		Page 1
1	State of Ohio,)	
)	
2	County of Cuyahoga.)	
3		
4		
5	IN THE COURT OF COMMON PLEAS	
6	— — —	
7	Nola Vargo, Administratrix,)	
	et al.,	
8)	
	Plaintiffs)	
9)	
	vs.) Case No. 447160	
10		
	The Cleveland Clinic)	
11	Foundation, et al.) Judge Nancy M. Russo	
12	Defendants.)	
13		
14	DEPOSITION OF PATRICK N. WHELAN, M.D.	
15	Friday, April 26, 2002	
16	— — —	
17	The deposition of PATRICK N. WHELAN, M.D., called on behalf of	
18	the plaintiffs for examination under the Ohio Rules of Civil	
19	Procedure, taken before me, Kristin A. Beutler, a Registered	
20	Professional Reporter and Notary Public in and for the State of	E
21	Ohio, pursuant to agreement of counsel, at Reminger & Reminger	
22	Co., L.P.A., The 113 St. Clair Building, Cleveland, Ohio,	
23	commencing at 10:00 a.m. on the day and date above set forth.	
24		
25		

	Page 2		Page 4
1	APPEARANCES:	1	Q. As an intern first?
	On behalf of the Plaintiff:	2	
2		3	
3	John F. Norton, Esq. Cambridge Square Building	4	
	8251 Mayfield Road	5	-
4	Suite 200	6	
5	Chesterland, Ohio 44024 440-729-8100	7	a medical intern, because that's the way it is set up there.
6	On behalf of Defendant The Cleveland Clinic Foundation:	8	
7	Edward Taber, Esq.	9	
	Arter & Hadden	10	
8	1100 Huntington Building Cleveland, Ohio 44114	10	
9	216-696-2171	11	
10	On behalf of Defendant Kaiser Permanente:		
11	Marc Groedel, Esq. Reminger & Reminger Co., L.P.A.	13	
12	The 113 St. Clair Building	14	
	Cleveland, Ohio 44114	15	
13	216-687-1311	16	
14 15		17	
16		18	
17		19	
18 19		20	
20		21	
21		22	
22 23		23	
24		24	
25		25	Q. And then you went into a fellowship in pulmonary
	Page 3		Page 5
1	Page 3 PATRICK N. WHELAN, M.D.	1	Page 5 medicine?
1 2	Ť	1 2	medicine?
	PATRICK N. WHELAN, M.D.	1 2 3	medicine? A. And critical care, that's correct.
2	PATRICK N. WHELAN, M.D. called on behalf of the plaintiffs, having been first		medicine?A. And critical care, that's correct.Q. And critical care. And that was at Metro?
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	Page 6		Page 8
	Q. And you were with Ohio Permanente Medical Group until	1	Q. What is the focus of pulmonary medicine?
2	sometime in 2000; is that correct?	2	A. Lung disease.
3	A. Correct, July 2000.	3	Q. Give me some examples.
4	Q. And in what capacity were you employed by Ohio	4	A. Asthma, COPD, sarcoidosis, interstitial lung disease.
5	Permanente Medical Group?	5	Q. The difference between an internist and somebody that is
6	A. I worked as a hospitalist and I divided my time between	6	certified in pulmonary medicine would be in terms of these
7	inpatient medical service. I also worked in the clinical	7	diseases of the lung you just mentioned; the pulmonary man
8	decision units at Parma and at CCF.	8	would have a greater depth of understanding or greater, more
9	Q. Where did you act as a hospitalist for OPMG?	9	intense focus of training?
10	A. CCF.	10	A. More intense focus of training, yes.
11	Q. That's Cleveland Clinic Foundation?	11	Q. What is the subject matter of critical care medicine?
12	A. Correct.	12	A. That's taking care of people in a critical care setting
13	Q. And in that capacity you looked after patients who were	13	who meet the criteria to be in intensive care.
14	admitted to the Clinic on the Kaiser service?	14	Q. How do the skills of a critical care physician differ
15	A. Correct.	15	from those of somebody that's Board certified in internal
16	Q. They were Kaiser patients?	16	medicine?
17	A. Mostly.	17	A. One has more advanced training in medical care
18	Q. In the hospital setting, does the hospitalist assume the	18	management, hemodynamic monitoring, certain therapies conducted
19	role of the attending?	19	in intensive care that wouldn't be conducted elsewhere in the
20	A. To the patients to whom to his assigned patient, yes.	20	hospital.
21	Q. Well, what is the role of a hospitalist in caring for a	21	Q. Now, in March of 2000, were you on service as a
22	patient that has been admitted to the hospital and assigned to	22	hospitalist for OPMG at Cleveland Clinic?
23	that person?	23	A. At least part of March, yes.
24	A. To assume the role as attending physician.	24 25	Q. And, say, March 3rd to March 16th, were you on duty?
25	Q. And that would include overall responsibilities for the	25	A. Let me refer to my notes, if I may.
	Page 7		Page 9
1	patient's care?	1	March 3rd, that would be yes. And March 16th, I do not
2	A. Assigned to me, yes.	2	know for sure about March 16th, but I can tell you I was
3	Q. And in caring for patients assigned to you as a	3	definitely there until March 15th.
4	hospitalist at Cleveland Clinic Foundation, were you assisted	4	Q. Okay. During that period of time, specifically, from
5	by other physicians?	5	March 3rd 2000 to March 15, 2000, was one Nola Hasto admitted
6	A. Residents, and other attending physicians in consult if	6	to the hospital under your service?
7	necessary.	7	A. Correct.
8	Q. And the residents would be, to your knowledge, employees	8	Q. And why was she admitted to the hospital?
9	of the Clinic?	9	A. She was admitted with chest pain. She had shown up at
10	A. To my knowledge, yes.	10	the pain clinic, I believe, in Parma and had reported that she
11	Q. The attendings that you would be working with would be	11	was having chest pains there and initially admitted to the CDU
12	other physicians, members of Ohio Permanente Medical Group?	12	in Parma, and from there to CCF.
13	A. Mostly, but there were also some CCF attendings if OPMG	13	Q. Why was she admitted to CCF, for what purpose?
14	did not have the coverage for that particular subspecialty or if they didn't have that subspecialty at all	14	A. For further investigation of the chest pains.
15	if they didn't have that subspecialty at all.	15	Q. In terms of what possible causes?
16	Q. But to the extent that OPMG covered a needed specialty or subspecialty, the attendings you worked with were other OPMG.	16	A. Well, she had a preexisting history of atherosclerotic
17	or subspecialty, the attendings you worked with were other OPMG doctors?	17 18	cardiac disease. That was the primary concern at the time that she was admitted.
18	A. Yes.	10	Q. Did you familiarize yourself with her records at the
20	Q. Now, internal medicine is a primary medical specialty,	20	Parma emergency CDU unit?
120		20	A. Not there, but I would have had access to some of the
21	correct?	1 64 1	The first more, but I would have had needs to some of the
21	correct? A. Correct.	22	information that was sent with her when she was first admitted
22	A. Correct.	22 23	information that was sent with her when she was first admitted to CCF.
	A. Correct.Q. The primary one. Where does pulmonary medicine fit into	22 23 24	to CCF.
22 23	A. Correct.	23	

	Page 10		Page 12
1	the hospital?	1	Q. Why?
2	A. They would not necessarily have sent all of her records,	2	A. Because they fall more easily if they have those kind of
3	but they would have sent some of her records.	3	medical conditions which predispose them to fall, or
4	Q. And it's true, isn't it, that OPMG has most of its, in	4	statistically have conditions that might make them bleed more
5	fact, has all of its patients on an electronic data base?	5	easily in certain circumstances. But old age, per se, is not a
6	A. That's correct.	6	risk to be on heparin.
7	Q. So that anytime you wanted to check up on the past	7	Q. Susceptibility to fall or other medical conditions, that
8	history of a given patient you could access the data base?	8	makes an increased risk for the elderly; is that it?
9	A. Me personally?	9	A. That's correct.
10	Q. Yes.	10	Q. Are you familiar with Dr. Neidermaier?
11	A. I didn't do that very often.	11	A. Yes.
12	Q. But you could?	12	Q. Who is he?
13	A. I could, yes.	13	A. He's a cardiologist that used to work for OPMG.
14	Q. That's the purpose of the data base?	14	Q. He saw Nola Hasto shortly after she was admitted to the
15	A. Correct.	15	hospital; is that correct?
16	Q. But in any event, you had some of the records that came	16	A. His first note was on 3/3/00, that's correct.
17	with Nola when she was admitted to the hospital?	17	Q. So he was the OPMG cardiologist. Was he called in on
18	A. Correct.	18	consultation?
19	Q. Now, according I tried to determine exactly when she	19	A. Yes.
20	was admitted to the Clinic, and the best I was able to	20	Q. To examine her with reference to her heart condition?
