolated plaque rupture, to draw	18	BY MS. SPERANDO:
	9	the conclusions that are drawn here of ischemia,	19	Q. Yes, sir.
	0	clinical scenario, is a real stretch. So, I would	20	A. The test – that finding doesn't reflect
	1	not say I would say that the word "likely" is	21	injury. Could there be injury there that you don't
	2	completely out of bounds there.	22	see?
1	3	Q. Do you believe that Mr. Peacock suffered	23	Q. I am talking about what he is refemng to.
	4	microscopic heart muscle <b>cell</b> injury evident at	24	Let's just focus in on his opinion. I would like to
	5	autopsy?	25	know whether you agree or disagree.
L			L	Page 133 - Page 136

	I	Page 137		Dogo 120	
	1	So, he is talking about – "a small persistent		Page 139 plaque within the vessel lumen, the surface of the	1
	2	perfusion defect in the inferior segment on the		plaque rupture develops a clot which begins to build	
	2	short axis images may reflect true <b>injury</b> in the	3	and further encroach on the lumen."	
	4	inferior wall."	4	Agree or disagree?	
5	5	Is it possible that that is, in fact, what	5	A. In general, that's <b>the</b> theory behind	
		occurred?	6		
	7	MR. HUPP: objection.	7	Q. Next sentence: "In the setting of extreme	
	8	THE WITNESS: YOU are asking me	8	exercise, acute ischemia may ensue even if the	
	9	to change the definition of a test. The	9	vessel does not completely occlude."	
	0	definition this is a test. How you	0	Agree or disagree?	
	1	interpret the possibilities beyond that test	1	A. It can, but that is less likely. But, that's	
	2	are different than what you are asking me.		right. You can still have ischemia.	
	3	This test does not reflect any true injury to	3		
	4	the inferior wall. The possibility that there	4	vessel may either transiently occlude the vessel and	
	5	is injury there – is that what you are	5	then spontaneously reopen or completely occlude the	
	6	asking?	6	vessel and cause a large, transmural MI."	
	7	BY MS. SPERANDO:	7	Agreeordisagree?	
	8	Q. Yes.	8	A. In general, in patients who have an MI, that	
	9	A. Is there possibly injury there? In any stress	9	can happen, although a complete occlusion of the	
	10	test it is possible that there is injury somewhere	20	vessel doesn't necessarily cause large transmural	
	!1	that is not reflected by the image. In this test,	21		
	:2	though, as defined, the answer is no. See, he has	2:	Q. Going not to the next sentence, but the	
	!3	changed the definition of the test here.	:3	sentence after that: "Finding only a 40 to 50	
	!4	Q. We have already discussed the second paragraph	!4	percent lesion in the posterolateral branches of the	
	!5	where he says his death was likely due to ischemia	25	RCA at eath is entirely consistent with the autopsy	
) 1					-
,		Page 138		Page 140	)
	1	precipitated by rigorous exercise.		findings of a healing thrombus."	)
	1 2	precipitated by rigorous exercise. It is your opinion that the arrhythmia was not	1 2	findings of a healing thrombus." Agreeordisagree?	)
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	и.	J. 141. D.U.G.L	Conden	1SC.	It Peacock v. Univ. Hospitals
		P	age 141		Page 143
	1	Agreeordisagree?		1	A. Would I put any – no. I think moderate
	2	A. Well, Mr. Peacock was only under Doctor			activity like that is fine for him after that kind
	3	Boulware's care for internittent periods. And		3	of stress test.
6	4	during those times, he worked hard to control that	at	4	Q. Especially in view of the fact that he was
7	5	blood pressure. "Significant length of time," I		5	told by his physicians that he could engage in that
	6	have trouble with, because I am not so sure		6	kind of activity, correct?
	7	Mr. Peacock followed up with Doctor Bodware	for a	7	MR. HUPP: objection.
	8	significant length of time,		8	THE WITNESS: From Doctor
	9	Q. Well, you do know that he was seeing him free	om	9	Boulware's testimony, I don't have the idea
	io	what, '86 to '88?	1	10	that he was specifically told he could do
	11	A. Yes.	L	11	that. However, what I would say is that,
	12	Q. And then from '93 to '94?	1	12	again, tennis is considered a moderately
	13	A. So, he had five years in there where he didn't		13	vigorous activity which runs about six mets.
	14	see him. And '93 to '94 is a fairly short period of	of l	14	This is a guy who exercised to 12 mets. I
	15	time.	L	15	would certainly have no trouble telling him
	16	Q. Okay. During the periods of t h e that		16	that that was an okay activity.
	17	Mr. Peacock was seeing Doctor Boulware, did he	e have		BY MS. SPERANDO:
	18	his blood pressure under control?			Q. "Even during his hospitalization from 5/8 to
	19	<b>A.</b> For those short periods of time, it was under	L	19	5/11/94, <b>he</b> required multiple and repeated doses of
	20	control only several times – at several sporadic	2	20	antihypertensives following his cardiac
	21	visits.	2	21	catheterization to control his hypertension and was
	22	Q. So, would you agree, then, while receiving			discharged with a <b>regimen</b> that was found to be
	23	medical care from Doctor Boulware, Mr. Peacoc	ck's 2		inadequate during his first follow-up outpatient
	24	blood pressure was never under control for any			visit to Doctor Bodware."
2	25	significant length of time?	2	25	Agreeordisagree?
X		Pa	age 142		Page 144
Ø	1	MR. HUPP: objection.			A. That's a simplification. Number one, I don't
	2	THE WITNESS: He didn't receive			know what medications he actually received every
	3	care from Doctor Boulware for a significant			day. I didn't review those records. And it's very
	4	length of time. So, the answer to that is, by			evident that patients have medications withheld
	5	your definition, no. You have defined it.			before procedures or even after procedures
	6	B' MS. SPERANDO:			sometimes, so that during a short hospitalization –
		Q. You wouldn't consider a year a significant			the only thing I can tell you is that before he was
	8	length of time?			discharged, as I recall, his blood pressure was reasonable. I don't remember what his last blood
		<b>A.</b> No, not <b>in</b> terms of trying to control this			pressure reported was. But, I don't think it was
	10	kind <b>of</b> blood pressure. Q. Two years?			excessive.
	11	<b>A.</b> I would say two years is a significant length		12	So, clearly, at his first follow-up, assuming
	13	of time. But, during that period of time, there			be was taking those medicines, his blood pressure
	14	were times where Mr. Peacock's blood pressure			was high. Again, I don't <b>know</b> whether he took the
	15	tending toward good control, but at which time h			medicines or not.
	16	had periods where he was not tolerating the blood			Q Assuming that he was taking the medicines -
	17	pressure medications, for different reasons. <b>So</b> ,			well, the medicines were changed on the first
	18	control is <b>an</b> odd word, I would say. You <b>know</b> ,			follow-up, were they not?
	19	say that it wasn't under significant control for			A. Right.
	20	lengthy periods of time is – you just don't have			Q. Presumably because Doctor Boulware –
	21	to call.			A. Felt they weren't working; right.
Ì	22	Q. Okay. You would not put any degree of blan	ne 2		Q. Next sentence: "At autopsy he had clear
<.)	23	on Mr. Peacock for continuing to engage in vigor			evidence of end-organ injury secondary to
	24	exercise such as tennis after his stress test, would		24	longstanding hypertension."
	25	you?	2	25	Agreeordisagree?

