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1       COURT OF COMMON PLEAS         2       LORAIN COUNTY, OHIO         3          4       J. TERRY ROBINSON, :         5       ADMINISTRATOR OF :         6       ESTATE OF ELSIE A. :         7       ROBINSON, :         8       Plaintiff, :         9       vs. :CASE NO. 99 CV 122855         10       DR. LYNN CHRISMER, JR. :         11       et al., :         12       Defendants. :         13          14       Deposition of RONALD SACHER, M.D.,         15       a witness herein, taken by the defendant as         16       upon cross-examination, pursuant to the Ohio         17       Rules of Civil Procedure and pursuant to         18       agreement by counsel as to the time and place         19       and stipulations hereinafter set forth, at the         20       offices of Hoxworth Blood Center, 3130 Highland         21       Avenue, Cincinnati, Ohio, at 12:30 p.m. on         22       Wednesday, the 15th day of August, 2001, before         23       Valerie Jones Conn, Registered Professional         24       Reporter, a Notary Public within and for the         25       State of Ohio.	2 1 APPEARANCES: 2 On behalf of the plaintiff: 3 JOHN BURNETT, ESQ. (Via telephone) 4 of Becker & Mishkind Co., L.P.A. 5 Id Middle Avenue Elyria, Ohio 44035 6 On behalf of the defendant North 7 Ohio Heart: 8 ANNA MOORE CARULAS, ESQ. of 9 Roetzel & Andress 1375 E. 9th Street 10 One Cleveland Center-10th Floor Cleveland, Ohio 44114 11 11 11 11 11 12 Regional Medical Center: 13 COLLEEN PETRELLO, ESQ. (Via telephone) 14 of 100 Franklin's Row 15 34305 Solon Road Cleveland, Ohio 44139 16 10 n behalf of the defendants Lynn 17 Chrismer, Jr., M.D.: 18 MICHAEL HUDAK, ESQ. (Via telephone 19 of Roetzel & Andress 20 222 South Mai Street Akron, Ohio 44305 21
1       STIPULATIONS         2       It is stipulated by counsel for the         3       respective parties that the deposition of         4       RONALD SACHER, M.D., a witness herein, may be         5       taken at this time by the plaintiff as upon         6       cross-examination and pursuant to the Ohio         7       Rules of Civil Procedure, all other legal         8       formalities being waived by agreement; that the         9       deposition may be taken in stenotypy by the         10       Notary Public-Court Reporter and transcribed by         11       her out of the presence of the plaintiff; that         12       submission of the deposition to the witness for         13       examination and signature is expressly waived.         14          15          16          17          18          19          20          21          22          23          24          25	4 1 INDEX 2 3 BYMR.BURNETT PAGE 4 Cross 5 5 6 EXHIBITS 7 8 PAGE 9 NO EXHIBITS MARKED 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

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	5		6
1	(Prior to the deposition beginning	1	that you have understood it and you are giving
2	Ms. Petrello, Esq. requested her objections be	2	me your best answer. Is that fair enough?
3	noted at the same time other counsel entered	3	A. Yes.
4	objections.)	4	Q. So my understanding is you've been
5	ROBERT SACHER, M.D.,	5	designated as an expert in this case on behalf
6	a witness herein, of lawful age, having been	6	of Dr. Hulyakar and his professional group,
7	first duly sworn, as hereinafter certified, was	7	North Ohio Heart Center; is that right?
8	examined and testified as follows:	8	A. Correct.
9	CROSS-EXAMINATION	9	Q. And in looking at your report
10	BY MR. BURNETT:	10	dated May 21, 2001 is that the only report
11	Q. Doctor, I'm John Burnett. I	11	you've authored in this case?
12	represent the Estate of Elsie Robinson in this	12	A. It is, yes.
13	case. Can you hear me, sir?	13	Q. Did you have any drafts of this
14	A. I can, yes.	14	report that were revised over a period of time?
15	Q. Sir, you understand this is a	15	A. No, I don't recall that I had one.
16	question and answer session under oath, right?	16	This is the final and only one.
17	A. Yes.	17	Q. Okay. Doctor, tell me a little
18	Q. Doctor, if I ask you a question	18	bit about I don't have your Curriculum Vitae
19	that you don't understand or is unclear I hope	19	in front of me. Tell me, give me a thumbnail
20	you will tell me and I will do my best to	20	sketch of your career starting with medical
21	rephrase the question or make it clearer. Is	21	school, where you've been and what your areas
22	that fair enough?	22	of practice have been in.
23	A. It is.	23	A. I was educated medical school in
24	Q. Okay. Doctor, if you give me an	24	Johannesburg, South Africa. And following
25	answer to my question I'm going to conclude	25	training there, internship, I did a rotating
	and not to my quotation and going to conclude		a muning more, mornismp, r and a romang
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1		1	
1	internship in internal medicine surgery and	1	assistant professor to full professor in
2	internship in internal medicine surgery and subsequently pediatrics as well as military	2	assistant professor to full professor in internal medicine and pathology and was
2 3	internship in internal medicine surgery and subsequently pediatrics as well as military service, which was compulsory. I went off	2 3	assistant professor to full professor in internal medicine and pathology and was tenured, I believe, in 1984. I stayed at
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	9		10
1	currently, a clinical hematologist?	1	variety of reasons.
2	A. Yes.	2	Q. I keep running into Georgetown
3	Q. What do the clinical hematologists	3	people all over the place. Small world, I
4	do, in general?	4	guess.
5	A. I'm a specialist in the	5	As of '98 I've got an old
6	evaluation, diagnosis and management of	6	deposition transcript of yours and as of '98
7	patients with diseases of the blood and blood	7	it appeared that you were not board certified
8	producing organs including, of course, the	8	in the United States in any specialty; is that
9	coagulation tests and assessment of people who	9	correct and is that still the case?
10	have pre-disposition to clotting and bleeding.	10	A. Yes. I'm board certified in
11	Q. Do you manage patients on	11	hematology, pathology and tropical medicine
12	procedure when they show signs and symptoms of	12	internationally. As a matter of fact, I have
13	an internal bleed?	13	board certifications from Canada but I have not
14	A. Yes.	14	been required to do board certification or
15	Q. Who is the fellow who's the	14	board examinations in the United States,
16	director of the used to be, I think maybe	15	although I guess they have made me eligible to
17	he still is the director of the Lombardi	17	do internal medicine and pathology boards.
17	Cancer Institute? What is his name?	17	Q. Okay. And are you going to take
19	A. He has left Georgetown. His name	18	those?
20	is Mark Lipton.	20	A. No. There's no reason for me to.
20	Q. Right. I deposed Dr. Lipton last	20	Q. Okay. You've been doing
22	year.	21	medical/legal work for how long?