21	determine was from a nursing note written on March 2nd at 3:45	21	A. Correct.
22	in the afternoon. It appears that was the time that she came	22	Q. And you indicated that she was on heparin or placed on
23	into the hospital. In any event, that nursing note states,	23	heparin because of her heart condition?
24	"Heparin maintained since transfer." Did you know that she had	24	A. Correct, or because of some concerns about her heart
25	come to the Clinic while on heparin?	25	condition.
	Page 11		Page 13
1	A. I do not recall that specifically.	1	Q. Are you able to read his note?
2	Q. Was she placed on heparin when she arrived at the	2	A. Most of it, yes.
3	Clinic?	3	Q. It appears that from his note, and you have it in front
4	A. I do not recall that specifically.	4	of you, but I have written some notes, apparently he's decided
5	Q. You have the record.	5	to order a stress echo for her?
6	A. Okay. The notes on 3/2/00 by Dr. Ziolo appear to	6	A. Yes, that's correct.
7	indicate that, yes.	7	Q. That's an examination of the heart?
8	Q. Why did she come you don't know that she came. Why	8	A. That's a test to look at the heart, yes.
9	was she placed on heparin when she arrived at the Clinic?	9	Q. And didn't he order didn't he suggest that heparin
10	A. Because there was a concern that she might be having	10	could be stopped?
11	unstable angina.	11	A. May stop heparin.
12	Q. So the heparin was prescribed pending workup of her	12	Q. What does that mean, may stop?
13	heart condition?	13	A. Consider, it's possible to stop.
14	A. Correct.	14	Q. In other words, from a cardiology perspective, he wasn't
15	Q. And what is heparin?	15	necessarily concerned that she remain on heparin?
16	A. It's an anticoagulant drug.	16	A. He didn't feel it was absolutely essential, yes.
17	Q. Does it present any risks to an elderly woman?	17	Q. And then you saw her that same day following Dr.
18	A. Presents risks to everybody.Q. What's the nature of the risk?	18	Neidermaier?
19 20	Q. What's the nature of the risk?A. Makes one more likely to bleed.	19 20	A. I don't know if I saw her following him or not. I may have written my note afterward, but I could have seen her
20	Q. Is this risk greater in the elderly than it is in	20	before Dr. Neidermaier.
21	younger people?	21	Q. But your note is written after?
23	A. Being old, per se, is not an additional risk to a person	23	A. Correct.
1			
124	being on heparin, but, statistically, people who are older have	124	O. The same day, but after?
24 25	being on heparin, but, statistically, people who are older have more potential risks to have trouble with heparin.	24 25	Q. The same day, but after?A. Correct.

1	Page 14		Page 16
1	Q. Now, although Dr. Neidermaier, the cardiologist, said	1	Q. Were you aware of that order?
2	the heparin could be stopped, in fact, it was not stopped,	2	A. I don't recall.
3	correct?	3	Q. Why would it have been ordered?
4	MR. TABER: Objection.	4	MR. TABER: Objection.
5	MR. GROEDEL: Objection. You can go ahead and	5	A. Even though the lady was felt not to require intravenous
6	answer.	6	heparin anymore, there were perhaps felt to be indications for
7	A. I don't know that.	7	subcu heparin, because the indications for subcu heparin are
8	Q. Well, you can refer to your notes.	8	not the same for IV heparin.
9	A. I do know that the next day I wrote, on 3/4/00, "Would	9	Q. What's the difference?
10	restart heparin IV if this lady has any more chest pain."	10	A. Subcu heparin is generally given as a prophylactic drug
11	Q. You wrote that on the 4th?	11	against deep venous thrombosis.
12	A. Correct.	12	Q. Now, your note of March 4th indicates that you would,
13	Q. Well, you can determine on what days she received	13	quote, "Restart IV heparin if lady has any more chest pain." I
14	heparin by looking at the medication record in the chart,	14	think you wrote that.
15	couldn't you?	15	A. I would restart heparin IV if this lady has any more
16	A. Yes, I could.	16	chest pain.
17	MR. NORTON: Do you have that, Marc?	17	Q. Right. So from that note it appears that you were aware
18	MR. GROEDEL: Do you have it?	18	that the heparin, drip heparin, had been stopped, but subcu had
19	Q. Doctor, I'm handing you a folder containing what is the	19	been given?
20	copies of the medication records of Nola Hasto from March 2nd	20	A. I was aware that the drip heparin had been stopped.
21	through the 16th, and it looks to me from that record that she	21	There's no indication in this note to indicate that I knew for
22	received heparin from admission through the morning of March	22	sure.
23	7th, if you want to take a look at it.	23	Q. Wouldn't you want to know what orders were being written
24	A. Says, "DC heparin drip," 3/3. I'm not familiar with how	24	for a patient that you were responsible for?
25	further with what these columns are, what specifically that	25	A. It's not that I did not know at the time, it's just that
	Page 15		Page 17
1	means, these notations, but there's certainly a notation on	-1	I can't recall at present, and the note doesn't indicate that.
2	3/3, says "DC heparin drip."	2	Q. But at the time, that's something you should have been
3	Q. Would that have been in response to a doctor's order?	3	aware of?
4	A. Most likely.	4	
			A. Yes.
5	Q. And would you have written the order, or	5	A. Yes.Q. So you were concerned that if she had any more chest
5 6	-		
	Q. And would you have written the order, or	5	Q. So you were concerned that if she had any more chest
6	Q. And would you have written the order, orA. Not necessarily.	5 6	Q. So you were concerned that if she had any more chest pain you would restart the drip heparin?
6 7	 Q. And would you have written the order, or A. Not necessarily. Q. Who would have written it? A. Most likely, one of the residents. Q. Would that have been a resident assigned to your team? 	5 6 7	Q. So you were concerned that if she had any more chest pain you would restart the drip heparin?A. Correct.
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6 7 8 9 10 11 12	 Q. And would you have written the order, or A. Not necessarily. Q. Who would have written it? A. Most likely, one of the residents. Q. Would that have been a resident assigned to your team? A. Or somebody that was cross-covering, one or the other. Q. It would be somebody you would be responsible for? A. For their conduct, yes. 	5 6 7 8 9 10 11 12	 Q. So you were concerned that if she had any more chest pain you would restart the drip heparin? A. Correct. Q. So on the 4th, at least, your concern for this woman was of cardiac origin? A. Correct. Q. And in that connection, you were interested in using heparin to maintain her?
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q. And would you have written the order, or A. Not necessarily. Q. Who would have written it? A. Most likely, one of the residents. Q. Would that have been a resident assigned to your team? A. Or somebody that was cross-covering, one or the other. Q. It would be somebody you would be responsible for? A. For their conduct, yes. Q. How about for their order? A. Ultimately, yes. Q. Do you have the doctors orders in the chart? Let me see if I have them. A. Yes, I do. Q. It appears that although well, was there an order for heparin written on March 4th? A. Subcu heparin, yes. Q. Whose order was that? A. Dr. Boyle's. Q. Dr. Boyle would have been a member of the blue team you 	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q. So you were concerned that if she had any more chest pain you would restart the drip heparin? A. Correct. Q. So on the 4th, at least, your concern for this woman was of cardiac origin? A. Correct. Q. And in that connection, you were interested in using heparin to maintain her? MR. TABER: Objection. A. Not on the 4th, I wasn't. Q. If she had more chest pain? A. That's a hypothetical question, if she had more chest pain. Q. Right. But at that point, at any rate, she was on subcu heparin? A. Correct. Q. Now, apparently, from my reading of the record, she was placed back on IV heparin on the 5th, the next day? A. That's correct.

	Page 18		Page 20
1	Q. Is that Dr. Boyle's order?	1	that for sure.
2	A. I don't know, I haven't looked at the order, but I can	2	Q. Now, after the catheterization Dr. Neidermaier wrote
3	look for you. Yes.	3	another note on the 7th?
4	Q. So, again, this is an order written by a resident who	4	A. I have a note here from the 8th.
5	was caring for one of your patients?	5	MR. GROEDEL: 7th or 8th?