	2	. J. 141. IXUUII	Conde		tt  Peacock v. Univ. Hospital:
			Page 145		Page 147
	1	A. I agree.		1	define as malignant hypertension.
	2	Q. Well, whatever his kidney slides showed, y	ou		Q. Okay. Next sentence: "These findings all
م. م	3	wouldn't have an opinion on, correct?			suggest that with a high degree of medical
)) )	4	A. I don't know what his slides showed. It			probability that Mr. Peacock had poorly controlled
у.	5	wouldn't surprise me that a gentleman with co	ronary		hypertension and episodically experienced extreme
	6	artery disease had arterial sclerosis in his			elevations of blood pressure."
	7	kidneys. That's a systemic disease.			A. These findings have nothing to do With
	8	Q. "He had a remote cerebellar infarct, which,			episodically what he experienced.
	9	within medical probability, was due to		9	MR. HUPP: wait a second.
	0	hypertension."		0	Objection.
	1	Agree or disagree?		1	THE WITNESS: They certainly are
	2	A. That's probably true.		2	suggestive that he had hypertension. It
	3	Q. Next sentence: "He had evidence of LVH, b	oth	3	doesn't tell you <i>the</i> degree of control. It
	4	clinically (by echocardiography and ECG) and a		4	doesn't tell you anything about the peaks. It
	5	autopsy"		5	just tells you he had hypertensive heart
	6	Agreeordisagree?		6	disease.
	7	A. Both the echocardiogram and the autopsy d	etail	7	BY MS. SPERANDO;
	8	left ventricular hypertrophy.		8	<b>Q.</b> Last sentence there: "the most likely
	9	Q. Okay. And he says, "had both thickenin	g		scenario is that he was experiencing severe
	:0	of the LV walls grossly and severe thickening of	-		elevations of blood pressure during exercise."
	:1	small coronary vessels, the latter an unusual		!1	Agreeordisagree?
	2	finding consistent with severe hypertension."		:2	A. I think I disagree with that. I have
	:3	Agree or disagree?			clinical evidence from <b>a</b> stress test that that's not
	:4	<b>A.</b> I would say it is not an unusual finding.			true.
	:5	But, thickening of small coronary vessels is		!5	Q. Next page. He says here, "Both physicians" -
			Page 146		Page 148
ÿ	1	consistent with severe hypertension - I take the	<b>U</b>	1	meaning Doctor Boulware and Doctor Biblo "were
	2	back. Again, it is consistent with hypertension			responsible to inform the patient that he had
	3	Hypertension can be very longstanding and cat			biochemical and clinical evidence of a heart attack
	4	this, as Mr. Peacock's was. Again, I don't hav		4	and that he would have to limit his physical
	5	evidence as to his hypertension was ever sever			activity during the high-risk, proarrhythmic,
	6	Q. So, you don't <b>think</b> that severe thickening of			post-MI recovery period."
	7	the small coronary vessels is an unusual findin		7	I take it you disagree with that.
	8	A. No; not with hypertension.	0	8	A. Absolutely.
	9	Q. Next sentence: "The microscopic lesions in	1 I		Q. Okay. Now, if, in fact, Mr. Peacock had had a
	0	the left circumflex coronary artery, with hemory	rrhage		non-Q wave MI, at that point, if that was the case,
	1	into the outside of the vessel wall and the necro	-	1	should Mr. Peacock have been engaging in exercise
	2	of the smooth muscle cells in the outer layer of	fthe	2	such as tennis?
	3	vessel are consistent with histologic findings of		3	MS. CARULAS: objection.
	4	malignant hypertension."		4	MR. HUPP: objection.
	5	Agreeordisagree?		5	THE WITNESS: Again, realizing a
	6	A. Malignant hypertension has a clinical		6	non-Q wave infarction is a clinical entity,
	7	syndrome. So, again, Doctor Herskowitz has c	chosen	7	not something you look at slides to tell, and
	8	to redefine what the definition of "malignant		8	you believe he had a non-Q wave myocardial
	9	hypertension" is,		9	infarction, you would advise Mr. Peacock to
	:0	I have no evidence that Mr. Peacock ever h	ad	:0	enroll in cardiac rehabilitation. That's what
	!1	malignant hypertension. The fact that he finds		!1	you would advise him. And you would advise
	!2	microscopic lesions, as he has described, and v	vhich,	2	him not to do high level physical activity.
J	!3	again, I <b>an</b> not an expert in looking at and		:3	BY MS. SPERANDO:
	!4	describing, may be consistent with hypertensio	n.	14	Q. Such as tennis?
	:5	But, I doubt that they are consistent with what		15	A. Such as tennis, yes. That's moderately high.
	L	-			Page 145 - Page 148

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REPARTING A CONTRACT CONTRACTOR CONT

Page 149       Page 151         1       But, yes.       1       monitorthem?         2       Q. Okay, If he had had an VII - he table here       3       about this high risk proarthydmic post Mi recovery         4       period. Does that mean that after he has an MI       3       I would put them in a program which lasts       4         5       assuming he dul - that there is a certain amount of time dbr an MI       5       i would put them of the definitive       7         7       A. There you are it risk, for anrythmini. And the bots       6       and softer Mine angle of the long of hospitalization to       6       and softer Mine angle of the long of hospitalization to         11       nonitor a patient.       12       And where Mr. Preacock had an excellent Hole to the apposite test.       16       16       17       0. Okay. Well, is three statistically speaking a       18       19       19       10       10       10       10       10       13       10       11       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10 <td< th=""><th></th><th>וע</th><th>.J. IVI. NOCH Conde</th><th>ense</th><th colspan="2">nselt⁴⁴ Peacock v. Univ. Hospitals</th></td<>		וע	.J. IVI. NOCH Conde	ense	nselt ⁴⁴ Peacock v. Univ. Hospitals	
<ul> <li>2 Q. Okay, If he had had an M1 - he tails here 3 about his high risk proartybraids goest-M recovery 4 period. Does that mean that after he has an M1 - 5 assuming be hid - that there is a certain amount of time after an M1 8 where you are at risk for arrtythmia. And the best 9 clinical scenario or best clinical way to look at 10 that is during the length of hospitalization to 11 monitor a patient.</li> <li>12 And where Mr. Peacock had an excellent Holter 13 monitor and no other recorded arrtythmia that I 14 saw, the prediction would be that he would not have 15 a high probability of arrtythmia in his 16 post-discharge period.</li> <li>17 Q. Okay, Well, is three statistically speaking a 18 period of time during which a patient who Bas had 19 Mt is most susceptible to having another M2 20 A. Yes; or another arrhythmia, 21 Those arrhythmia = nis 23 never arrhythmias are not generally considered to 24 A. The programs are not y in mouths? 25 necessarily malignam or If for threatening. It is 26 no real arrhythmia 27 Those arrhythmia, 28 A stress rest of y and y have a non-Q wave myocardial 39 attern has a high prodobility of an arrythmia, 29 A. Yes; or another scheming predictive of 4 arrhythmis are not generally considered to 4 arrhythmis are not generally considered to 5 A patient with a non-Q wave myocardial 6 infraction does run a risk of an event. Arrhythmic 7 events are not usaidly the events have myocardial 6 infraction does run a risk of an event. Arrhythmic 7 events are not usaidly the events have any and 14 in the inferior wall? 15 th would be - 16 MSL HDP? Asked and 16 infraction does run a risk of an event. Arrhythmic 17 answered. Objection. 18 TEW WINNES Yes. I probably 19 didn't answer it totally. In the first couple 20 of days your ansome risk. But ary monor would and be what here hery runnifs 21 there in this program where you would 22 of him the in this program where you would 23 of him thim in this program where you would 24 definitions. And a devent</li></ul>			Page 149		Page 151	