22	A. He's now the chairman of medicine	22	
23		23	A. Well, actually I think the first
24	at the University of Michigan Ann Arbor. I	1	case I ever reviewed was probably in 1979,
23	guess a lot of us have left Georgetown for a	25	1980. And they I also was a hematology
1		1	
1 2	11 consultant to the Federal Aviation Administration and testified before	1 2	A. It's probably closer to 20 percent.
	consultant to the Federal Aviation		A. It's probably closer to 20
2	consultant to the Federal Aviation Administration and testified before	2	A. It's probably closer to 20 percent.
2 3	consultant to the Federal Aviation Administration and testified before Administrative Law Judges in matters relating	2 3	<ul><li>A. It's probably closer to 20</li><li>percent.</li><li>Q. Okay. Have you ever testified in</li></ul>
2 3 4	consultant to the Federal Aviation Administration and testified before Administrative Law Judges in matters relating to pilots. I guess that really is somewhat	2 3 4	<ul><li>A. It's probably closer to 20 percent.</li><li>Q. Okay. Have you ever testified in court for a plaintiff on a case?</li></ul>
2 3 4 5	consultant to the Federal Aviation Administration and testified before Administrative Law Judges in matters relating to pilots. I guess that really is somewhat medical/legal. But I certainly have been doing	2 3 4 5	<ul> <li>A. It's probably closer to 20 percent.</li> <li>Q. Okay. Have you ever testified in court for a plaintiff on a case?</li> <li>A. Yes.</li> </ul>
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1	13		14
1	Q. Okay. Talking in terms of cases	1	versus Ronald Stevens, M.D. and you were
2	you've reviewed0, and we'll get to depositions	2	deposed, I think, in Washington on the 27th of
3	and trial testimony following this have you	3	May in 1998. Does that ring a bell?
4	ever reviewed a case with issues similar to the	4	A. Vaguely. I don't recall the exact
5	one in this case, that is, post-invasive	5	elements of the case but I do remember that.
6	procedure, internal bleeding, monitoring the	6	Q. Okay. Okay. In that deposition
7	bleeding, problems with deciding whether to	7	you reference a New Jersey case that involved
8	keep the patient on anti-coagulants or not,	8	anti-coagulation issues. Do you remember the
9	these types of issues?	9	name of that New Jersey case?
10	A. Well, not exactly. Not exactly	10	A I don't remember the name of that
11	the same as this. Clearly there are many	11	case but I remember the attorney.
12	issues relating to the bleeding and issues	12	Q. You were testifying what was
13	bleed related to bleeding that may or may	13	the attorney's name?
14	not involve invasive procedures or surgery.	14	A. Barnes, if I'm not mistaken.
15	Q. Okay.	15	Q. Bond?
16	A. And I do believe I've reviewed	16	A. Barnes, B-A-R-N-E-S.
17	cases that involve bleeding.	17	Q. B-A-R-N-E-S. Any idea what his
18	Q. Okay. Do you remember I'm	18	first name was or her first name?
19	going to ask you a tough question now. I	19	A. Timothy. Timothy.
20	should probably start do you keep an overall	20	Q. And he practiced in New Jersey.
21	master file of the cases you reviewed?	21	Is that your understanding?
22	A. No.	22	A. Yes.
23	Q. 1998 you testified there was a New	23	Q. And you testified for the
24	Jersey case that involved anti-coagulation.	24	plaintiff in that case?
25	You were deposed in the case of Ida May Evans	25	A. I believe I did, yes.
		ļ	
	15		16
1	Q. Are you aware of any other cases	1	coagulation and bleeding or managing of a
1 2	Q. Are you aware of any other cases that you can name for me either by, you know,	1 2	coagulation and bleeding or managing of a bleed?
1			coagulation and bleeding or managing of a bleed? A. And you're asking me specifically
2	that you can name for me either by, you know, the name of the case, itself, or the attorney who retained you for which you've testified for	2 3 4	coagulation and bleeding or managing of a bleed? A. And you're asking me specifically for a plaintiff? I don't recall.
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	17	18
1	forget a lot about the case once it's over.	1 Q. Did you author a report in that
2	Q. All right.	2 case?
3	A. I'm sure you know about that.	3 A. A report was authored on behalf of
4	Q. That's fair enough. Have you ever	4 me based on previous testimony that I'd given
5	testified in Federal Court?	5 in transfusion transmitted disease litigation.
6	A. Yes.	6 Q. And as far as that report my
7	Q. Tell me when, please.	7 understanding in Federal Court, when a report
8	A. It's possible it was last year or	8 is submitted on behalf of an expert, it has to
9	the year before. I've done some testimony on	9 list all the cases in which the expert has
10	transfusion transmitted disease litigation and	10 testified as such in the past. Do you know if
11	some of those have been in Federal Court in	11 that was done on your behalf or not?
12	Washington, D. C. And if I recall it was	12 A. I believe it was, yes.
13	probably over a year ago. But I might have	13 Q. Do you know who the attorney was
14	been involved in a federal case that never went	14 who did that?
15	to court that was settled about a year ago.	<ul><li>15 A. Thomas Cullen, C-U-L-L-E-N.</li><li>16 Q. Defense lawyer or plaintiff</li></ul>
16	Q. You remember the name of that case? And was it in Washington, first of all?	17 lawyer?
18	A. There have been a number of cases.	18 A. Defense.
19	Actually that case, if I recall, was a	19 Q. I'm sorry?
20	Baltimore case; it was a Maryland case.	20 A. Defense.
21	Q. Was it in Federal Court in	21 Q. Defense. Sorry. Do you remember
22	Maryland?	22 the name of the case?
23	A. I think that's where it was	23 A. Most of those were John or Jane
24	that jurisdiction, at least. However, that	24 Does.
25	case didn't go to trial.	25 Q. Who were you defending?
	· · · · · · · · · · · · · · · · · · ·	
	19	20
1	A. I was defending the plasma	1 chronology. I don't keep those notes and
1 2	A. I was defending the plasma practitioners and in this particular case it	<ol> <li>chronology. I don't keep those notes and</li> <li>generally I throw them away.</li> </ol>
2 3	A. I was defending the plasma practitioners and in this particular case it was Bayer Pharmaceuticals. It was hemophilia	<ol> <li>chronology. I don't keep those notes and</li> <li>generally I throw them away.</li> <li>Q. Did you do that in this case?</li> </ol>
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	21		22
1	that type of thing?	1	Q. Have you worked with the firm
2	A. Yes, I have.	2	she's with, Roetzel & Andress, before?
3	Q. Okay. I take it you probably	3	A. Yes.
4	looked at the deposition of Dr. Loch and Dr.	4	Q. Okay. How many times?