6	A. Correct.	6	MR. NORTON: 7th.
7	Q. If you had disagreed with that order, you would have	7	MR. GROEDEL: Postcath?
8	stopped it?	8	MR. NORTON: Right.
9	A. Correct.	9	A. I don't see a note from him from the 7th, I see a note
10	Q. And you didn't stop it?	10	from the 8th.
11	A. Correct.	11	MR. GROEDEL: On the bottom.
12	Q. From the record do you know independently of the	12	THE WITNESS: But it's definitely the 8th.
13	record why the drip heparin was started again on the 5th?	13	MR. GROEDEL: Right, it's the 8th.
14	A. Because Mrs. Hasto had some chest pain sometime on	14	Q. So the 8th Dr. Neidermaier saw her again, according to
15	3/5/00.	15	the notes?
16	Q. That would have been consistent with your earlier note	16	A. Correct.
17	of the 4th?	17	Q. Is that before or after you saw her? You wrote a note
18	A. Correct.	18	on the 7th, so it was after you saw her then; is that right?
19	Q. And she remained on the drip until the morning of March	19	A. That would be correct.
20	7th; is that right?	20	Q. And so he's writing a note after the catheterization has
21	A. Correct.	21	been completed; is that correct?
22	Q. Sometime during the morning of the 7th it was stopped?	22	A. Correct.
23	A. Correct.	23	Q. And he's stating that she doesn't need any intervention,
24	Q. Why was it stopped?	24	wouldn't benefit from it, correct?
25	A. Because she was going for a cardiac catheterization and	25	A. He's not saying that she doesn't need it, he's saying
	Page 19		Page 21
		1	1 age 21
1	she had also fallen.	1	she wouldn't benefit from it.
12	she had also fallen. Q. When had she fallen?	12	
		1 2 3	she wouldn't benefit from it.
2	Q. When had she fallen?		she wouldn't benefit from it. Q. So he recommended continued medical management?
2 3	Q. When had she fallen?A. Sometime in the morning.	3	she wouldn't benefit from it.Q. So he recommended continued medical management?A. Correct.
2 3 4	Q. When had she fallen?A. Sometime in the morning.Q. Well, was the heparin stopped because she fell or	3 4	she wouldn't benefit from it.Q. So he recommended continued medical management?A. Correct.Q. What did that mean to you?
2 3 4 5	Q. When had she fallen?A. Sometime in the morning.Q. Well, was the heparin stopped because she fell or because she was going for a catheterization?	3 4 5	she wouldn't benefit from it.Q. So he recommended continued medical management?A. Correct.Q. What did that mean to you?A. That meant to me there was going to be medicines and
2 3 4 5 6	 Q. When had she fallen? A. Sometime in the morning. Q. Well, was the heparin stopped because she fell or because she was going for a catheterization? A. I think it was both. I can't tell you exactly which was 	3 4 5 6	she wouldn't benefit from it.Q. So he recommended continued medical management?A. Correct.Q. What did that mean to you?A. That meant to me there was going to be medicines and there was going to be no cardiology intervention planned at
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	Page 22		Page 24
1	I'm unclear what that specifically means. But she doesn't	1	Q. And, again, it was prescribed primarily for DVT
2	appear to have received it after the 15th, and possibly not	2	prophylaxis. Was there something in this patient's clinical
3	after the 14th.	3	presentation that suggested to you that she needed prophylactic
4	Q. But at least through the 14th she received it?	4	medicine for DVT?
5	A. As best as I can tell, yes.	5	A. I know that she was bed-bound at least for the initial
6	Q. What was the purpose of giving her aspirin?	6	part of her stay, and we felt because of her other medical
7	A. It's an antiplatelet agent.	7	conditions that she would benefit from DVT prophylaxis.
8	Q. Does it inhibit coagulation?	8	Q. Were there any specific clinical signs or symptoms apart
9	A. Somewhat.	9	from her bedridden condition that you were aware of that
10	Q. Is it proper to speak in terms of half-life, to speak of	10	warranted DVT prophylaxis?
11	aspirin in terms of half-life?	11	A. I do not recall.
12	A. You can talk about it in that way.	12	Q. You can look at the record.
13	Q. How long does it maintain its anticoagulant effect after	13	MR. TABER: Can we clarify at what point you
14	the dosage has stopped?	14	mean, John?
15	A. It's not really a half-life, but some people can feel it	15	MR. NORTON: From the 8th through, I think it was
16	can be up to 14 days.	16	the 12th.
17	Q. Not related to half-life, can you consider an effect up	17	MR. GROEDEL: Morning of the 13th.
18	to 14 days?	18	MR. NORTON: Or morning of the 13th.
19	A. I don't know if it's specifically related to half-life,	19	MR. GROEDEL: Do you want him to describe the
20	but it can be effective up to 14 days on the platelets. But	20	other medical conditions that he thinks was an
21	we're taught that it can have an effect up to 14 days.	21	indication, or is that what you're looking for?
22	Q. Now, when Dr. Neidermaier wrote his note on the 8th for	22	MR. NORTON: I think what I said, what clinical
23	medical management, he didn't order heparin?	23	presentations were you aware of that suggested it was
24	A. He didn't mention it.	24	appropriate to place this woman on DVT prophylaxis.
25	Q. And if I understood your earlier answers correctly, you	25	A. I can tell you that I wrote a note on the 11th which
	Page 23		
		1	Dage 25
1	C C	1	Page 25
1	didn't believe that was included in his recommendation of	1	would start ambulating Mrs. Hasto, which would indicate at
2	didn't believe that was included in his recommendation of medical management?	1 2 3	would start ambulating Mrs. Hasto, which would indicate at least until the 11th that she hadn't been walking around, which
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	Page 26	[Page 28
1	A. They may, I didn't read it.	1	Q.	Where would we find her hemoglobin?
$\begin{vmatrix} 1\\2 \end{vmatrix}$	Q. But my question is more specific. Did you see the	2	Q. A.	In the laboratory reports.
3	patient every time you wrote a note?	3	Q.	Would you be looking at her lab work in connection with
4	A. Not at the exact same time, but I did see this lady	4	_	ir continuing care of her?
5	every day.	5	A.	Yes.
6	Q. Every day. So if she had bruising, you would have seen	6	Q.	Doctor, I'm handing you a folder which contains lab
7	it?	7	~	orts. You may have it in your own records, I don't know.
8	A. Yes.	8	-	MR. GROEDEL: What do you want him to look for,
9	Q. And when you say you saw her, did you come in and look	9		John?
10	at her, did you ever physically examine her?	10	Q.	Well, when she came into the hospital in March, when was
11	A. Yes, I did.	11	the	first time her hemoglobin was taken, what date?
12	Q. So as of sometime on the 7th you were aware that she had	12	А.	In the hospital, I can tell you it was definitely done
13	fallen?	13	on t	the 3rd of March.
14	A. Correct.	14	Q.	And what was it?
15	Q. And from the 7th on you were aware that she had some	15	А.	10.8 grams.
16	bruising?	16	Q.	Is that borderline low?
17	A. I do not recall if the bruising started immediately, but	17	А.	It's low.
18	sometime during the period I recall that she had had some	18	Q.	Was it taken on the 4th?
19	bruising.	19	A.	Yes.
20	Q. What would these bruises have been signs of?	20	Q.	What was it then?
21	A. Bleeding into the soft tissues.	21	А. О	10.9.
22	Q. Is bleeding in an elderly patient who had sustained	22	Q.	How about on the 5th?
23	blunt trauma in a fall, does that present some risk to the	23	A.	10.5.
24	patient?	24	Q.	And the 6th?
25	MR. GROEDEL: Objection. You may answer.	25	A.	10.3.
	Page 27			Page 29
1	A. That's a very general question. Of course it presents	1	Q.	So she's borderline low on the hemoglobin, but it's
2	some risk, but it depends where the bleeding is, to answer it	2	-	naining pretty constant?
3	more specifically.	3	A.	Till what date?
4	Q. How about if it's bleeding just into soft tissue, as you	4	Q.	Well, from the 3rd to the 6th.
5	say?	5	À.	Yes.
6	A. If it's not substantial, it doesn't represent risk to	6	Q.	How about on the 7th?
7	most patients.	7	А.	9.7.
8	Q. How would you determine whether it is substantial or	8	Q.	9.7 on the 7th?
9	not?	9	А.	Excuse me, there's no 7th here, excuse me.
10	A. You would look at the patient and you would check their	10	Q.	What's the next one, then?
11	hematocrit and hemoglobin.	11	A.	