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14       saw, the prediction would be that he would not have 15       14       prognosticate otherwise, to tell him that he was at 15       15         15       a high probability of arrhythmia his 16       0       The stress test results were clearly abnormal 17       10         16       Q. Orean structure was an abigh risk of having arrhythmia. 20       A. Yes; or another arrhythmia. 21       Q. Or an arrhythmia. 22       A. Yes; or another arrhythmia. 23       10       Would sagree about the ongoing inferior 24       20       Q. You disagree about the ongoing inferior 21       21       20       Q. You disagree about the ongoing inferior 21       21       21       21       21       21       22       20       Q. You disagree about the ongoing inferior 21       21       21       21       21       21       21       21       22       22       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       20       2		12	And where Mr. Peacock had an excellent Holter	12	prognosis is excellent. It would be awful hard to	
<ul> <li>15 a high probability of arrhythmia in his</li> <li>16 post-discharge period.</li> <li>17 Q. Okay, Well, is three statistically speaking a</li> <li>18 period of time during which a patient who has had an</li> <li>19 Mis most susceptible to having another Att?</li> <li>20 A. Yes; or another arrhythmia.</li> <li>21 Q. Or an arrhythmia –</li> <li>22 A. Well, the first 24 to 48 hours after an MI, a</li> <li>23 patient has a high risk of having arrhythmias.</li> <li>24 Those arrhythmias are not generally considered to be</li> <li>25 necessarily malignant or life threatening. It is</li> <li>26 more concerned about as being predictive of</li> <li>4 arrhythmic problems.</li> <li>5 A patient with a non-Q wave myocardial</li> <li>6 infarction does run a risk of an event. Arrhythmic</li> <li>7 events are not usually the events that we associate</li> <li>8 with non-Qwave Mis. Instead we generally</li> <li>9 associate ischemic events; i.e., a myocardial</li> <li>10 infarction, with them. So, they run the risk.</li> <li>11 Q. What I am asking you to do, sir, with regard</li> <li>12 to a non-Q wave myocardial</li> <li>13 this: What's the period of time where they runthis</li> <li>14 risk for another ischemic events, i.e., a myocardial</li> <li>15 this: What's the period of time where they runthis</li> <li>14 risk for another ischemic events, i.e., a myocardial</li> <li>15 this: What's the period of time where they runthis</li> <li>14 risk for another ischemic events, i.s. a myocardial</li> <li>15 di fwady be ~</li> <li>16 MR. HUPP: Asked and</li> <li>17 AB WINESS: Yes. I probably</li> <li>18 A HUPP: Asked and</li> <li>19 Alth WINESS: Yes. I probably</li> <li>19 didn't answeri totally. In the first couple</li> <li>20 of days you run some risk. But, gix months, sometring like that.</li> <li>21 BY MS. SPERANDO:</li> <li>22 BY MS. SPERANDO:</li> <li>23 BY MS. SPERANDO:</li> <li>24 BY MS. SPERANDO:</li> <li>25 BY MS. SPERANDO:</li> <li>25 BY MS. SPERANDO:</li> <li>26 A In one view - again, you are mixing</li> <li>27 defin</li></ul>		13	monitor and no other recorded arrhythmias that I	13	tell him to it would be very hard to	
16       post-discharge period.         17       Q. Okay, Well, is three statistically speaking a         18       period of time during which a patient who has had an         19       Milis most susceptible to having another MI?         20       A. Yes; or another arrhythmia.         21       Q. Or an arrhythmia.         22       A. Well, the first 24 to 48 hours after an M, a         23       patient has a high risk of having arrhythmias.         24       Those arrhythmias are not generally considered to be         25       necessarily malignant or life threatening. It is         26       Nore arrhythmias in the days following that -i.e.,         24       48 hours to even up to seven days - that you would         3       be more concerned about tas being predictive of         4       arrhythmic problems.         5       A patient with a non-Q wave myocardial         10       infarction does run a risk of an event. Arrhythmic         7       events are not usually the events that we associate         13       Q. Wat I am asking you to do, sir, with regard         14       infarction, with them. So, they run the risk.         15       it would be         16       MR. HUPP: Asked and         17       answered. Objection.		14	saw, the prediction would be that he would not have	14	prognosticate otherwise, to tell him that he was at	
<ul> <li>17 Q. Okay, Well, is there statistically speaking a period of time during which a patient who has had an 19 Mt is most susceptible to having another Mt?</li> <li>20 A. Yes; or another arrhythmia,</li> <li>21 Q. Or an arrhythmia –</li> <li>22 A. Well, the first 24 to 48 hours after an M, a 23 patient has a high risk of having arrhythmias.</li> <li>24 Those arrhythmias are not generally considered to be 25 necessarily malignant or life threatening. It is</li> <li>25 necessarily malignant or life threatening. It is</li> <li>26 more concerned about as being predictive of 4 arrhythmic problems.</li> <li>3 A patient with a non-Q wave myocardial 6 infarction does run arisk of an event. Arrhythmic 7 events are not usually the events that we associate sichemic events, i.e., a myocardial 10 infarction, with them. So, they run therisk.</li> <li>11 Q. What I am asking you to do, sir, withregard 12 to a non-Q wave myocardial 16 infarction, with them. So, they run therisk.</li> <li>11 Q. What I am asking you to do, sir, withregard 12 to a non-Q wave myocardial 16 infarction walter ischemic event that's higher than 15 it would be -</li> <li>16 MR, HUPP: Asked and 17 answereit totally. In the first couple 20 of days you run some risk. But, siz months, 22 BY MS. SPERANDO</li> <li>23 Q. So, if a person does have a non-Q wave MI 24 during that is: months and they wart to exercise, 25 you would put them in this program where you would</li> <li>24 Desc of all person does have a non-Q wave MI 24 during that is: months and they wart to exercise, 25 you would put them in this program where you would</li> <li>24 Desc of all person does have a non-Q wave MI 24 definition, I should say an attenuation 25 defect.</li> </ul>		15	a <b>high</b> probability of arrhythmia in his	15	significant risk.	