5	Ballard; is that right?	5	A. Twice before.
6	A. That is correct.	6	Q. In those cases did you actually
7	Q. I don't even know if it's been	7	end up testifying at trial?
8	transcribed. Have you seen Dr. Solomon's	8	A. I did, yes.
9	deposition yet?	9	Q. Okay. You remember the names of
10	A. I have not.	10	those cases?
11	Q. Do you know Dr. Solomon?	11	A. I do. Yes. One was Hannahs,
12	A. I do, yes.	12	H-A-N-N-A-H-S v Jain, J-A-I-N.
13	Q. How do you know him?	13	Q. Was that here in Ohio?
14	A. We were colleagues at Georgetown	14	A. It was, yes.
15	University Hospital.	15	Q. Okay. That Cuyahoga County, the
16	Q. Okay. To your knowledge how did	16	Cleveland area?
17	Ms. Carulas get your name?	17	A. Well, it was my first visit to
18	A. I believe from one of her	18	Cleveland so I wouldn't say I was an expert but
19	partners. I was asked to review a case by her	19	that's exactly where it was.
20	firm. In fact, it was actually referred to my	20	Q. What was the next one, please,
21	predecessor here at Hoxworth and was	21	Doctor?
22	subsequently given to me.	22	A. I'm blocking on the plaintiff's
23	Q. Have you worked with Ms. Carulas	23	name but it was versus the Cleveland Clinic.
24	before?	24	Camamassie. C-A-M-A-M-A-S-S-I-E, I think. He
25	A. No.	25	was a Brazilian national that sued the
	23		24
1	Cleveland Clinic and a urologist.	1	the authoring or, excuse me, in preparation for
2	Q. Okay. Do you remember the names	2	forming your opinions in this case?
3	of the plaintiff's counsel in either of those	3	A. No.
4	cases?	4	Q. I don't have your CV in front of
5	A. No, I don't.	5	me right now; it hasn't arrived yet for
6	Q. All right. Now had you ever done	6	whatever reason. Regarding the issues in this
7	any work for the law firm known as Jacobson,	7	case can you identify for me, whether it be a
8	Maynard, Tuschman & Kalur?	8	book, a book chapter or an article, anything in
9	A. No. That's unfamiliar to me. I	9	the past you've authored or co-authored which
10	think I might have seen the name in, perhaps,	10	has that was discussed with issues that are
11	material that I've reviewed.	11	pertinent to this case?
12	Q. Okay. Do you know Stanley	12	A. Again, that's a very broad
13	Ballard, M.D.?	13	question. I've certainly written on issues
14	A. No.	14	relating to bleeding, its management and also
15	Q. Do you know of him by reputation?	15	clotting problems and anti-coagulants.
16	A. No.	16	Q. Okay. Are there any that are
17	Q. Do you know Ralph Loch, M.D.?	17	any publications that are very close to the
18	A. No.	18	issues involved in this case, Doctor?
19	Q. How about by reputation?	19	A. Well, I would say that there
20	A. No, not at all.	20	probably are some in a very generic way.
21	Q. All right. Did you do any	21	Again, the issues are bleeding and
22	research, Doctor, in preparation for the	22	anti-coagulation and the justification for
23	authoring of your report?	23	ant-coagulation as well as the management of
24	A. No.	24	bleeding. So those are fairly general. And
1			
25	Q. Any research in preparation for	25	there are articles that I've written that are

		E	
	25		26
1	generally related to that sort of scenario.	1	problem, inability to respond to the bleeding.
2	Q. Are they readily apparent from a	2	Q. And on what do you base that?
3	review of your Curriculum Vitae or do you think	3	A. I base that on my review of the
4	you should identify them for me as we sit here	4	records and, of course, my background,
5	right now?	5	education and experience.
6	A. No. I think, in the interest of	6	Q. What, specifically, in the records
7	time, they would be readily apparent because	7	leads you to conclude that she had a cardiac
8	there would be key words in the titles of what	8	arrest?
9	I've written.	9	A. Well, she coded and clearly she
10	Q. That's fine. Have you talked to	10	had a cardiac code. I believe that on the
11	Dr. Solomon at all about this case?	11	review of her history it is quite apparent that
12	A. No.	12	she had a very formidable and substantial
13	Q. You've seen his report?	13	serious medical history with many organ systems
14	A. I have, yes.	14	diseased and her ability to respond to a
15	Q. Anything in his report that you	15	bleeding event was clearly very compromised.
16	disagree with?	16	Q. Is that ability to respond to a
17	A. No.	17	bleeding event being significantly compromised,
18	Q. Doctor, in this case the likely	18	is that something you would have expected Dr.
19	cause of death was hypovolemic shock, right?	19	Hulyakar to be aware of?
20	She died from exsanguination?	20	A. Yes. I'm sure he was aware of it.
21	A. Well, certainly that contributed.	21	Q. So, in essence, her compensatory
22	I think the cause of death was cardiac arrest.	22	mechanisms, the way the body deals with blood
23	Q. Okay. And what caused the cardiac	23	loss, essentially failed her and her heart
23	arrest?	24	stopped. Is that a good, simple way to put it?
25	A. It was her primary cardiac	25	A. Yes, I believe so.
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	27		28
1	Q. Okay. Have you seen the	*****	that right?
2	Q. Okay. Have you seen the photographs in this case which identify the	2	that right? A. That is correct.
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1			,
	29		30
1	French sheath. Do you have any reason to	1	testified that this huge hemorrhage identified
2	disagree with that?	2	by the autopsy report likely had, as its
3	A. No.	3	source, the same site as that causing the bleed
4	Q. Okay. And, by the way, that's not	4	seen on the CT scan on 3-3-97. And I'm asking
5	the normal standard of care for there to be a	5	you do you have any reason to disagree with
6	puncture like that, that just happens under the	6	that?
7	best of care, correct?	7	A. Now specifically you're referring
8	A. Absolutely.	8	to, of course, the retroperitoneal hemorrhage
9	Q. The autopsy report identifies a	9	swell now because that was found at autopsy?
10	huge hemorrhage, retroperitoneal space, the	10	Q. Yes, I am.
11	anterior abdominal wall on the right and down	11	<ol> <li>A. I really cannot agree or disagree.</li> </ol>
12	on the pubis into the anterior chest wall; is	12	I think that is a fact. On the other hand,
13	that correct?	13	retroperitoneal bleeds are side effects of
14	A. Yes.	14	anti-coagulation therapy under even under
15	Q. Again, Dr. Solomon testified that	15	the best of circumstances and even without a
16	this huge hemorrhage identified by the autopsy	16	punctured site. So while it is possible and
17	report likely had, as its source, the same site	17	may even be probable, I don't know.