12	Q. So if the patient's hemoglobin was decreasing in a	12	Q.	What was it?
13	clinical picture of bruising following a fall, that would	13	A.	9.7.
14	suggest to you some loss of blood?	14	Q.	What was it on the 9th?
15	MR. TABER: Objection.	15	A.	
16	MR. GROEDEL: Objection. You may answer.	16	Q.	Well, is that a significant drop in hemoglobin from,
17	A. If it was decreasing substantially, yes, but a small	17		s say from the 4th at 10.9 to the 8th at 8.9?
18 19	decrease would not necessarily indicate that. MR. TABER: John, may I ask for clarification?	18 19	A.	
20	When you say bleeding, are you excluding any	20	Q. A.	
20	gastrointestinal bleeding?	20	А.	MR. GROEDEL: Objection. You may answer.
22	MR. NORTON: Bleeding is bleeding.	22	A.	
23	MR. TABER: Okay.	22		be taken in clinical context.
24	MR. NORTON: I don't care whether it's from the	24	Q.	
25	nose or wherever.	25		d a unit of blood?

	Page 30		Page 32
1	A. People say that it's approximately a unit of blood, but	1	conclude that between the 4th and the 9th she lost two units of
2	that's an approximate estimation.	2	hemoglobin because of bleeding, because other factors, you
3	Q. One gram is approximately one unit of blood. So if	3	said, could account for the drop in hemoglobin. So I'm
4	you're just taking two days, March 4th at 10.9, for simplicity,	4	wondering what other factors were present in that time frame,
5	and March 9th at 8.9, you have lost two grams of hemoglobin?	5	between the 4th and the 9th, to account for a two gram drop in
6	MR. TABER: Objection.	6	hemoglobin?
7	MR. GROEDEL: Objection.	7	MR. TABER: Objection.
8	A. That's not two days.	8	MR. GROEDEL: Objection. You may answer.
9	Q. No, taking two days, I didn't say they were back-to-back	9	A. I think you're asking me a very hypothetical question.
10	days, I'm just taking the easy one. 10.9 on the 4th to 3/9 to	10	There are a lot of things I could postulate.
11 12	8 is to 8.9 on March 9, is a two unit drop of blood, or two gram drop of hemoglobin?	11 12	Q. Well, the only reason I'm asking is because you're not accepting the concept that this two gram drop in hemoglobin was
12	A. Can you rephrase the full question?	12	directly related to blood loss.
14	Q. Between the 4th of March and the 9th of March, her	14	A. Because I can't prove it. I don't think anybody can
15	hemoglobin dropped two grams?	15	prove it.
16	A. Correct.	16	Q. Well, what can you postulate as other causes for this
17	Q. Which is approximately two units of blood?	17	time frame?
18	MR. GROEDEL: Objection.	18	A. That she has marrow failure for some reason.
19	A. That's hypothetical. You're assuming by stating that	19	Q. What kind?
20	question that the hemoglobin fell slowly due to blood loss, and	20	A. Marrow.
21	I don't know the answer to that question at this point.	21	Q. Bone marrow?
22	Q. Because, as you said, you have to evaluate a drop of	22	A. Possibly. There could have been a dilutional
23	hemoglobin in the clinical picture?	23	phenomenon; hemoglobin can go down because there's too much
24	A. Also, hemoglobin can fall for other reasons other than	24	fluid in the system. This lady did have cardiac disease and
25	blood loss.	25	may have been holding onto excessive amounts of fluid. She
	Page 31		Page 33
1			
	O Right that's why I say you have to evaluate it in the	1	could have been hemolyzing for whatever reason. Those are
	Q. Right, that's why I say you have to evaluate it in the clinical picture.	1	could have been hemolyzing for whatever reason. Those are things that would come to mind: I don't see any clear-cut
23	Q. Right, that's why I say you have to evaluate it in the clinical picture.A. Correct.	1 2 3	things that would come to mind; I don't see any clear-cut
2	clinical picture. A. Correct.	2	things that would come to mind; I don't see any clear-cut evidence of that right now.
23	clinical picture.	23	things that would come to mind; I don't see any clear-cut evidence of that right now.
2 3 4	clinical picture.A. Correct.Q. Now, this woman's clinical picture included a fall,	2 3 4	things that would come to mind; I don't see any clear-cut evidence of that right now.Q. As a matter of fact, you never explored any of those
2 3 4 5	clinical picture.A. Correct.Q. Now, this woman's clinical picture included a fall, correct?	2 3 4 5	things that would come to mind; I don't see any clear-cut evidence of that right now.Q. As a matter of fact, you never explored any of those other possible causes?
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1	Q. Now, continuing with the hemoglobin, on March 10th?	1	was wheezy, on 3/10, on 3/11, and on 3/12, 3/13. I did not
2	A. 8.1.	2	comment on 3/14. I did not comment on 3/15.
3	Q. Which is almost another gram, seven-tenths of a gram?	3	Q. Well, backing up, then, was this wheezing significant to
4	A. It's .8.	4	you in any way?
5	Q. So she's continuing to drop her hemoglobin on the 10th,	5	A. Yes, it was.
6	right? A. Yes.	67	Q. But it wasn't a reason you prescribed the heparin, or was it?
8	Q. And still the aspirin and the subcu heparin are being	8	A. The subcu heparin, no. The IV heparin was restarted on
9	maintained?	9	the basis of a high probability V/Q scan.
10	A. Correct.	10	Q. You're talking about the 13th of March?
11	Q. Again, for the DVT prophylaxis?	11	A. Correct.
12	A. Correct. Well, the heparin is for DVT, the aspirin is	12	Q. So what was the significance of the wheezing, then, why
13	for her cardiac condition.	13	are we talking about wheezing?
14	Q. And, again, the prophylaxis is based on the fact she's	14	A. Because this lady had major problems, at least, chest
15	not ambulating?	15	pain and wheezing. Because of her extensive past history of
16	MR. GROEDEL: Objection. You may answer.	16	atherosclerotic cardiac disease, the initial focus was on this
17	A. I don't know that anymore.	17	as a cause for both her chest pain and wheezing. When the
18	Q. Pardon?A. I do not know that beyond 3/11.	18 19	cardiac cath did not seem to show any significant progression of her disease prior to what she had before, the focus of the
19 20	A. I do not know that beyond 3/11.Q. Beyond 3/11, but I'm only up to the 10th.	20	workup changed somewhat.
21	A. So that's correct.	21	Q. From cardiac to what?
22	Q. Did there ever come a time after the 10th when there	22	A. Pulmonary.
23	were any other signs or symptoms, besides her nonambulatory	23	Q. So before the cath, the wheezing was related, you felt,
24	status, that you were concerned about in terms of the DVT?	24	was related to cardiac?
25	MR. TABER: Are we excluding test results when	25	A. We felt it was most likely, but we did not know for
	Da ~~ 25		·
	Page 11		Page 37
1	Page 35	1	Page 37
1	you say clinical signs, John?	1	sure.
2	you say clinical signs, John? MR. NORTON: Clinical signs, symptoms, findings,	2	sure. Q. After the cath, what did you relate it to?
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Page 38	Page 40
 Page 38 1 do it as often; fibrotic lung disease; bronchospasm, caused by 2 irritants; pulmonary emboli can do it, but not commonly; it can 3 be a manifestation of congestive heart failure, a phenomenon 4 called cardiac asthma. Those are the common ones that come to 5 my mind. 6 Q. And did you actually consider these various other 7 possibilities in the differential diagnosis of her wheezing? 8 A. Yes. 9 Q. And what did you conclude was the cause? 10 A. We had to go through it step-wise. Initially when this 11 lady came in she had an extensive history of coronary artery 12 disease. 13 Q. Right, I understand before March 7th you considered it 14 to be cardiac origin. 15 A. Most likely. 16 Q. Most likely. But after March 7, say between the 7th and 17 the 	 Page 40 1 without an explanation, who had relatively normal spirograms, 2 and a cardiac catheterization that wasn't suggesting that her 3 coronary artery disease was any worse than it used to be. 4 Q. So the possibility of a pulmonary embolism moved up to 5 what level on your list? 6 A. Moderately suspicious. 7 Q. Now, how would a pulmonary embolism produce wheezing? 8 A. It makes people short of breath often, and if they have 9 a preexisting condition, sometimes even if their lungs are 10 completely normal, they can develop bronchospasm as a result of 11 that. 12 Q. What are the clinical signs, or the signs and symptoms 13 of, say, a pulmonary embolism? 14 A. Shortness of breath; chest pain that's pleuritic; can 15 present with syncope; can present with lightheadedness; they 16 can cause sudden death. The physical signs are not very 17 specific for pulmonary embolus. You can have signs of
18 A. This lady carried a diagnosis of COPD, however, there	18 pulmonary hypertension on physical exam, but oftentimes the
 19 was the ringer that she had not smoked significantly in the 20 past, which did raise a red flag somewhat, as that most people 21 with COPD have smoked or do smoke or have smoked in the past. 22 Q. So what did you conclude was producing her wheezing? 23 A. At what time? 24 Q. Between the 7th and the 12th. 25 A. We focused then that her COPD might be the cause and we 	 19 exam is not very impressive. 20 Q. When chest pain occurs in a clinical setting of 21 pulmonary embolism, how would you describe its onset? 22 A. Typically, it's relatively sudden in onset. 23 Q. An acute? 24 A. Yes. 25 Q. This woman didn't have any of that?