<ul> <li>13 period of time during which a patient who has had an 19 Mtis most susceptible to having another MT?</li> <li>20 A. Yes; or an arrhythmia.</li> <li>21 Q. Or an arrhythmia.</li> <li>22 A. Well, the first 24 to 48 hours after an MI, a</li> <li>23 patient has a high risk of having arrhythmias.</li> <li>24 Those arrhythmias are not generally considered to be</li> <li>25 necessarily malignant or life threatening. It is</li> <li>26 more arrhythmias in the days following that -i.e.,</li> <li>27 48 hours to even up to seven days - that you would</li> <li>3 be more concerned about as being predictive of</li> <li>4 arrhythmic problems.</li> <li>28 addint an arisk of an event. Arrhythmic</li> <li>7 events are not usually the events that we associate</li> <li>8 wilth non-Qwave MYs. Instead we generally</li> <li>9 associate ischemic events, i.e., a myocardial</li> <li>10 infarction, with them. So, they run therisk.</li> <li>11 Q. What I am asking you to do, sir, with regard</li> <li>12 twould be -</li> <li>16 MR. HUPP: Asked and</li> <li>17 answered. Objection.</li> <li>18 THB WTINESS: Yes. I probably</li> <li>19 didn't answer it totally. In the first couple</li> <li>20 of days you run some risk. But, six months.</li> <li>21 BYMS. SPERANDO</li> <li>22 BYMS. SPERANDO</li> <li>23 BYMS. SPERANDO</li> <li>23 BYMS. SPERANDO</li> <li>23 BYMS. SPERANDO</li> <li>23 BYMS. SPERANDO</li> <li>24 BYMS. SPERANDO</li> <li>25 BYMS. SPERANDO</li> <li>25 BYMS. SPERANDO</li> <li>26 Or days you run some risk. But, six months and they want to exercise,</li> <li>25 you would put them in this program where you would</li> <li>26 definition, I should say an attenuation</li> <li>26 definition, I should say an attenuation</li> <li>26 definition, I should say an attenuation</li> </ul>		16	post-discharge period.	16	Q. "The stress test results were clearly abnormal	
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<ul> <li>20 A. Yes; or another arrhythmia,</li> <li>21 Q. Or an arrhythmia –</li> <li>22 A. Well, the first 24 to 48 hours after an MI, a</li> <li>23 patient has a high risk of having arrhythmias.</li> <li>24 Those arrhythmias are not generally considered to be</li> <li>25 necessarily malignant or life threatening. It is</li> <li>26 more arrhythmias in the days following that – i.e.,</li> <li>27 48 hours to even up to seven days – that you would</li> <li>3 be more concerned about as being predictive of a arrhythmic problems.</li> <li>5 A patient with a non-Q wave myocardial</li> <li>6 infarction does run a risk of an event. Arrhythmic</li> <li>7 events are not usually the events that we associate</li> <li>8 with non-Qwave MTs. Instead we generally</li> <li>9 associate ischemic event file, infarction, is answer</li> <li>13 ti would be –</li> <li>16 MR. HUPP: Asked and</li> <li>17 HE WITNESS: Yes. I probably</li> <li>18 THE WITNESS: Yes. I probably</li> <li>19 didn't answer it totally. In the first couple</li> <li>20 of days you run some risk. But, six months,</li> <li>21 STMS. SPERANDO:</li> <li>22 ST MS. SPERANDO:</li> <li>23 PS MS. SPERANDO:</li> <li>24 Sou Sou Calcula protection.</li> <li>25 THE WITNESS: Yes. I probably</li> <li>26 of days you run some risk. But, six months,</li> <li>27 STMS. SPERANDO:</li> <li>28 PT MS. SPERANDO:</li> <li>29 Ou would put then in this program where you would</li> <li>20 of days you run some risk. But, six months, and they want to exercise,</li> <li>25 you would put them in this program where you would</li> <li>26 defect.</li> <li>27 WMS. SPERANDO:</li> <li>29 Ou would put them in this program where you would</li> <li>20 defaution. A low of a preson does have a non-Q wave MI</li> <li>20 difficut as is months and they want to exercise,</li> <li>21 by our would put them in this program where you would</li> <li>22 BY MS. SPERANDO:</li> <li>23 ON MORE The missing definition, I should say an attenuation</li> <li>24 by definition, I should say an attenuation</li> <li>25 BY MS. SPERA</li></ul>	1	18	period of time during which a patient who has had an	18	Youdisagree?	
<ul> <li>21 Q. Or an arrhythmia -</li> <li>21 ischemia by ECG because the ECG was not valid,</li> <li>22 A. Well, the first 24 to 48 hours after an MI, a</li> <li>23 patient has a high risk of having arrhythmias.</li> <li>24 Those arrhythmias are not generally considered to be</li> <li>25 necessarily malignant or life threatening. It is</li> <li>24 Those arrhythmias are not generally considered to be</li> <li>25 necessarily malignant or life threatening. It is</li> <li>24 B hours to even up to seven days - that you would</li> <li>3 be more concerned about as being predictive of</li> <li>4 arrhythmic problems.</li> <li>5 A patient with a non-Q wave myocardial</li> <li>6 infarction does run a risk of an event. Arrhythmic</li> <li>7 events are not usually the events that we associate</li> <li>8 with non-Q wave MI's. Instead we generally</li> <li>9 associate ischemic events, i.e., a myocardial</li> <li>10 infarction, with them. So, they run the risk.</li> <li>11 Q. What I am asking you to do, sir, with regard</li> <li>12 to a non-Q wave myocardial infarction, its answer</li> <li>13 this: What's the period of time where they run this</li> <li>14 risk for another ischemic event that's higher than</li> <li>15 it would be -</li> <li>16 MR. HUPP: Asked and</li> <li>17 answered. Objection.</li> <li>18 THE WTINESS: Yes. I probably</li> <li>19 didin't answer it totally. In the first couple</li> <li>20 G days you run some risk. But, six months,</li> <li>21 BY MS. SPERANDO</li> <li>22 BY MS. SPERANDO</li> <li>23 Q. So, if a person does have a non-Q wave wave to exercise,</li> <li>25 you would put them in this program where you would</li> <li>24 oright hat is months and they want to exercise,</li> <li>25 you would put them in this program where you would</li> <li>24 of effort.</li> </ul>		19	MI is most susceptible to having another MI?	19	A. Totally disagree.	
<ul> <li>A. Well, the first 24 to 48 hours after an MI, a</li> <li>patient has a high risk of having arrhythmias.</li> <li>Those arrhythmias are not generally considered to be</li> <li>necessarily malignant or life threatening. It is</li> <li>recessarily malignant or life threatening. It is</li> <li>associate ischemic event as the generally</li> <li>associate ischemic events, i.e., a myocardial</li> <li>infarction, with them. So, they run the risk.</li> <li>Q. What I am asking you to do, sir, with regard</li> <li>to an on-Q wave myocardial infarction, is answer</li> <li>tisk for another ischemic event that's higher than</li> <li>twould be -</li> <li>M. HUPP: Asked and</li> <li>associate ischemic event that's higher than</li> <li>twould be -</li> <li>M. HUPP: Asked and</li> <li>manswered. Objection.</li> <li>THE WITNESS: Yes. I probably</li> <li>didn't answer it totally. In the first couple</li> <li>of days you run some risk. But, six months, something like that.</li> <li>B. KupP: Asked a</li></ul>		20	•	20		
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<ul> <li>24 Those arrhythmias are not generally considered to be 25 necessarily malignant or life threatening. It is 25 no evidence of ischemia on any of his ECG's.</li> <li>Page 150 Page 150 Page 150 Page 150 Page 150 Page 150 Page 152 48 hours to even up to seven days - that you would 3 be more concerned about as being predictive of 4 arrhythmic problems.</li> <li>5 A patient with a non-Q wave myocardial 6 infarction does run a risk of an event. Arrhythmic 7 events are not usually the events that we associate 8 with non-Qwave MT's. Instead we generally 9 associate ischemic events, i.e., a myocardial 10 infarction, with them. So, they run the risk.</li> <li>11 Q. What I am asking you to do, sir, with negard 12 to a non-Q wave myocardial 14 risk for another ischemic event that's higher than 15 it would be -</li> <li>16 MR. HUPP: Asked and 17 answered. Objection.</li> <li>18 THE WITNESS: Yes. I probably 19 didn't answer it totally. In the first couple 20 of days you run some risk. But, six months, 21 something like that.</li> <li>22 BY MS. SPERANDO:</li> <li>23 Q. So, if a person does have a non-Q wave MI 24 during that six months and they want to exercise, 25 you would put them in this program where you would</li> <li>24 A. His ECG is completely not specific. There is 25 no evidence of ischemia on any of his ECG's.</li> <li>24 A. The stress test ECG's are nondiagnostic. No. 14 the ECG changes were not definitions, 14 risk for another ischemic event that's higher than 15 it would be -</li> <li>16 MR. HUPP: Asked and 17 answered. Objection.</li> <li>18 THE WITNESS: Yes. I probably 19 didn't answer it totally. In the first couple 20 of days you run some risk. But, six months, 21 something like that.</li> <li>22 BY MS. SPERANDO:</li> <li>23 Q. So, if a person does have a non-Q wave MI 24 during that six months and they want to exercise, 25 you would put them in this program where you would</li> </ul>		22		22		