18	as that causing the bleed seen on CT scan on	18	Q. Tell me, so I understand the
19	3-3 of '97. Do you have any reason to disagree	19	mechanism of this, why is the retroperitoneal
20	with that? That's not below the standard of	20 21	bleed a risk of anti-coagulation? How does it happen? Explain that to me.
21	care?	21	A. I don't think we know other than
22 23	A. I'm sorry. Would you rephrase that again? I didn't get all of it.	22	the fact that perhaps some mechanical event
23	Q. Sure. Dr. Solomon and I'll	23	occurs or there may be some pre-existing
24	paraphrase his testimony Dr. Solomon	24	anatomic reason. But spontaneous bleeding into
4.5	parapinase instructiony - Di, Solomon		
I		.l	
	31		32
	31 the retroperitoneal area is a concern in		A. Not really. I don't think we use
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	33		34
1	by anything in the records or in the	1	taken on 2-26-97 was not accurate?
2	depositions, that she was not well hydrated as	2	A. I wouldn't say it wasn't accurate.
3	of 2-26-97 when her hemoglobin and hematocrit	3	It is the value that is determined. It's a
4	was taken?	4	calculated value based on her blood analysis.
5		5	
1	A. No. I think she was overhydrated,		But you are asking me specifically did she lose
6	so that's my point. That, in fact, value just	6	half of her blood volume and I can't give you
7	taken in isolation of 19.4 could reflect many	7	an accurate answer that this represents half of
8	fluid shifts in the vascular system.	8	the blood volume because there may well be many
9	So I don't believe that you can	9	fluid changes that reflect the concentration of
10	say that this happens to be in the absolute	10	red cells.
11	half of what the red cell mass was when she	11	Q. In terms of probability, though,
12	first came in.	12	more likely than not, is this about a loss of
13	Q. You're telling me she was	13	about half of her blood volume as indicated on
14	overhydrated on February 26th?	14	the hemoglobin and hematocrit tests taken on
15	A. No. I'm just saying that	15	the date of 3-6-97, more likely than not?
16	certainly in response to hemorrhage a lot of	16	<ol> <li>More likely than not it is not a</li> </ol>
17	fluid shifts occur and also in clinical	17	loss of half of her blood volume but it's a
18	management of perceived hemorrhage there are a	18	loss of a substantial amount of her blood
19	lot of crystallized solutions that are given	19	volume, probably more than 30 percent.
20	which dilute the red cells.	20	Q. Okay. Certainly something that
21	Q. Okay. I guess what I'm asking you	21	would cause any physician to be concerned,
22	is are you aware of anything, from the record	22	correct?
23	or the deposition testimony or anywhere else,	23	A. Yes.
24	that would lead you to conclude in terms of	24	Q. Okay. By the way, if she was
25	probability that the hemoglobin and hematocrit	25	experiencing continued active bleeding as of
			•••••••••••••••••••••••••••••••••••••••
	35		36
	the time the hemoglobin and hematocrit test was		through some facts here and then ask you a
2	the time the hemoglobin and hematocrit test was taken that evening on 3-5-97, the 6.2 and 19.4	2	through some facts here and then ask you a question so I know on the record we make sure
2 3	the time the hemoglobin and hematocrit test was taken that evening on 3-5-97, the 6.2 and 19.4 numbers for the hemoglobin and hematocrit test	2 3	through some facts here and then ask you a question so I know on the record we make sure we're on the same sheet of music here.
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	37		38
1	A. I would think that this is	1	have been some contribution of that. I might
2	probably related to fluid replacement and also	2	also point out that very likely when she came
3	blood tests that are drawn from people.	3	in symptomatic on the 26th she was probably a
4	Commonest cause of anemia in the hospital	4	little hemo concentrated or a little dry and
5	population is the blood that health care	5	the value of 39.0 was probably a higher value
6	providers draw to do testing.	6	than she really had.
7	Q. And how much blood was drawn from	7	Q. Why do you say you think she was
8	her during that period of time, do you know?	8	probably a little dry?
9	A. Well, she had some blood drawn	9	A. That's not unusual for people
10	from her but, as I said, I also believe that it	10	coming in who have cardiac symptoms and she may
11	was probably fluid replacement. She had a fair	11	have been breathing hard, she was short of
12	amount of fluid return.	12	breath.
13	Q. Would you have expected a	13	Q. Is there anything in the record
14	reasonable physician to draw that conclusion	14	that leads you to that conclusion? Is there
15	relative to the drop from 2-26 to 3-4-97?	15	anything you can point to to tell me that she
16	A. Yes. I think that I would not be	16	was a little dry or are you just making an
17	concerned about this. This is very expected,	17	assumption?
18	in fact, in any hospitalized patient.	18	A. I'm just referring to her lab
19	Q. So as of 0415 in the morning the	19	studies. Yes, as a matter of fact, her blood
20	change in her hemoglobin and hematocrit since	20	urinemia protein on the 25th was 38 with a
21	the 26th of February was not likely a result of	21	creatinine of 1.9. That may be a contribution
22	the large hematoma over the anterior abdominal	22	in part of her renal problems. But also she
23	wall later seen on the day on that day by CT	23 24	might have been a little dry.
24	scan, right?	24	Q. Okay. I know you're telling me she might have been a little dry. That would
25	A. Well, I think that it may well	23	she mght have been a mile dry. That would
			,
	39		40
1	have impacted the hematocrit. I guess what I'm	1	at 1,000 units an hour on 2-27-97, right?
2	have impacted the hematocrit. I guess what I'm asking you, on what do you base the conclusion	2	at 1,000 units an hour on 2-27-97, right? A. Yes.