Page 39	Page 41
 actually started steroids on this lady. Q. So between the 7th and the 12th you weren't concerned about pulmonary emboli? A. It was lower down the list. Q. Very low? A. Low at that time. Q. Was that any part of the reason that you maintained her on the subcu heparin between the 7th and the 12th? A. The subcu heparin bat were the 7th and the 12th? A. The subcu heparin had nothing to do with it. That is a possibility. That's a prophylactic drug. If you felt that this lady, strongly, this lady was wheezing because of a pulmonary embolus, the treatment would have been IV heparin, if you had in fact gotten a test which suggested that or your clinical suspicion was very strong. Q. So you didn't have a strong feeling about pulmonary embolus then until after the 13th, or on the 13th? M. TABER: And excluding the before, that he already testified about. A. I became more suspicious around the 11th and later, because the spirograms came back on the 11th not suggesting COPD as the diagnosis. Q. So you thought perhaps she was having, could have A. I think it went higher up my list, although I don't 	 A. That's correct. Q. Is tachypnea a clinical sign? A. Yes. Q. She didn't have that either? A. I didn't review that recently, so I don't know. MR. GROEDEL: Tachypnea. A. I guess I would have to look at the nurses record. Q. Tachypnea. A. I guess I would be what, respirations? A. Vital signs, probably. Q. Go ahead. A. I actually don't have any vital signs in the section labeled Vital Signs. Q. That would be in the nursing notes? A. I presume so. Just randomly looking through this record, on 3/7 her respiratory rate was 20; on 3/9 it was 20; on 3/13 it was 20; and that's technically tachypnea. Q. Twenty? A. Yes. Q. What's normal? Q. Going back, when did you say you became suspicious of
24 think I didn't feel confident that's what she had, but I	24 pulmonary embolism, the 11th?
25 think we needed to work it up. I had a lady that was wheezy	25 A. More suspicious.

	Page 42		Door 44
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	Q. More suspicious. Well, here you have a patient that's		obviously, we do not know exactly did not know exactly what
2	dropping her hemoglobin, by the 11th it's down to what?	2	was going on inside this lady's body at this particular moment
3	A. Well, I have two values on the 11th, I have 7.8 and I	3	in time, so my answer can only be speculative.
4	have 9.0.	4	Q. You know she had a hematoma on her head?
5	Q. What accounts for the dramatic difference	5	A. Yes, I do.
6	MR. TABER: Objection.	6	Q. You were concerned enough about bleeding to have ordered
7	Q on that single day?	7	a CT of her head?
8	MR. GROEDEL: Objection. You may answer.	8	A. I think anybody who falls while on IV and strikes her
9	A. I cannot explain that at this time.	9	head is going to get a head CT.
10	Q. Was she getting any saline?	10	Q. You could, if you were concerned about pulmonary
	A. I do not know, I'd have to review the records to say	11	embolism, have ordered tests to see if in fact that condition
12	that. It could be lab error, but I can only postulate that.	12	was developing in her, could have done that on the 11th when
13	I do not see any record of it.	13	her hemoglobin was 7.8?
14	Q. So there are two reads, then, on the 11th, hemoglobin,	14	A. It doesn't develop, it just happens. But we could have,
15	one at 7.8 and the other is 9.0, different times?	15	yes.
16	A. Yes, they're about, approximately, eight hours apart.	16	Q. And when would have been the venous duplex of the lower
17	Q. What hour of the day was the 7.8?A. 4:55 in the morning.	17	extremities? That was done later, but you could have done it on the 11th?
18 19	C C	18	A. Potentially, yes.
		20	Q. What is that, anyway?
20		20	A. It's an ultrasound test to see if there are clots in the
21	Q. On the 11th, wouldn't you have been concerned with that hemoglobin drop to 7.8?	21	lower extremity veins.
22	A. Somewhat.	22	Q. So, basically, it's a noninvasive test?
24	Q. In this woman, this elderly woman who had fallen on the	23	A. Correct.
25	7th and who was manifesting bruising, a drop in her hemoglobin	25	Q. It's like an x-ray?
25	7 in and who was mannesting bruising, a drop in her hemogroom		
	Page 43		
	1 ago +5		Page 45
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	Page 46		Page 48
1	A. Test was done on 3/14.	1	Q. How about, there's a film from the 9th, what does that
2	Q. What did it show?	2	say?
3	A. Negative study bilaterally for acute DVT.		A. Lungs free of acute parenchyma infiltrates. And it says
4	Q. Now, this other test that you gave for something that		that there's little appreciable change in the appearance of the
5	showed a high probability for PE, what did you call it?	5	chest from the study obtained six days earlier.
6	A. A V/Q scan.		Q. So the 9th and the 3rd are about the came?
7	Q. Is that also a noninvasive test?		A. According to the radiologist.
8	A. Yes, it is.		Q. How about on the 12th?
9	Q. How does it work?		A. They do comment of a patchy infiltrate in the right
10	A. It's a test that has two parts. The patient inhales a		lower lobe, which was commented to represent perhaps
	small amount of material that is radioactive, and they also are		atelectasis versus pneumonia. And they also talk about a 7
12	injected with a tiny amount of material that's radioactive. So the inhale test looks at the distribution of the radioactive	1	millimeter by 1 centimeter parenchymal nodule in the right
13 14	tracer within the lungs, and the injected part of the test		upper lobe. They give a differential diagnosis of what that nodule might be, and they talk about spur formation in the
15	looks at the distribution of the radioactive tracer within the		thoracic spine.
16	pulmonary circulation of the lung.		Q. So is it possible that this woman had a touch of
17	Q. Now, is it a test that's specifically diagnostic for PE?	1	pneumonia?
18	A. No, it's not.	18	MR. GROEDEL: Objection.
19	Q. Is it a test that has to be correlated with the clinical	1	A. This is a theoretical question. It's possible, but the
20	picture?	20	clinical picture didn't seem to support that.
21	A. Yes, it does.	21	Q. In any event, this infiltrate that's shown on x-ray on
22	Q. Is it a test that measures breathing?	22	the 12th is a condition which could have skewed the validity of
23	A. That's too broad a question.	23	the scan, the V/Q scan?
24	Q. Too broad. Well, are there medical conditions which can		A. It may have made it slightly more difficult to
25	skew the validity of the test?	25	interpret, yes, but not technically affect the interpretation.
	n 47		
	Page 47		Page 49
1	A. Yes.	1	
1 2			
1	A. Yes.	2	Q. Now, in the care and treatment of a patient, is it
2	A. Yes.Q. What conditions?A. Pneumonia. Any reason for the patient to have an infiltrate on their chest x-ray. Lung cancer, perhaps. People	2 3	Q. Now, in the care and treatment of a patient, is it important to know as much as you can about the patient's past
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1	Page 50		Page 52
1	(Plaintiff's Exhibit 1 was marked.)	1	interpret.
2	Q. Doctor, what I have handed you is marked as Plaintiff's	2	Q. Infiltrate on the lung?
3	Exhibit 1, it's a discharge summary for Nola Hasto from the	3	A. Correct.
4	Cleveland Clinic for admission of December 24th, 1997. Do you	4	Q. Asthma?
5	see that on examination there the physician reported that her	5	A. Asthma may, may, but not always.
6	lungs showed crackles and diffuse wheezing?	6	Q. And it is a test that requires correlation with the
7	MR. GROEDEL: Object. You can go ahead and	7	clinical picture?
8	answer these questions, but I'm going to object to any	8	A. That's correct.