<ul> <li>inderstanding of the second of</li></ul>		23		23		
<ul> <li>Page 150</li> <li>I more arrhythmias in the days following that -i.e.,</li> <li>48 hours to even up to seven days - that you would</li> <li>be more concerned about as being predictive of</li> <li>arrhythmic problems.</li> <li>A patient with a non-Q wave myocardial</li> <li>infarction does run a risk of an event. Arrhythmic</li> <li>r events are not usually the events that we associate</li> <li>with non-Qwave MI's. Instead we generally</li> <li>associate ischemic events, i.e., a myocardial</li> <li>infarction, with them. So, they run the risk.</li> <li>Q. What I am asking you to do, sir, with regard</li> <li>this: What's the period of time where they run this</li> <li>it would be</li> <li>MR. HUPP: Asked and</li> <li>st meeting is to another ischemic event hat's higher than</li> <li>THE WITNESS: Yes. I probably</li> <li>didn't answer it totally. In the first couple</li> <li>of days you run some risk. But, six months,</li> <li>Something like that.</li> <li>22 BY MS. SPERANDO:</li> <li>23 Q. So, if a person does have a non-Q wave MI</li> <li>4 during that six months and they want to exercise,</li> <li>you would put them in this program where you would</li> </ul>						
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<ul> <li>3 be more concerned about as being predictive of 4 arrhythmic problems.</li> <li>3 Q. Okay. Then he says, next sentence: "While</li> <li>4 the ECG changes were not definitively diagnostic in</li> <li>5 A patient with a non-Q wave myocardial</li> <li>6 infarction does run a risk of an event. Arrhythmic</li> <li>7 events are not usually the events that we associate</li> <li>8 with non-Qwave MT's. Instead we generally</li> <li>9 associate ischemic events, i.e., a myocardial</li> <li>10 infarction, with them. So, they run the risk.</li> <li>11 Q. What I am asking you to do, sir, with regard</li> <li>12 to a non-Q wave myocardial infarction, is answer</li> <li>13 this: What's the period of time where they run this</li> <li>14 risk for another ischemic event that's higher than</li> <li>15 it would be</li> <li>16 MR. HUPP: Asked and</li> <li>17 answered. Objection.</li> <li>18 THE WITNESS: Yes. I probably</li> <li>19 didn't answer it totally. In the first couple</li> <li>20 of days you run some risk. But, six months,</li> <li>21 BY MS. SPERANDO:</li> <li>23 Q. So, if a person does have a non-Q wave MI</li> <li>24 during that six months and they want to exercise,</li> <li>25 you would put them in this program where you would</li> </ul>	U)	1	more arrhythmias in the days following that -i.e.,	1	Q. I <b>am</b> talking about the stress test.	
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	Page 153			Page 155
	1	By definition, to call this ischemia - this	1	Q. Okay. What literature are you relying on,
	2	defect ischemia, you have to see it on more than one	2	doctor?
	3	image. That's why we do more than one. I don't	3	A. I am sure textbook literature. I am sure I
1		know Doctor Herskowitz's expertise, but this is a	4	could dig that up.
)	•	clearcut misunderstanding of what a thallium and ECG	5	MS. SPERANDO: I am going to <b>ask</b>
		on stress testing shows. These are way out of	6	you to provide that to your attorney.
		bounds clearcut misunderstandings.	7	MR. HUPP: For the record, I
	8	Q. We have already gone through the next	8	am not his attorney. But, okay.
	9	sentence. You don't feel that the fact that he was	9	MS. SPERANDO: The attorney who
	10	pretreated with Nifedipine in any way invalidated	10	has retained your services in this matter,
		the results of the stress test, correct?	11	Mr. Steven Hupp.
	12	A. Correct.	12	MR. HUPP: That's correct.
	13	Q. Okay.	13	THE WITNESS: Esquire.
	14	A. Again, I thirk clinically that is a well known	14	BY MS. SPERANDO:
	15	phenomenon.	15	Q. You note in your report on Page Two in the
	16	Q. What was the data that they had regarding	16	first incomplete paragraph, "Only nine isolated
	17	blood pressure response during exercise - vigorous	17	ventricular atopic beats were noted. Only one
	18	exercise?	18	couplet of ventricular atrophy was noted, and there
	19	A. What's the data – I am <i>sorry</i> – that who	19	were no episodes of tachycardia" -
	20	had?	20	A. There is a typographic error. "Atopic" should
	21	Q. Doctors had.	21	be "ectopic," e-c-t-o-p-i-c. "Atrophy" should be
	22	A. That Doctor Effron had?	22	"ectopy."
	23	Q. Effron, Boulware, Biblo.	23	Q. Okay. What is the significance of those
	24	MR. HUPP: During the stress	24	findings to you?
	25	test?	25	A. It is not unusual to see isolated ventricular
)		Page 154	L I	Page <b>156</b>
,	1	MS. SPERANDO: After the stress	1	beats on a Holter monitor on just about anyone. So,
	2	test.	2	they <b>are</b> insignificant.
	3	MR. HUPP: After the stress	3	Q. And you say <b>in</b> the second full paragraph on
	4	test.	4	Page Two, the last sentence: Thallium and Sestamibi
	5	MS. CARULAS: what is the	5	radionuclide scintigraphy demonstrated a fixed area
	6	question?	6	of inferior perfusion defect attenuation. The
	7	BY MS. SPERANDO:	7	radiology report indicates that this is most likely
	8	Q. Doctor Herskowitz says, "Allowing a patient	8	attenuation"; is that right?
	9	with uncontrolled hypertension to exercise	9	A. That's right.
	10	rigorously without any data as to his blood pressure	10	Q. What was the possibility that it was not, in
	11	response during exercise places the patient at	11	fact, attenuation, but an inferior perfusion defect?
	112	unnecessary risk and danger." So, I would like for	12	A. The point is that that represents artifact,
	13	you to tell me what the data is or was <b>as</b> to his	13	period.
	]14	blood pressure response during exercise.	14	Q. "Artifact" meaning?
	15	A. The data is recorded right here. His blood	15	A. Attenuation or other things. when seen in
	16	pressure response was to go from baseline 150 over	116	
	17	100 to 210 over 100. I can also tell you that there	17	possibly diaphragmatic attenuation.
	118		18	Q. So, there is no possibility in your mind that,
	19	to tell you that I know there is literature that	19	in fact, it was not attenuation, but rather inferior
	20	placing a patient on a stress test with blood	20	perfusion defect?
	21	pressures even up to levels of 180 over 120 and	21	A. That finding on this stress test, by
•	22	allowing them to exercise has never been reported,	22	definition, is not ischemia.
Ĵ	23	to my knowledge – that there is a complication from	23	Q. Okay. You say in your report that, "Doctor
	24	that exercise test.	:24	Warshall's hypothesis of ischemia as the cause of
	25	BY MS. SPERANDO:	25	the arrhythmia from which Mr. Peacock died is
				Page 153 - Page 156

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	Dr. J. M. Koch	<u>CondenseIt</u> [™]	Peacock v. Univ. Hospitals
		Page 157	Page 159
	1 certainly interesting and agreeably has some		at bothers me, that you have an autopsy
	2 potential likelihood"; is that correct?	2 result that	t doesn't show any fresh – which is, as
·	3 A. where are we?	3 far <b>as</b> I kr	now, the hallmark of ischemia, and yet you
ARRY .	4 Q. That is the last paragraph on Page Two.	4 hypothesi	ze ischemia. I don't have that evidence.