2 3	have impacted the hematocrit. I guess what I'm asking you, on what do you base the conclusion that she might have been a little dry? Is	2 3	<ul><li>at 1,000 units an hour on 2-27-97, right?</li><li>A. Yes.</li><li>Q. And my understanding is see if</li></ul>
2 3 4	have impacted the hematocrit. I guess what I'm asking you, on what do you base the conclusion that she might have been a little dry? Is there anything that you can point to in the	2 3 4	at 1,000 units an hour on 2-27-97, right? A. Yes. Q. And my understanding is see if you agree with me that this was continued
2 3 4 5	have impacted the hematocrit. I guess what I'm asking you, on what do you base the conclusion that she might have been a little dry? Is there anything that you can point to in the records?	2 3 4 5	at 1,000 units an hour on 2-27-97, right? A. Yes. Q. And my understanding is see if you agree with me that this was continued until about 10:30 p.m. on March 5th, '97,
2 3 4 5 6	have impacted the hematocrit. I guess what I'm asking you, on what do you base the conclusion that she might have been a little dry? Is there anything that you can point to in the records? A. Well, as I pointed out, certainly	2 3 4 5 6	at 1,000 units an hour on 2-27-97, right? A. Yes. Q. And my understanding is see if you agree with me that this was continued until about 10:30 p.m. on March 5th, '97, right?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	have impacted the hematocrit. I guess what I'm asking you, on what do you base the conclusion that she might have been a little dry? Is there anything that you can point to in the records? A. Well, as I pointed out, certainly her history and the base of symptoms. And the chemical analysis of BUN and creatinine may have also given information about the status of her fluids. Q. Is it likely that these things you just discussed made her be, as you put it, a little dry, or are these just possibilities? A. No. I think it is likely. In fact, as I've pointed out, I mean, this is certainly a normal hematocrit but not uncommonly patients presenting with an acute medical problem may have a slightly higher hematocrit than is really what the true value is. And then subsequently she was given fluids and her hematocrit was a little lower. But either way I don't think the 39.5 on the 26th to the 34.6 on the 4th reflect a significant change.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	at 1,000 units an hour on 2-27-97, right? A. Yes. Q. And my understanding is see if you agree with me that this was continued until about 10:30 p.m. on March 5th, '97, right? A. Correct. Q. She started receiving Coumadin at five milligrams on 3-3-97, correct? A. Correct. Q. Now when that says five milligrams how was that administered to her? A. Orally. Q. Okay. Per day? A. Yes. Q. Okay. By the way, this was continued until her death, correct? A. Correct. Q. Okay. This wasn't stopped at, you know, 10:30 or so like the Heparin was on the 5th, was it? A. Well, as a matter of fact, the Coumadin's effect Coumadin is given as a once daily dose. I think once they appreciated
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	have impacted the hematocrit. I guess what I'm asking you, on what do you base the conclusion that she might have been a little dry? Is there anything that you can point to in the records? A. Well, as I pointed out, certainly her history and the base of symptoms. And the chemical analysis of BUN and creatinine may have also given information about the status of her fluids. Q. Is it likely that these things you just discussed made her be, as you put it, a little dry, or are these just possibilities? A. No. I think it is likely. In fact, as I've pointed out, I mean, this is certainly a normal hematocrit but not uncommonly patients presenting with an acute medical problem may have a slightly higher hematocrit than is really what the true value is. And then subsequently she was given fluids and her hematocrit was a little lower. But either way I don't think the 39.5 on the 26th to the 34.6 on the 4th reflect a significant	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	at 1,000 units an hour on 2-27-97, right? A. Yes. Q. And my understanding is see if you agree with me that this was continued until about 10:30 p.m. on March 5th, '97, right? A. Correct. Q. She started receiving Coumadin at five milligrams on 3-3-97, correct? A. Correct. Q. Now when that says five milligrams how was that administered to her? A. Orally. Q. Okay. Per day? A. Yes. Q. Okay. By the way, this was continued until her death, correct? A. Correct. Q. Okay. This wasn't stopped at, you know, 10:30 or so like the Heparin was on the 5th, was it? A. Well, as a matter of fact, the Coumadin's effect Coumadin is given as a

	41		42
1	have given Coumadin that next day. But you're	1	ordered it every four to six hours.
2	absolutely right, on the 5th it was given.	2	Q. I'm sorry. I said six to eight
3	Q. Okay. Do you have any idea what	3	hours?
4	time of day it was given?	4	A. I'm sorry, six to eight hours. I
5	A. I don't recall the time of day. I	5	would probably have repeated the hematocrit but
6	don't think that's very important.	6	I'd be certainly observing the patient.
7	Q. Okay. She started receiving	7	Q. When would you have repeated it?
8	aspirin, one tablet per day, on the 5th, as	8	MS. CARULAS: Just note a
9	well; is that correct?	9	continuing line of objection as to what one
10	A. Yes.	10	particular doctor did. Go ahead. Did you hear
11	Q. Okay. Now the CT scan revealed	11	that?
12	the large hematoma over the anterior abdominal	12	Q. I'm sorry. I didn't hear it.
13	wall on 3-4-97, correct?	13	MS. CARULAS: Just put in my
14	A. Correct.	14	standard objection, as I did with Dr. Solomon,
15	Q. Okay. If this had been your	15	as to what this one particular doctor would
16	patient after you discovered the large hematoma	16	have done.
17	over the anterior abdominal wall and having	17	Q. I understand. I'm sorry, Doctor.
18	learned of the hemoglobin and hematocrit test	18	Would you
19	that morning, 0415, and recognizing she was on	19	MS. CARULAS: I'll just have a
20	the anti-coagulants we just discussed can we	20	continuing line so I don't have to interrupt.
21	agree you would have ordered hemoglobin and	21	A. Again, it would be my standard, as
22	hematocrit tests to be done every six to eight	22	a hematologist called in a situation like this,
23	hours throughout the rest of the day on March	23	to monitor hemoglobins and hematocrits. So I
24	4th?	24	would certainly monitor that.
25	A. I don't know that I would have	25	Q. And how often would you monitor
	43		44
1	it? I mean, assuming one was done at 4:15 in	1	when I'd do it, repeat the test.
2	it? I mean, assuming one was done at 4:15 in the morning on the 4th when would you have next	2	when I'd do it, repeat the test. Q. Okay. Given the clinical
2 3	it? I mean, assuming one was done at 4:15 in the morning on the 4th when would you have next run a hemoglobin and hematocrit test?	2 3	when I'd do it, repeat the test. Q. Okay. Given the clinical circumstances of this patient on the 4th my
2 3 4	<ul><li>it? I mean, assuming one was done at 4:15 in</li><li>the morning on the 4th when would you have next</li><li>run a hemoglobin and hematocrit test?</li><li>A. Probably sometime in the middle</li></ul>	2 3 4	when I'd do it, repeat the test. Q. Okay. Given the clinical circumstances of this patient on the 4th my understanding is she continued to complain of
2 3 4 5	<ul><li>it? I mean, assuming one was done at 4:15 in</li><li>the morning on the 4th when would you have next</li><li>run a hemoglobin and hematocrit test?</li><li>A. Probably sometime in the middle</li><li>part of the day.</li></ul>	2 3 4 5	when I'd do it, repeat the test. Q. Okay. Given the clinical circumstances of this patient on the 4th my understanding is she continued to complain of pain in the area of the ecchymosis. And
2 3 4 5 6	<ul><li>it? I mean, assuming one was done at 4:15 in</li><li>the morning on the 4th when would you have next</li><li>run a hemoglobin and hematocrit test?</li><li>A. Probably sometime in the middle</li><li>part of the day.</li><li>Q. And after that had been done in</li></ul>	2 3 4 5 6	when I'd do it, repeat the test. Q. Okay. Given the clinical circumstances of this patient on the 4th my understanding is she continued to complain of pain in the area of the ecchymosis. And assuming you would have, around the middle of
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1	45		46
1	hematoma over the anterior abdominal wall and	1	patient and you learned that a CT scan showed
2	the hemoglobin and hematocrit values taken at	2	this hematoma on the 4th would you have ordered
3	0415, can we agree that the standard of care	3	another CT scan on the 5th?