9	testimony based upon what's in this discharge summary	9	Q. What in this woman's clinical picture, other than the
10	that's just been presented to the doctor without the	10	fact that she was not ambulatory, correlated with the lung scan
11	benefit of having reviewed the entire chart, and of	11	that showed high probability for PE?
12	course without reviewing this record before.	12	A. I don't quite follow your question.
13	A. You're talking about the physical examination section,	13	Q. You have told us that a lung scan has to be correlated
14	crackles in lung base and diffuse wheezing, yes, I see that.	14	with the patient's clinical picture in order to reach a
15	Q. Do you see what the ultimate diagnosis was in the case,	15	definitive diagnosis?
16	in the discharge?	16	A. That is correct.
17	A. Community acquired pneumonia.	17	Q. And my question is and you have already told us about
18	(Plaintiff's Exhibit 2 was marked.)	18	the fact that she was not ambulatory as a reason for the subcu
19	Q. Doctor, what I have handed you is Plaintiff's Exhibit 2,	19	heparin. I'm asking you what specific signs or symptoms did
20	which is a copy of the emergency department record of Kaiser,	20	this patient present that you regard as having been
21	April 16, 1997. Apparently Nola Hasto appeared at the Kaiser	21	corroborative of the V/Q scan's high probability finding for
22	emergency room on that date and her lungs were examined, do you	22	PE?
23	see that, and the note was made that her breath sounds revealed	23	A. She was short of breath, wheezy, she had a cardiac cath
24	inspiratory and expiratory wheezing?	24	that didn't show advancement of atherosclerotic disease, and
25	A. I note that.	25	most importantly she had pulmonary function tests, spirograms,
	Page 51		Page 53
1	Q. Now, this record as well as the Cleveland Clinic	1	which look relatively normal. But the lady was still wheezy
2	discharge record is something you could have accessed on the		· · · ·
		2	and had been wheezy throughout most of her course, and that
3	computer?	2 3	and had been wheezy throughout most of her course, and that struck me as being suspicious for another diagnosis other than
3 4	computer? A. Yes, sir.	1	and had been wheezy throughout most of her course, and that struck me as being suspicious for another diagnosis other than either cardiac atherosclerotic heart disease or COPD/asthma
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4	computer? A. Yes, sir. MR. GROEDEL: Objection. Q. Pardon?	34	and had been wheezy throughout most of her course, and that struck me as being suspicious for another diagnosis other than either cardiac atherosclerotic heart disease or COPD/asthma as a reason for this lady's shortness of breath and wheezing. Q. Let me try to break that down. Her cardiac condition
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1	A. Signs and symptoms, symptoms were shortness of breath	1	THE WITNESS: 3/13.
2	and continued wheeze in the face of IV steroid, which didn't	2	MR. TABER: Thank you.
3	seem to improve her condition significantly. Those would be	3	Q. Okay. Now, the description of mild shortness of breath,
4	the wheeze in the face of the fact that the pulmonary function	4	that would not represent an acute onset of PE, would it?
5	test looked relatively normal, and in the face of the fact that	5	A. That's a very vague question.
		1	
6	cardiac catheterization did not seem to show significant	6	Q. PE presents acutely, doesn't it?
7	progression compared to previous examinations of her	7	A. Not always, you can have more than one and end up with
8	atherosclerotic cardiac disease.	8	chronic shortness of breath. What you're talking about is one
9	Q. So basically it's the wheeze?	9	single acute pulmonary embolus, and please realize this lady
10	MR. TABER: Objection.	10	could have had more than one which produced an accumulative
11	MR. GROEDEL: Objection, asked and answered three	11	shortness of breath. Also realize that not all patients who
12	times now, John.	12	have an acute pulmonary embolus present with shortness of
13	A. I think you're trying to paraphrase what I'm saying, and	13	breath, but their typical presentation is acute shortness of
14	I've already made my statements pretty clear.	14	breath.
15	Q. Now, are you saying that she was having a PE, or she was	15	Q. In terms of the shortness of breath, we have the one
16	at risk for a PE on the 13th?	16	note on the 11th, Dr. Ziolo, mild dyspnea on exertion, and this
17	A. Based on the clinical information, both physical	17	one on the 13th, blue intern, mild shortness of breath. Any
18	examination, history, and some of the test results, plus a high	18	others?
19	probability V/Q scan, I felt that the balance of probabilities	19	A. Not that I can determine.
20	was that this lady most likely had one or more pulmonary	20	Q. So reflecting on the answer that you gave earlier about
21	emboli.	21	the basis for your belief that her clinical picture correlated
22	Q. You figured she had one?	22	with the high probability PE lung scan
23	A. I can't tell for sure, but the balance of probabilities	23	A. No, it did not correlate, but the two together led me to
24	and the clinical suspicion was very strong, based on the	24	believe that it was likely this lady had a pulmonary embolus.
25	information available to me on the 13th.	25	Q. And as I listen to you, that basis that you have
25	mormation available to me on the 15th.		
	Page 55		D 77
			Page 5/
	-	Ι.	Page 57
1	Q. Taking the clinical sheets, yours and Dr. Boyle's, from	1	expressed could be divided into two categories; one, those
2	Q. Taking the clinical sheets, yours and Dr. Boyle's, from the 9th to the 13th, I didn't find any note that she was short	2	expressed could be divided into two categories; one, those signs which are positive, such as shortness of breath, positive
2 3	Q. Taking the clinical sheets, yours and Dr. Boyle's, from the 9th to the 13th, I didn't find any note that she was short of breath. If you can find one, please identify it for me,	23	expressed could be divided into two categories; one, those signs which are positive, such as shortness of breath, positive in the sense that they're observable; and two, those
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1	Page 58			Page 60
1	V/Q scan came back as high probability.	1	A. I	Based, yes, one or more.
2	Q. Well, I understand that when she came in she was	2		It wasn't in her lower extremities?
3	wheezing almost every day. But after the 9th she when she	3		Well, pulmonary emboli are pulmonary by definition.
4	came in on the 2nd, she had early complaints of shortness of	4		They start out in the lower extremities?
5	breath, but they diminished?	5		Not always, but mostly they do.
6	MR. GROEDEL: Objection.	6		So you chose IV heparin with its risk of hemorrhage over
7	MR. TABER: Objection.	7		C filter because the filter only catches that which is to
8	A. You cannot make that conclusion based on the record.	8	come a	and doesn't deal with that which is present already?
9	Q. You mean that doctors get tired of writing in the chart?	9		That is to come from the lower extremities, yes.
10	A. No, but we don't ask every question every day. There's	10	Q. 5	So you felt that as of the 13th this woman had a
11	definitely some indication this lady was short of breath, plus	11	pulmo	nary embolism that had reached the lungs?
12	the fact shortness of breath is a subjective complaint.	12		MR. TABER: Objection.
13	Q. True. It could be caused by pain?	13	A. (One or more.
14	A. There are numerous causes for it, it's subjective.	14		MR. TABER: Asked and answered.
15	Q. Somebody that's bleeding into the soft tissue of the	15		One or more. And you selected the IV heparin over the
16	chest might have pain from that internal hemorrhage?	16	IVC fi	ilter on the 13th even though on that day, the 13th, her
17	A. Possibly.	17	hemog	globin had dropped to 7.9?
18	Q. But in any event, at the risk of incurring another	18		I need to review the lab results again.
19	objection from Mr. Groedel, it's the shortness of breath,	19	Q. 1	That's fine.
20	wheezing, observable, plus the two exclusions that we talked	20	A. (Correct.
21	about that you felt suggested to you that this woman had a PE?	21	Q. I	How do you regard a hemoglobin of 7.9?
22	MR. GROEDEL: Objection. You may answer.	22	A. I	It's low.
23	A. Plus the V/Q scan that was high probability.	23		On the 13th were you concerned about her bleeding?
24	Q. Right, exactly. And that's why you started the infusion	24		You're concerned of it with any patient, heparin
25	of heparin then on the 13th?	25	bleedi	ng.
	Page 59			Page 61
1	A. Basically, yes.	1	Q. I	Did you have any specific concerns for this patient?
2	Q. And when you started this heparin on the 13th, you were	2		She was already low, so we needed to watch her, and
3	aware that this presented some risk of further hemorrhage on	3		what we did.