	5 A. Okay. Let's see, Okay.	5 In fact, Il	have evidence that it is not there.
	6 MR. HUPP: what's the	6 Q. Well,	it is fair to say that you cannot rule
	7 question?	7 out ischer	nia in the sense of saying absolutely that
	8 BY MS. SPERANDO:		what it was, versus saying there is no
	9 Q. Well, my question is: When you say, "has		
	0 potential likelihood," what do you mean?	10 Do yo	u understand the question, doctor?
	1 A. Well, I think that – he died. And at the	11 MR. H	-
	2 time of his death we don't know for sure what	caused 12 releva	5
	3 his death. So, we have to thirk of what is the		ITNESS: I understand the
	4 potential. As I said, in the differential of sudd		
	5 death, it was ischemia. It is in the differential.	15 BY MS. SP	
	6 There isn't any way to adequately tell you that		it. There is no question.
	7 is one hundred percent one way or another.	-	is fair to say, then, that with all of
	8 I thirk that's why we <b>are</b> here today. We		hat were done, ischemia was never ruled
	9 don't know exactly what caused his death. Bu		
	0 there is potential that his death $-$ in general,	20 MR, H	-
	1 syncopal death or a sudden death arrhythmic		TTNESS: Ischemia was ruled
	2 has potential to be ischemic. That's in $the$		the extent that those tests can rule it
	3 differential diagnosis. I think in the next	23 out.	
	<ul><li>4 sentence is where I come from then to tell you</li></ul>		FRANDO
	5 don't thirk it was ischemic,	•	is a difference there?
	· · · · · · · · · · · · · · · · · · ·	-	
		Page 158	Page 160
	1 Q. Well, but <i>the</i> words you used, doctor, were		
	2 "agreeably has some potential likelihood" Dic	•	
	<ul> <li>3 not say that?</li> <li>4 A Yes. I said that.</li> </ul>	3 A. Iunder	
			when someone's Life depends on ruling it
	<ul><li>5 Q. So, that likelihood meaning?</li><li>6 A. Remember earlier I said it is unclear what</li></ul>	,	s to the extent that those tests can rule
		· · · · · ·	t could be a very big difference,
	7 physiologic-basis of arrhythmia is.	7 correct?	and the immediate
	8 Q. You said that.		ave taken a jump. And the jump is to
	<b>9 A.</b> And what I am saying is that he says it is		cate based on what you have evidence of.
	0 ischemia, and certainly, an arrhythmic death ha		hose tests prognosticate. So, to the
	1 potentially likelihood to be from ischemia. I		t I can rule out that he has ischemia, I
	2 cannot tell you whether he was ischemic or not		l it out. I have to go one extra step.
	3 can't tell you. I believe he was not. I have		extra step is <i>the</i> stress test, which
	4 evidence that he wasn't. However, Doctor Wa	1 0	cates excellent long term recovery and no
	5 sayshewas.		of ischemia.
	6 Q. And you cannot tell us whether it was, in		tests cannot rule out <i>the</i> possibility
	7 fact, ischemia or not, because fair to say that y		ia causing a sudden cardiac death in this
	8 cannot rule out ischemia by what you <b>did</b> , by t	-	
	9 tests that were done, correct?	19 MR. H	5
	0 A. I ruled out ischemia by those tests. The	20 Releva	-
1	1 tests rule out ischemia in terms of a stress test		TTNESS: They cannot rule it
<b>based</b>	2 that didn't show ischemia. So, what the likelih		But, they <i>can</i> prognosticate that it is a
1999	3 is there – the second part is his own slides do		very small likelihood.
	4 show occlusive thrombus anywhere. So, I can		
	25 you in fact, they don't show <b>any</b> fresh throm	ibus 15 Q. Docto	r, if someone said to you, Doctor Koch,
			Page 157 - Page 160

and the second second

	UT.	. J. M. Koch	Condens	nselt [™] Peacock v. Univ. Hospita		
		Pag	ge 161	Page 163		
	1	you have a one percent chance – one percent	1	1 patients is to exercise to 70 percent of their		
	2	point 05 percent chance of dying suddenly from a	2	2 predicted maximum functional capacity; correct.		
•.	3	cardiac event if you engage in playing tennis, wha	t 3	3 70 percent of Mr. Peacock's functional		
Ś	4	would your response be?	4	4 capacity is eight and a half mets. Singles tennis		
¥.	5	MR. HUPP: Objection.	5	5 is not eight and a half mets, by all definitions.		
	6	Relevancy.	6	6 So, I would have no trouble telling him that he		
	7	THE WITNESS: If somebody told me	7	7 coulddothat.		
	8	that?	8	8 Q. Doctor, the question, once again, is, if a		
	9	BY MS. SPERANDO:	9	9 physician said to you, "It is important that you		
	10	Q. Yes.	10			
	11	A. Five in a thousand chances or five in ten	11			
	12	thousand chances	12			
	13	Q. Point <b>05</b> , not even a percent, but a half of a	13			
	14	percent-	14			
	15	A. What would I do?	15			
	16	That would depend on the benefit of playing	16	2		
	17	tennis. If the benefit of doing exercise and	17	-		
	18	playing tennis being doing exercise – was to mean	1	0		
	19	my long term probability that I would prevent	19			
	20	secondary event – or primary event, actually, in	20	-		
	21	this patient $-$ if I had the probability that	21			
	22	routine exercise prevented my long term <b>primary</b>	22	• •		
	23	event, I would have to look at five in <i>ten</i> thousand	1	11		
	24	the same way as I look at having a cardiac cath,	24			
	25	which has a little more risk than that, or <b>a</b> stress	25			
)	-					
9	,	-	ge 162	Page <b>164</b> 1 THE WITNESS: YOU asked me some		
	1 2	test, which has slightly more risk than that. Knowing what I know as a physician, I would				
	2	have to say the benefit of exercise, for me, may				
		outweigh that. I would have to think that tkrough,				
	4	But, you have to understand, the entire philosophy		<ul> <li>4 here is that if you don't want to understand</li> <li>5 those definitions, <i>then</i> don't ask me <i>the</i></li> </ul>		
		of medicine is a <b>risk</b> versus the benefit. Nothing				
			-			
		is risk free. I can't tell you that if you have no				
		risk factors you won't die a sudden death tomorro or ten minutes from now.		<ul> <li>8 question before you. You are not here to -</li> <li>9 MR. HUPP: we are over. It is</li> </ul>		
	9					
	10	But, I <i>can</i> tell you that there <b>are benefits</b> to		0 4:00. It is over. We have agreed to be here		
	11	these things and that the benefit statistically		11 until 4:00.		
	12	outweighs the risk. And I think that you cannot		2 MS. SPERANDO: I have agreed to be		
	13	isolate <b>risk</b> like that.	-	here for four hours. It started at 12:15.		
	14	Q. Well, you wouldn't ever say that the only way		4 THE WITNESS: Keep going.		
	15	that Mr. Peacock could get any benefit from		5 MR. HUPP: All right.		