4	required a reasonably prudent physician to	4	MS. CARULAS: Objection.
5	repeat the hemoglobin and hematocrit tests	5	A. I don't know that I would have
6	sometime toward the middle of that day?	6	ordered a CT scan on the 5th.
7	MS. CARULAS: Note my objection.	7	Q. Was there another way for you to
8	Go ahead.	8	monitor this anterior abdominal wall hematoma
9	A. I don't know that the standard of	9	than by CT scan?
10	care would have required it. I think that the	10	A. Yes. I think the benefit, of
11	physicians were certainly attentive and were in	11	course, of an external hematoma is that you
12	attendance and were guided by the clinical	12	have physical signs that are available to you.
13	circumstances in their judgment at the time.	13	So I would be guided by the physical signs of
14	Q. In that capacity is Dr. Hulyakar	14	the patient, the nurses' monitoring of the
15	acting, when he's monitoring this area of	15	patient and the patient's vital signs.
16	ecchymosis, is he acting as a cardiologist? Is	16	Q. What physical signs would you look
17	he acting as an internist? What hat is he	17	for?
18	wearing?	18	A. I'd look for more significant
19	A. I would think that he is acting as	19	anatomical change in the actual hematoma
20	a physician who has experience in internal	20	externally.
21	medicine with an expertise in cardiology.	21	Q. What do you mean by that? You
22	Q. And you have experience in	22	mean you would be looking to see if it expanded
23	internal medicine, as well; is that correct?	23	beyond the markings they draw around the
24	A. Yes.	24	monitor?
25	Q. Now, again, if this had been your	25	A. That would be one indication or,
	47		48
1	in fact, if it became more protuberant because,	1	tissue planes. But, again, that would, in all
2	of course, the line of least resistance is external rather than internal since one has	2	probability, have presented a change in
3			
		3	physical signs.
4	muscles and other tissue that would prevent the	4	physical signs. Q. Would it have entered a change in
4 5	muscles and other tissue that would prevent the hematoma from extending internally.	4	physical signs. Q. Would it have entered a change in physical signs in the sense of complaint of
4 5 6	muscles and other tissue that would prevent the hematoma from extending internally. Q. Is there any indication well,	4 5 6	physical signs. Q. Would it have entered a change in physical signs in the sense of complaint of pain?
4 5 6 7	<ul><li>muscles and other tissue that would prevent the hematoma from extending internally.</li><li>Q. Is there any indication well, how would you do that? Would you palpate it?</li></ul>	4 5 6 7	<ul><li>physical signs.</li><li>Q. Would it have entered a change in physical signs in the sense of complaint of pain?</li><li>A. Well, certainly symptoms were</li></ul>
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4 5 7 8 9	<ul> <li>muscles and other tissue that would prevent the hematoma from extending internally.</li> <li>Q. Is there any indication well,</li> <li>how would you do that? Would you palpate it?</li> <li>A. Yes.</li> <li>Q. Okay. Is there any indication,</li> </ul>	4 5 6 7 8 9	<ul> <li>physical signs.</li> <li>Q. Would it have entered a change in physical signs in the sense of complaint of pain?</li> <li>A. Well, certainly symptoms were there and she had a complaint of pain and they were monitoring it. But I was referring to the</li> </ul>
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4 5 7 8 9 10 11 12	<ul> <li>muscles and other tissue that would prevent the hematoma from extending internally.</li> <li>Q. Is there any indication well,</li> <li>how would you do that? Would you palpate it?</li> <li>A. Yes.</li> <li>Q. Okay. Is there any indication,</li> <li>from the record and the depositions, that Dr.</li> <li>Hulyakar or anybody else palpated this</li> <li>ecchymotic area on the 4th or the 5th?</li> </ul>	4 5 6 7 8 9 10 11 12	<ul> <li>physical signs.</li> <li>Q. Would it have entered a change in physical signs in the sense of complaint of pain?</li> <li>A. Well, certainly symptoms were there and she had a complaint of pain and they were monitoring it. But I was referring to the physical signs of either extension of the hematoma externally, in other words, becoming more protuberant or perhaps extension of the</li> </ul>
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	49		50
1	was her blood pressure had dropped	1 physic	ians and/or nurses of this anatomic site.
2	precipitously at six or seven in the morning,		t information would be available to them.
3	right?		ns of whether they did it or not I don't
4	A. Correct.	4 know.	ý
5	Q. I'm going to take you back to the	5 Q	. Okay. If they didn't do it, if
6	4th, comments on the rigidity of the muscles in	6 they di	dn't evaluate this ecchymotic area in
7	the records or depositions?		of protuberance and muscle rigidity on
8	A. I certainly remember comments	8 the 4th	and the 5th, can we agree that they
9	about the nature and description of the	9 both fe	ell below the standard of care?