4	this woman's part?	4		Now, this woman had a prior heart attack; you were aware
5	A. It presents risk of hemorrhage to everybody.	-	0. N	
6	Q. So you're aware of the risk?	5		
	Q. Do joure an are of the fish.	5 6	of that	
7	A. Yes, I am.	-	of that A. Y	?
7 8	A. Yes, I am.	6	of that A. Y Q. 1	? Yes. 1997, I think, sometime.
	A. Yes, I am.	6 7	of that A. Y Q. 1 A. I	? Yes.
8	A. Yes, I am.Q. But apparently in your risk-benefit analysis you felt	6 7 8	of that A. Y Q. 1 A. I refer to	? Yes. 1997, I think, sometime. I knew that she had a prior heart attack. I need to
8 9	A. Yes, I am.Q. But apparently in your risk-benefit analysis you felt the risk of hemorrhage was less significant than the risk of	6 7 8 9	of that A. Y Q. 1 A. I refer to Q. I	?? Yes. 1997, I think, sometime. I knew that she had a prior heart attack. I need to o the notes to know exactly when it was.
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8 9 10 11	A. Yes, I am.Q. But apparently in your risk-benefit analysis you felt the risk of hemorrhage was less significant than the risk of PE?A. Of an untreated PE?	6 7 8 9 10 11	of that A. Y Q. 1 A. I refer to Q. I A. C Q. A	? Yes. 1997, I think, sometime. I knew that she had a prior heart attack. I need to to the notes to know exactly when it was. It was before this admission? Correct.
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	Page 62		Page 64
i	told us?	1	MR. GROEDEL: Objection.
2	A. Yes.	2	A. That's highly speculative, you don't know that for sure,
3	Q. And so on the 13th you knew that she was bleeding	3	there's no objective definitive
4	someplace?	4	Q. You know she was bleeding into the soft tissue because
5	A. No, I don't think you can make that conclusion.	5	there were bruises on her torso.
6	Q. You knew she had a drop in hemoglobin to 7.9?	6	A. I don't know if she was actively bleeding at that point;
7	A. I knew her hemoglobin was 7.9 grams.	7	she had bled at some point.
8	Q. Which is four-tenths of a gram lower than the day	8	Q. Now, coumadin is much longer lasting than even IV
9	before?	9	heparin?
10	A4, yes.	10	A. Much longer lasting.
11	Q. And three full grams lower than on March 4th?	11	Q. And the combination of IV heparin and coumadin on the
12	A. Yes.	12	14th is a powerful anticoagulant?
13	Q. And because of the drop of hemoglobin, you felt it was	13	A. Not actually, because the coumadin takes about 48 hours
14	important to give her a transfusion?	14	to start working. It interferes with vitamin K, then the
15	A. Yes.	15	factors that are made by vitamin K do last a certain one to two
16	Q. And so she got two units of blood, right?	16	days, so at that point it wouldn't have had much effect. The
17	A. Correct.	17	dose that she got on the 13th wouldn't really have had
18	Q. Now, even after the two units of blood, which brought	18	significant effect on the 14th.
19	her hemoglobin back up to 11 on the 14th, she continued to drop	19	Q. The coumadin was on the 14th, I believe, Doctor. Take a
20	hemoglobin, so that it was 7.3 on the 15th, correct?	20	look.
21	A. I'm looking for those labs, because my pages are not	21	A. Okay.
22	contiguous. Here we go. Your question again, please?	22	Q. So is it your testimony that the coumadin on the 14th
23	Q. Even after two units of blood having been given on the	23	had no role to play in the drop of her hemoglobin to 7.3 on the
24	13th, which brought her hemoglobin back up to 11 on the 14th,	24	15th?
25	she's back down to 7.3 on the 15th?	25	A. On the 14th, it had little contribution.
ļ			
	Page 63		Page 65
1	A. Correct.	1	Q. Some?
2		1	
1 4	Q. A significant drop in hemoglobin?	2	A. It's hard to tell exactly. I don't know, there's a lot
3	A. Correct.	3	A. It's hard to tell exactly. I don't know, there's a lot of variability and possibilities here.
3 4	A. Correct.Q. That's better than three grams of hemoglobin in one day,		A. It's hard to tell exactly. I don't know, there's a lot of variability and possibilities here.Q. Now, because of the drop in her hemoglobin to 7.3 on the
3 4 5	A. Correct.Q. That's better than three grams of hemoglobin in one day, between the 14th and the 15th?	3 4 5	 A. It's hard to tell exactly. I don't know, there's a lot of variability and possibilities here. Q. Now, because of the drop in her hemoglobin to 7.3 on the 15th, it became necessary to transfuse her again?
3 4 5 6	A. Correct.Q. That's better than three grams of hemoglobin in one day, between the 14th and the 15th?A. Correct.	3 4 5 6	 A. It's hard to tell exactly. I don't know, there's a lot of variability and possibilities here. Q. Now, because of the drop in her hemoglobin to 7.3 on the 15th, it became necessary to transfuse her again? A. Correct.
3 4 5 6 7	 A. Correct. Q. That's better than three grams of hemoglobin in one day, between the 14th and the 15th? A. Correct. Q. Weren't you concerned that she was bleeding 	3 4 5 6 7	 A. It's hard to tell exactly. I don't know, there's a lot of variability and possibilities here. Q. Now, because of the drop in her hemoglobin to 7.3 on the 15th, it became necessary to transfuse her again? A. Correct. Q. And this time the transfusion was four units of blood?
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1	Page 66		Page 68
1	250 cc bolus. On the 16th there was an additional liter.	1	saline would increase cardiac output.
1	Q. Now, it's true, isn't it, that if you have decreased	2	Q. Increase the workload of the heart, heart's pumping
	hemoglobin you have decreased oxygenation of the blood?	3	faster?
4	A. Not technically, you just have less ability to carry	4	A. Not necessarily. There's not a direct relationship
1	oxygen. The blood is still oxygenated.	5	between how much cardiac output is there and how hard the heart
6	Q. But you have decreased oxygenation of tissue as a result	6	has to work.
7	of decreased hemoglobin?	7	Q. Would you agree that given the negative duplex on the
8	MR. TABER: Objection. Same question.	8	14th, the risk for recurrent PE was low?
9	A. Not entirely, it depends on the body's demand for	9	MR. TABER: Objection.
10	oxygen. Many people with slight anemia do not have difficulty	10	MR. GROEDEL: Objection. You may answer.
11	oxygenating their tissues.	11	A. That's a hypothetical question. There's so many other
12	Q. The lower the hemoglobin, the less oxygenation you're	12	reasons why this lady potentially could have developed a clot
13	going to get?	13	in her leg after the duplex. People sometimes do develop
14	A. No, it depends on the demand.	14	pulmonary emboli even in the face of a negative lower extremity
15	Q. Let's take one person lying in bed doing nothing except	15	duplex.
16	breathing, the same person.	16	Q. Do you believe four units of blood and the saline that
17	A. We're talking hypothetically?	17	was given on the 15th increased the workload of the heart?
18	Q. Yeah, because I'm just trying to get an answer, that's	18	A. No.
19	all.	19	Q. Why was that given?
20	A. The lower the hemoglobin, the lower likelihood of	20	A. Because her hemoglobin was low and because we needed to
21	oxygenating the tissues, but there are so many other variables	21	resuscitate this lady.
22	it's difficult for me to answer that question in isolation.	22	Q. And all that fluid didn't overload her heart?
23	Q. If you have decreased oxygenation secondary to decreased	23	A. I don't know the answer to that.
24	hemoglobin, together with decreased blood volume, are you not	24	Q. Could it have?
25	increasing the work of the heart?	25	MR. GROEDEL: Objection.
	Page 67		Page 69
1	A. Yes.	1	Q. Potentially, if it overloaded the heart, how could that
2	Q. Is it the purpose of the well, let me strike that.	2	affect somebody's diastolic dysfunction?
3	The normal saline infusions increase blood volume,	3	A. Become more short of breath, perhaps more edematous.
4	correct?	4	Q. It would result in pulmonary congestion, possibly?