	16	exercising would be by playing tennis, would you		6 You want to take a <b>break</b> for <b>a</b> couple seconds		
	17	A. No. But, that's a pretty moderate exercise		17 and cool down?		
	18	activity.	18			
	19	Q. Wouldn't you <i>agree</i> that briskly walking is	19	8		
	20	also very good exercise for cardiovascular benefit		5		
, A	21	A. Right,	21	5		
2	22	Q. And, in fact, aren't all the studies saying	22	· 11		
1	23	now you don't even have to work hard; you can ju		1		
	24	briskly walk, and you get that exercise benefit?	24	5		
	25	A. What we suggest the prescription in most	25	5 unprofessional.		
				Page 161 - Page 164		

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	υι.	J. 141. KOCH	Conde	_1SC	Peacock v. Univ. Hospitals
			Page 165		Page 167
	1	MS. SPERANDO: It was just meant	-		Q. I asked a specific question. And you put into
	2	as a joke.		2	the question that the only form of exercise was
	3	MR. HUPP: You don't know this		3	tennis. Clearly
	4	man. You can't joke with him. You can jo	oke	4	A. That's the only form you asked me about.
	5	with me.		5	Q. But, you specifically said that you would do
	6	THE WITNESS: I answered the		6	it if the benefit to doing it outweighed the risk,
	7	question that you implied was a lie.		7	completely ignoring the many other forms of exercise
	8	MS. SPERANDO: It's just a joke,		8	which do not pose the risk of tennis.
	9	doctor.		9	A. You didn't ask me about those.
	:10	THE WITNESS: You know how		10	Q. I subsequently did.
	11	seriously I take that position? I have never		11	A. No.
	J2	done this except once.		12	Q. As I understand it, I asked you if there were
	13	MR. MARTIN: Let's go off the		13	other forms of exercise which you knew you could
	.14	record.		14	engage in without harm to you and you were told that
	:15	THE WITNESS: Let's stay on the		15	you had a point 05 likelihood of death from engaging
	16	record.		16	in tennis – and I understood you to continue to say
	.17	MR. MARTIN we'll stay on.		17	the same answer: That you would nevertheless weigh
	.18	MR. HUPP: Either way you want		]18	the risk and benefits of playing tennis,
	:19	to do it.		19	notwithstanding the fact that there are other forms
	20 /21	THE WITNESS: I respect what you		20	of exercise – A. That is not what I answered. I said I would
	:21 ' <b>m</b>	are trying to do as a professional. I <b>am</b>		21	
	22 23	happy to come here and try to find out the truth and to try to tell you what I honestly		22	weigh the benefits of exercise for my risk, and
	.20 :24	think happened. I spent a long time lookin	a	23	exercise giving me more benefit than <b>risk</b> , I would choose my option that way.
	- <b>24</b> 25	at these documents. I spent a long time looking	g	24 25 [°]	MR. HUPP: For the record, he
	2.5		D. 166		
			Page 166		Page 168
	1	thinking about <b>these</b> things. I have a lot of clinical expertise in these <b>areas</b> . I do this		1	also talked about 70 percent of target heart rate.
	2 3	every day.		2 3	THE WITNESS: Right. 70 percent
	4	You are asking me some questions that,		3 4	of your functional capacity, which is
	5	frankly, <b>are</b> a little bit tough to answer in		<del>1</del> 5	generally considered to be 70 percent of your
100.00	6	the sense of their sense in making sense.		6	maximum heart rate.
	7	I am <b>trying</b> to answer them for you, so that		7	MR. MARTIN: For the record, I
-	8	they make sense, so there is some truth here		8	move to strike the exchange.
and the second se	9	I am not trying to steer you one way or the		-	BY MS. SPERANDO;
	10	other.		10	Q. It says here in your report, "A consideration
2	11	I know that sometimes answers aren't exac	tly	11	of left ventricular hypertrophy as a substrate with
1	12	what you want. But, your intuitive sense h	•	12	a predisposition to sudden cardiac death is an
1000	13	probably been steered an awful lot by what		13	intriguing hypothesis. However, withing the <b>limits</b>
	14	in some of these reports. And your intuition	m	14	of available studies, this hypothesis lacks a
	15	is not working here.		15	specific predictor." Did you not tell us before
4900 - V	16 I	BY MS. SPERANDO:		16	that, in fact, left ventricular hypertrophy is a
	17 (	Q. I simply asked you whether if you had a po	oint	17	predisposition to sudden cardiac death or can be -
·	18 (	05 percent chance of death from specifically		18	A. Yes. Right.
		exercising from tennis $-$ and you twisted the a		19	Q. When you say this hypothesis lacks a specific
	20 l	by saying if it meant your long term Survival y	/ou	20	predictor, what are you talking about?
_091×	21	would play tennis, completely ignoring the fac	t that	21	A. I am talking about an electrophysiologic study
13	22 t	there are other forms of exercise.		22	to predict sudden death in a person with left
		A. You didn't ask that question. You are the		23	ventricular hypertrophy.
ii	24 ]	lawyer. You <b>ask</b> the question you want the an	swer	24	Q. In your third paragraph, the second full
	25 1	to.		25	paragraph on Page Three, you say, "In any event,
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CORRECTION OF THE CONTRACT OF T

_	. J. M. Koch Conder		selt ^{1M} Peacock v. Univ. Hospital
[		Page 169	Page 17
	1 Doctor Boulware's involvement with this	s case 1	1 vigorous physical activity for Mr. Peacock after the
	2 includes his prior aggressive attempts to	control 2	2 stress test; is that right?
	3 Mr. Peacock's blood pressure."	3	<b>3</b> A. Correct. Also, noting that practically what
)	4 What do you consider aggressive atte	empts by 4	4 they have defined as vigorous exercise was singles
	5 Doctor Boulware?	5	5 tennis – strenuous, vigorous – these are all
	6 A. Well, he saw Mr. Peacock frequently,	, number 6	6 different words. I thirk vigorous exercise is not
	7 one. Allowing for the fact that when you	ı change 7	7 necessarily implied as a level of exercise, only
	8 blood pressure medications you have to g	give them 8	8 that they defined it as singles tennis.
	9 somewhere between two and six weeks to	o <b>even</b> know 9	9 Q. So, that would be – you would have no problem
	0 whether they are going to be effective, hi		0 with his playing tennis two hours at a time, at <b>a</b>
	1 have stated he had seen Mr. Biblo anywh		1 clip?
	2 frequency of a month to even more frequ	•	2 A. No.
	3 He had, by his deposition, gone out o	-	
	<b>4</b> to meet the guy before office hours when		5 51 1 5 8
	5 convenient for Mr. Peacock, So, he went		
	6 way frequently to get this guy into the of		6 A. I don't have any evidence that it would be
	7 <b>check</b> his blood pressure, and change his	17	
	8 medications. And that's pretty aggressiv		8 Q. Such as maybe marathon running or crew?
	9 Q. Are you aware of the fact that there w		
	0 times when Mr. Peacock was not on any		1 75 1 5
	1 with the blessing of Doctor Boulware?	21	· ·
	2 A. I am not aware that he was ever on no		e ·
	3 medication with his blessing.	23	
	4 Q. Did you read Doctor Boulware's dep		
$\mathbf{h}$	5 where he said on at least two occasions N		
'		Page 170	Page 17
	1 came in and <b>was</b> not on any medication l	5	1 vigorous exercise has a significant effect on blood
	2 sexual disfunction that it caused and that		
	<ul><li>3 Boulware was in full agreement with atte</li><li>4 nonpharmacologic measures to bring his</li></ul>	~ ~	<ul><li>3 from, sir?</li><li>4 A. Ch, boy. In 1991 or 1992, the Centers for</li></ul>
	<ul><li>5 pressure under control?</li></ul>		5 Disease Control published some data that indicated
	6 A. I recall something of the gist of that	5	<ul><li>6 that attempts to control blood pressure by exercise</li></ul>
	7 conversation.	7	
	8 Q. Do you find that to be <b>an</b> aggressive a	·	
	9 to control Mi Peacock's blood pressure	-	
	0 A. Yes, because, again, there are lots of	10	• • • • • • • • • • •
	1 approaches to controlling blood pressure.		