10	hematoma but I will have to refer to the	10 A	. Well, I would say that if, in
11	progress notes. On the 4th there is a comment	11 fact, th	ey didn't follow up on this issue then
12	by the house officer, when she was complaining	12 they w	ould have deviated from the standard of
13	of right lower quadrant discomfort, that there		But I think that's not facts in
14	was no apparent change in the size of her	14 eviden	
15	ecchymosis. And there is a statement about his		. And, again, I'm not clear, in your
16	examination, mild right lower quadrant		ony with regard to this bleed which
17	tenderness without guarding. So with regard to		sted itself at the area of ecchymosis in
18	rigidity I was referring to guarding and/or	-	ht flank and seen as an abdominal wall
19	rigidity. So there is a comment.		oma by CT scan, had it continued to bleed
20	Q. Okay. Any indication that Dr.		ally and not spread beyond the line, the
21	Hulyakar or Dr. Chrismer, on the 4th or the		igs on the skin, is that possible for it
22	5th, ever evaluated the ecchymotic area in	$\frac{22}{22}$ to do t	
23	terms of protuberance or muscle rigidity?		. It is possible. It could erode
24	A. Well, again, I think the record is		h some tissue if it was extensive enough. Okay. But you're saying that if
25	self-evident in terms of evaluations by	25 Q	. Okay. But you'le saying that it
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>it does that it may further reveal itself in terms of muscle rigidity or protuberance, correct?</li> <li>A. Right. And other clinical signs, for example, signs of peritonism if it actually erodes through the muscle planes into the abdominal cavity.</li> <li>Q. Signs of infection?</li> <li>A. Peritonism. Inflammation of the peritoneal cavity.</li> <li>Q. And how does that manifest itself clinically? How do you determine if that's there?</li> <li>A. Well, the patient's symptoms would change. They would very likely be nausea and vomiting. There would be clinical signs of guarding and certainly rigidity and there may well be absence of bowel sounds or what's termed an ileus, I-L-E-U-S.</li> </ul>	<ul> <li>2 have 1</li> <li>3 A</li> <li>4 C</li> <li>5 A</li> <li>6 same a</li> <li>7 C</li> <li>8 A</li> <li>9 some a</li> <li>10 discritination of the second sec</li></ul>	<ul> <li>lone on the 5th, that day, what would it ikely revealed?</li> <li>You asking me midday on the 5th?</li> <li>Yes.</li> <li>I think it would have revealed the as it revealed the day before. Perhaps.</li> <li>Why do you say that?</li> <li>Well, perhaps there may have been marginal change. CTs are not that minating in terms of absolute volumes. I that her hematoma would have been usly apparent. But I don't believe that roperitoneal bleed would have been I think this was an acute event.</li> <li>Okay. And we've got to talk about a minute. All right. So I understand you're saying. By the way, relative to complaints in the area of the ecchymosis with this</li> </ul>
20 21 22 23	<ul><li>Q. Did that happen in this case?</li><li>A. No.</li><li>Q. I'm sorry. Did you say something?</li></ul>	20 patien 21 course	t her complaints of pain, those, of , were likely a result of the hematoma on terior abdominal wall, right?

	53	5-	4
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\end{array} $	<ul> <li>Q. Yeah. Is it likely that that puncture continued to bleed throughout the day on the 4th and the 5th?</li> <li>A. Well, I believe it was the origin of the abdominal wall hematoma. So it could conceivably have continued to bleed or it may have sealed off and then subsequently opened up again.</li> <li>Q. Tell me why you believe this was, so I understand your testimony, I think you believe this is an acute bleed. Right?</li> <li>A. Correct.</li> <li>Q. And, again, the bleed I'm talking about was the bleed that ultimately killed her and that was described in the autopsy report, correct?</li> <li>A. Well, it was the contributing factor to her death, yes.</li> <li>Q. Yes. I understand. Tell me why, each and every reason why, you believe it was an acute bleed?</li> <li>A. Well, based on my review of the record and the chronology of events and the vital signs something acutely happened. And this something that acutely happened was, at</li> </ul>	<ul> <li>least by virtue of the clinical signs, not</li> <li>apparent for most of the day on the 5th. So</li> <li>subsequently towards the latter part of the 5th</li> <li>when she went into the when she dropped her</li> <li>blood pressure and went into the intensive care</li> <li>an event happened. And I believe that this was</li> <li>the contributing event that a hemorrhage</li> <li>occurred and this hemorrhage continued well</li> <li>into the 6th, obviously until when she coded.</li> <li>And by that stage, of course, she had no</li> <li>cardiac reserve that was able to adapt to this,</li> <li>or very limited cardiac reserve or very limited</li> <li>body reserve. And that caused her death.</li> <li>Q. You say that something acutely</li> <li>happened that was not apparent for most of the</li> <li>day on the 5th. And my question to you is what</li> <li>acutely happened? Did the bleed happen that</li> <li>was not apparent for most of the day on the</li> <li>5th?</li> <li>A. Well, I think the bleed started</li> <li>when she dropped her blood pressure.</li> <li>Q. And when was that?</li> <li>A. Certainly she had evidence of an</li> <li>abdominal wall hematoma. I believe that the</li> </ul>	
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\end{array} $	<ul> <li>55</li> <li>hematoma because there was a massive bleed into her retroperitoneum which certainly wasn't evident on the CT scan. So it must have happened after the CT scan.</li> <li>Q. In terms of probability when did it start?</li> <li>A. I think it started at the time when she dropped her blood pressure.</li> <li>Q. And, I'm sorry, Doctor, when was that?</li> <li>A. That was on the 5th, probably around started around 1600 hours, I would say, as to 1800 hours, to 8:00 in the evening.</li> <li>Q. Until 8:00 in the evening. So 2000 hours is when her blood pressure dropped?</li> <li>A. Well, I think there's evidence that her blood pressure did drop at 1600 hours, that's 4:00. But then 8:00 it was 79 over 48.</li> <li>Q. Okay. So more likely than not, in your opinion, this bleed started at about 4:00 in the afternoon, right?</li> <li>A. Very likely; that would be the earliest time I would think that it would have started. Shortly before that.</li> <li>Q. And, Doctor, what, in terms of</li> </ul>	<ul> <li>probability, was the cause of this bleed?</li> <li>A. Well, again, we're not totally</li> <li>sure. I mean, it's very easy to say that it</li> <li>was related to the femoral catheter and the</li> <li>needle stick that reopened. But I think that</li> <li>it's also well known that spontaneous bleeding</li> <li>can occur.</li> <li>Q. Now I want you to understand</li> <li>something. In Ohio here we talk in terms of</li> <li>probability, that is, 51 percent or greater</li> <li>certainty of a fact. Allows you to state</li> <li>things to a reasonable degree of medical</li> <li>probability. And that's probably how Ms.</li> <li>Carulas will ask you questions at trial, but</li> <li>I'll leave that up to her.</li> <li>My question to you, though, in</li> <li>terms of probability, is it more likely than</li> <li>not or to a reasonable degree of medical</li> <li>probability that the bleed that began at 1600</li> <li>on the 5th was from the puncture wound in the</li> <li>area of the femoral vein in the groin?</li> <li>A. I really can't say.</li> <li>Q. Okay. Can you, again, to a</li> <li>reasonable degree of medical probability, can</li> <li>you say what was the cause or strike that.</li> </ul>	

	57		58
1	What was the etiology of that	1	from a blood vessel to bleed into the
2	bleed?	2	retroperitoneum, which is an open space, either
3	A. I can't say. All I can say is one	3	it's sealed off for some reason and then didn't
4	of those two possibilities. That's the	4	then reopened, which I suppose it's
5	differential diagnosis of that retroperitoneal	5	possible, again, it's possible, or if it
6	bleed. But I don't know what the cause was.	6	continued I would have expected to see blood in
7	Q. Okay.	7	that space done when the CT scan was performed
8	A. I would have expected that if it	8	on the 4th.
9	was from the femoral puncture site you would	9	Q. Why?
10	have seen it on the CT scan before that because	10	A. Because it is a space without
11	the femoral puncture was done, of course, days	11	resistance. It really is an open space. It's
12	before that, too. And she was on	12	beneath the peritoneum.