5	A. Circulating fluid volume.	5	
6	Q. But not hemoglobin?		A. Possibly, yes.
		6	Q. Did you ever consider using dopamine to raise pressure
7	A. No.	6 7	Q. Did you ever consider using dopamine to raise pressure instead of normal saline?
7 8		6 7 8	Q. Did you ever consider using dopamine to raise pressure instead of normal saline?A. It can be given, yes, but the problem is, if somebody is
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1	MR. TABER: Objection.	1	medicine or wherever, did you become familiar with the concept
2	A. There are too many variables. It could.	2	of hypovolemia?
3	Q. Could it result in pulmonary congestion?	3	A. Yes, I did.
4	A. If the kidneys were not secreting urine appropriately.	4	Q. What is it?
5	That's provided you're assuming that the kidneys had some acute	5	A. It's where there's reduced circulating fluid volume
6	problem. It potentially could.	6	which can potentially lead to hypoperfusion of certain vital
7	Q. According to the nurse notes, 150 cc's	7	body structures.
8	A. There are many explanations potentially for that.	8	Q. Can you tell me what some of the possible causes of
9	Q. What, for instance?	9	extrarenal hypovolemia would be?
10	A. If she was hypoperfusing, the kidneys don't make urine	10	A. Blood loss; dehydration; extravasation of fluid, such as
11	if her volume status was reduced.	11	a burn patient or somebody who's very septic.
12	Q. Hypoperfusion?	12	Q. Does the correlation of BUN and creatinine give you some
13	A. Of the kidneys.	13	method of measuring whether or not a patient is hypovolemic?
14	Q. Meaning decrease in circulating blood volume?	14	A. It can be an indicator, but there are other confounding
15	A. Not necessarily decrease in the pressure within the	15	factors, and it's not solely a reliable test of hypovolemia.
16	kidneys, but potentially as a result of decreased circulating	16	Q. Normally, the relationship between BUN and creatinine is
17	fluid volume, but that's speculative at this point.	17	ten to one?
18	Q. And hypoperfusion of the heart will affect the heart	18	A. Approximately, yes.
19	muscle as well?	19	Q. At what level, how high does the BUN have to get over
20	A. Through the mechanism of ischemia, potentially, yes.	20	the creatinine in order to come up with a sign of hypovolemia?
21	Q. Did you consider using a will you agree that the	21	A. You're talking purely I can only answer that question
22	potential for fluid overload in this woman was present on the	22	if talking hypovolemia in the absence of any other confounding
23	13th given her non-urine output or limited urine output and	23	factors.
24	infusion of all this blood and saline?	24	Q. All right.
25	MR. GROEDEL: Objection.	25	A. Twice.
	Page 71		Page 73
1	A. Yes, it's a possibility, yes.	1	Q. Double?
2	Q. So on the one hand, it's important to bring the pressure	2	A. Double.
3	up?	3	Q. Did you ever monitor this patient's creatinine and BUN?
4	A. Correct.	4	A. Yes, we did.
5	Q. On the other hand, you don't want to fluid overload,	5	Q. Did it give you any indication that she was hypovolemic?
6	that's something you want to avoid?	6	A. It could have indicated it, but there were other reasons
7	A. Yeah, but it's difficult in clinical practice to	7	potentially why this lady's creatinine or she had a GI bleed
8	precisely determine that.	8	in addition, and that could alter her BUN also. We think she
9	Q. The reason you don't want to fluid overload is because	9	had a GI bleed, at least we thought on the 15th.
10	it puts a burden on the heart?	10	Q. That's because on the 15th she had a guaiac-positive
11	A. Among other structures, yes.	11	stool?
12	Q. And certainly on the heart, correct?	12	A. Yes, plus she had dropped her H & H.
13	A. Yes.	13	Q. Can hypovolemia lead to shock?
14	Q. And it is difficult to monitor?	14	A. Yes.
15	A. Yes.	15	Q. And what is hypovolemic shock?
16	Q. If you're relying on blood pressure monitoring, that's a	16	A. It's felt to be where there's hypoperfusion of critical
17	poor way of checking it?	17	tissues which can lead to detrimental effect to vital organs.
18	A. By itself, yes.	18	It's caused by reduced circulating fluid volume.
19	Q. The better way would be a Swan-Ganz catheter?	19	Q. And is pulse pressure any kind of an indicator of
20	A. That's more invasive, but it probably would provide you with more information than simply doing blood proseque	20	hypovolemic shock?
21	with more information than simply doing blood pressure.	21	A. Not by itself, it's not a specific indicator of
22	Q. It would provide you with a method of titrating the fluid so as to avoid fluid overload?	22 23	hypovolemic shock.
23	A. It's more precise, yes, but not wholly accurate either.	23	Q. Does decreased pulse pressure precede a decrease in diastolic pressure in patients who are developing hypovolemic
124	a os orde precise ves dru dor whom vacabate ender	1 44	urasione pressure in patients who are developing hypovolemic
24		1	shock?
24 25	Q. Can you tell me, in your training in critical care	25	shock?

1	Page 74		Page 76
	A. I don't know the answer to that question.	1	Q. He's the GI doctor. Did he make any notes?
2	Q. Did you ever check this woman's pulse pressures on the	2	A. He has a note from March 15th.
3	14th, 15th?	3	Q. Are you aware of any other OPMG doctors that saw her?
4	A. Not myself, personally, no, others may have, but not me.	4	A. During her stay at CCF?
5	Q. Were you aware that her diastolic pressures were falling	5	Q. I'm particularly interested in the 15th and 16th
6	sharply?	6	14th, 15th, 16th. There's some notes, actually, it's in the
7	A. On which dates?	7	nursing notes, there's some reference to some doctors coming
8	Q. 13th, 14th, 15th.	8	up, in the nursing notes of the 15th.
9	A. I do not recall that specifically.	9	MR. GROEDEL: Is there a particular page, John,
10	Q. Did you ever discuss this case with Dr. Neidermaier	10	you want to show him?
11	yourself?	11	MR. NORTON: I'm trying to find them. The nurses
12	A. I do not recall.	12	files are getting all mixed up here, I'm trying to find
13	Q. How about with Dr. Mostow?	13	the nursing notes.
14	A. I do recall speaking with her once.	14	MR. GROEDEL: Is it after the patient was
15	Q. Do you recall the substance?	15	admitted to the MICU?
16	A. She had told me about the circumstances that she, this	16	MR. NORTON: Right.
17	lady, had fallen, that she was aware of it, and I do not recall	17	A. That's not an OPMG doctor. I'm assuming, but I cannot
18	very much else about the conversation.	18	tell you for sure, that is a CCF resident, although I think
19	Q. At any time during your care and treatment of this	19	it's more likely that it's a
20	patient, did you actually conduct an examination of her body to	20	Q. Dr. Weingten?
21	see the nature and extent of her bruising following the fall,	21	A. I'm not certain, but I'm fairly sure that is a CCF resident.
22	you, yourself?	22	
23	A. I do not recall specifically if I did an examination solely to look at the bruising.	23 24	Q. You're not aware of any other doctors?
24	Q. At any time when you examined this woman, did you ever	24	A. Not according to the record, at least. Dr. Brown, I talked to him earlier.
25	Q. At any time when you examined this woman, did you ever	23	tarked to mini earlier.
	Page 75		Page 77
1	look at her torso?	1	Q. Do you know the cause of death in this case?
2	A. I do not recall.	2	A. Not specifically. I've seen the autopsy report and I've
3	Q. In the routine course of events, would that be something	3	seen the coroner's conclusion.
4	you would do for a hospitalized patient?		seen the coroner's conclusion.
		4	
5	A. To look at their torso? Not necessarily without their	4 5	
5 6	A. To look at their torso? Not necessarily without their clothes on unless there was a specific reason I thought I		Q. Have you ever reached a conclusion of your own as to
	•	5	Q. Have you ever reached a conclusion of your own as to what the cause of death was?
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	Page 78	
1	Q. Well, just tell me, how does coronary vascular disease	
2	produce death?	
3	MR. GROEDEL: Objection. Go ahead.	
4	A. Can cause an acute MI; it can cause intractable ischemia	
5 6	due to unstable angina; it can cause cardiac wall motion damage leading to congestive heart failure; it can cause ischemic	
7	cardiomyopathy with low output state. There are a number of	
8	ways it can kill people.	
9	MR. NORTON: All right, Doctor, I thank you very	
10	much.	
11 12	MR. TABER: No questions. MR. GROEDEL: We're done? Very good.	
12	Can we have 28 days to read it?	
14	MR. NORTON: Sure.	
15		
16	(Deposition concluded at 12:20 p.m.)	
16	(Signature not waived.)	
17		
18		
19		
20	PATRICK N. WHELAN, M.D.	
20 21	1 ATNICK IN. WIDLAIN, WID.	
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23		
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	Page 79	
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1 2		
	CERTIFICATE	
2	CERTIFICATE State of Ohio,)	
2 3	CERTIFICATE	
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