	2 Pharmacologic is primarily the primary of		
	3 However, where patients aren't tolerating		
	4 pharmacologic approaches, it is <b>certainly</b>		
	5 to try other things and continue to try to		5 medication?
	6 them. That's what I mean by aggressive	therapy – 16	6 A. I don't know the answer to that.
	7 frequent visits, a lot of feedback, a lot of	17	7 Q. Certainly, that would be a difference in this
	8 attempts at different therapies.	18	8 particular patient, because he was taking blood
	9 Q. All right. Just so that I have you on t	the 19	9 pressure medications, correct?
	0 record, doctor, you believe that the exerc		<b>A.</b> No. The idea being that exercise can modulate
	1 tennis that Mr, Peacock was engaged in	-	1 5 7
	2 consider that to be moderate activity, con	rrect? <b>22</b>	
	3 A. Yes. I <i>think</i> that is defined.	23	e
	4 Q. But, you would not have any problem		1 1 1
	5 Doctor Boulware or Doctor Biblo having	g okayed 25	5 However, it is generally not considered to be enough
			Page 169 - Page 17

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		Page 1	73	Page 175
i	1	for most people to substitute for pills on a regular	1	A. Moderate exercise is certainly good for you,
	2	basis. And that's why we use medications.	2	2 but it certainly is not going to lower your blood
	3	Q. Okay. Let's just focus in on what you have	3	³ pressure.
	4	written. The sentence is, "Well known data	4	Q. Do you have that study from the Centers for
	5	indicates that only Vigorous exercise has a	5	5 Disease Control?
	6	significant effect on blood pressure management."	6	6 A. I have a slide from it. I am sure I can find
	7	You wrote that, right?	7	7 that,
	8	A. Correct.	8	8 Q. Okay.
	9	Q. Now, the question, then, With regard to	9	A. There may actually be a textbook reference to
	10	Mr. Peacock is, could less than vigorous exercise	10	that, too.
	11	have had a significant effect on blood pressure	11	1 Q. At some point in this you say on the first
	12	management for him, given the fact that he was	12	2 page in the second paragraph, "No significant
	13	taking blood pressure medication?	13	3 electrocardiographic changes were noted, other than
	.14	A. Yes. What I have attempted to do here is	14	4 those associated with left ventricular hypertrophy
	.15	isolate exercise alone. Medication probably doesn't	15	5 and repolarization abnormality."
	16	have much to do with it, in the sense that what I	16	6 In terms of causing an ischemic event, aren't
	17	am trying to say – what I have attempted to do –	17	7 those changes significant?
	18	in this entire paragraph, not just that sentence	18	8 A. No.
	19	is to say that moderate physical activity is	19	9 Q. What if any significance to you was the
	20	certainly well known to reduce your risk of	20	0 cardiac cath finding of an 80 percent stenosis in
	21	cardiovascular disease.	21	1 the distal circumflex artery in terms of an ischemic
	22	And certainly, where we encourage people to	22	2 event or an arrhythmia for this man?
	:23	welk or do other mild to moderate activity, this is	:23	3 MS. CARULAS: I'm just going to
	:24	the generalized exercise prescription we give. If	:24	4 object, because I think we discussed all of
	:25	we are interested in lowering blood pressure by	:25	5 this two hours ago. I mean, he went through
)		Page 1	74	Page 176
	1	giving an exercise prescription, that exercise		1 the significance of the cath –
	2	prescription has to be fairly vigorous.	2	
	3	<b>Q.</b> But, if there is blood pressure medication	3	
	4	that is being taken in conjunction with the	4	
	5	exercise, then can the exercise be moderate in	5	
	6	conjunction with the drug to affect the blood	6	6 significant disease. And yet, clinically it
	7	pressure? _	7	7 doesn't translate into symptoms, disease,
	8	A. Yes. If your goal is to lower blood pressure	8	8 events, so that I would say it is clearly an
	9	by exercising, it has to be vigorous, whether or not	9	9 anatomic finding, something to be noted,
	10	you are taking the pills. You are taking the pills	10	something to consider if events take place.
	11	to lower blood pressure, too. So, they are two	11	1 On the other hand, in <b>terms</b> of that
	12	different avenues of attack on this hypertension.	12	2 specifically being a cause of something, I
	13	Q. So, if he is taking blood pressure medication,	13	3 just don't have evidence for it.
	14	and let's just say the blood pressure is 120 over	14	4 BY MS. SPERANDO.
	15	80, and now he has only moderate activity, you would	i   15	5 Q. If vigorous exercise such as tennis should
	16	not expect the blood pressure to be even lower?	16	6 have been prohibited, who had the duty within the
	17	A. I wouldn't expect it to go lower; exactly.	17	7 standard to do it, Doctor Boulware, Doctor Biblo, or
	18	Q. So, in terms of moderate activity, in terms of	18	8 both?
	19	lowering blood pressure, there is no benefit?	19	9 MR. HUPP: objection.
	20	A. None that has redly been scientifically	2	0 Hypothetical.
	21	demonstrated. That's right. And that's the data	21	1 THE WITNESS: If it should have
)	22	that CDC was trying to say – that it requires	22	2 been prohibited – I don't have any basis for
Ì	23	vigorous exercise to lower it, In the absence of	23	prohibiting it at all. But, if <b>a</b> person has <b>a</b>
	24	vigorous exercise –	24	• · · · ·
	25	Q. Might as well not do otherwise	25	5 would thirk all of their doctors would discuss

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Jr. J. M. Koch	Condenselt ^{1M}	Peacock v. Univ. Hospita
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1 that with them.		
2 Q. Well, okay. I am talking about spec	ifically	
3 with regard to this case. The consult as		
4 Doctor Biblo, and Doctor Bodware bein		
5 care physician - if, in fact, he should ha		
6 told he could not exercise or given the <b>r</b>		
7 doing it, who had that responsibility?		
8 MS. CARULAS: objection.		
9 THE WITNESS: Any physicia	n that	
has a relationship with the patient.		
MS. S P E W : That's it, doctor.		
12000		
Thereupon, the deposition		
4 <b>was</b> concluded at 4:15 p.m		
.5	•	
l 6		
17		
<b>8</b> 9		
20		
2		
23		
24		
25		
	Page 178	
1 CERTIFICATE STATE OF OHIO, )		
3 COUNTY OF CUYAHOGA. )		
4		
5 I, Priscilla A. Hefner, a Notary Public within		
6 and for the State of Chio, duly commissioned and		
7 qualified, do hereby, certify that the foregoing		
8 witness was first duly sworn to testify the truth,		
9 the whole truth, and nothing but the truth; that the		
$0 \hspace{0.1 cm} \mbox{testimony then given by him was reduced to writing by} \hspace{0.1 cm}$		
1 means of Stenotype; that said Stenotype notes wen		
2 subsequently transcribed in the absence of said		
3 witness; that the foregoing is a true and correct		
4 transcript of the testimony then given by the witness		
5 as aforesaid; that I am not a relative, attorney, or		
6 counsel of any party or otherwise interested in the		
7 events of this action.		
8 IN WITNESS WHEREOF, I have bercunto set my		
19 hand and affixed my Seal of Office in Cleveland,		
20 Ohio, this day of 1997.		
21		
12		
Priscilla A Hefper		
Notary Public in and for the State of Ohio.		
25 My commission expires:		

agencie werde