13	anti-coagulants so I really don't know.	13	Q. What if the blood just hadn't made
14	Neither do, I think, anybody does.	14	its way there yet through the tissue planes?
15	Q. You said something that confuses	15	A. Well, she was on anti-coagulants.
16	me. You would have seen what on the CT scan?	16	There would be expectation that, in fact, if
17	A. Retroperitoneal bleed.	17	there was a puncture in the vessel causing a
18	Q. Why would you have seen it on the	18	leak into that space that there would have been
19	CT scan?	19	a substantial amount of blood there.
20	A. Well, I think, obviously, there	20	And, again, I should point out
21	was an invasion of a blood vessel and that was	21	that it is well known to hematologists that
22	done at the time of the initial puncture on the	22	spontaneous bleeding can occur for some reason
23	27th, I believe it was.	23	in the retroperitoneum. And I have personally
24	Q. Okay.	24	seen a patient who was not punctured who has
25	A. So if there was continued bleeding	25	had a life threatening bleeding into the
[			
5			
	59		60
1	59 retroperitoneum.	in the second seco	60 guess, you know, I'm thinking internally. Is
2	retroperitoneum. Q. Did you salvage that patient?	2	guess, you know, I'm thinking internally. Is there something about a that the route the
2 3	retroperitoneum. Q. Did you salvage that patient? A. Actually I've seen it several	2 3	guess, you know, I'm thinking internally. Is there something about a that the route the blood would flow, that we see the collection of
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	1	A. Oh, yes.	1	bleed began?
	2	Q. Okay.	2	A. I think it would have been lower.
	3	A. Again, I think I've explained to	3	Q. Okay. At that point in time
	4	you that there are a number of possibilities.	4	well, let me ask it to you this way. Is there
	5	But I cannot tell you which, exactly, was the	5	a point in time between when the bleed began at
	6	one that caused it.	16	1600 and when the patient expired the next
	7	Q. And the other possibility is the	7	morning when this patient was salvageable, that
	8	spontaneous retroperitoneal bleed that people	8	is, when her life could have been saved by
	9	who are an anti-coagulants sometimes have,	9	proper medical intervention?
	10	correct?	10	A. I don't think this patient was
,	11	A. Correct.	11	salvageable.
	12	Q. By the way, given her cardiac	12	Q. Tell me why.
	13	problems and the expectations with her limited	13	A. Because of all the medical
	14	reserve to deal with a blood loss the standard	14	problems that existed in her, and I'd be happy
	15	of care requires a physician to monitor very	15	to enumerate them.
	16	closely a patient for bleeding under these	16	Q. Well, yes. Enumerate them for me
	17	circumstances, correct?	17	and explain how they relate to her not being
	18	A. Yes.	18	salvageable in your mind. Please tell me.
	19	Q. Now had a hemoglobin and	19	A. Well, first of all, and I think
	20	hematocrit test been run at 1600 or 1700 that	20	certainly preeminently, this lady had heart
	21	evening do you have an opinion as to what it	21	muscle disease. She had a cardiomyopathy. She
	22	would have likely shown?	22	had an abnormal heart rhythm that was
	23	A. On the evening of the 5th, you	23	refractory to medical management and, of
	24	referring to?	24	course, that's why she came into the hospital
	25	Q. On the 5th, yes, shortly after the	25	in order to attempt to control this.
		<b>C C C C C C C C C C</b>		·
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		She also had pulmonary	1	Hulyakar or Dr. Chrismer on both these questions on the day of the 5th to monitor
	23	hypertension which, in and of itself, can be a life threatening condition. She had a history	23	this?
	4	of congestive heart failure. She had poor	4	A. Again, I think I've answered that.
	5	circulation particularly affecting her	5	And I referred to the fact that I don't believe
	[	peripheral circulation. She had a past history	6	the standard of care would necessarily require
	6	of a stroke affecting her left cerebella	7	the measurement of the hemoglobin and
	8	hemisphere. She had two previous pulmonary	8	hematocrit which, in fact, in and of itself in
	9	emboli. She had chronic obstructive lung	9	bleeding can be misleading. But the standard
	10	disease. She also had hepatitis C and that may	10	of care does require monitoring of vital signs
	11	have also been playing a role to some extent,	11	and close attention to the patient, which I
	12	although I think minimally because her liver	12	think the record reflects was given.
	13	functions were not that bad.	13	Q. But certainly the hemoglobin and
	13	But this lady had multiple medical	14	hematocrit test would have shown if the patient
	15	problems and, in essence, her protoplasm was	15	was becoming more anemic, right?
	16	such that any event which would tip the apple	16	MS. CARULAS: Objection.
	17	cart would, I don't believe, allow her to be	17	A. Well, certainly would have shown
	18	salvaged. She really had very, very limited	18	if the patient was becoming more and more
	10	medical and cardiovascular reserve.	10	anemic. But, again, I think I agree with Dr.
	20	Q. Given this woman with vast limited	20	Ballard, that there are erroneous values is
	21	cardiovascular reserve that you discussed can	20	that don't necessarily reflect the physiologics
	22	we agree that the standard of care required at	22	intravascularly that's going on because of
	23	least one more hemoglobin and hematocrit test	22	fluid shift in an acute bleed.
	23	run by Dr. Hulyakar on the 4th and at least one	23	Q. This patient was given two units
	25	more hemoglobin and hematocrit test run by Dr.	25	of blood late in the evening, right?
		more nonogloom and nonacourt corrue by Dr.		or oroda into in the oronning, induct

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	65		66
	A. Yes.	1	of fluid resuscitation at that time. So it's
2	Q. Late in the evening hours and	2	very likely that her actual hematocrit may have
3	early morning hours, right?	3	been higher.
4	A. Yes.	4	Q. Is it you're mixing words here.
5	Q. Okay. How did she react to those?	5	As lawyers we pay attention to these things.
6	A. She had a response. The	6	You say it likely may have been higher?
7	hematocrit and hemoglobin went up.	7	A. More probable than not it would
8	Q. Well, how do you know the	8	have been higher if, in fact, she wasn't given
9	hemoglobin and hematocrit went up?	9	actual fact, what her absolute red cell mass
10	A. Well, I can refer to the fact that	10	was, was probably a little higher than was
11	on the 6th of March at almost two in the	11	reflected by the percentage of red cells as
12	morning she had a hematocrit of 27.2.	12	determined by the lab tests.
13	Q. Okay. And what was the	13	Q. As of the time of this hemoglobin
14	hemoglobin?	14	and hematocrit test about 0200 in the morning
15	A. 9.1. There's usually a 3 to 1	15	was there likely still a bleed occurring?
16	relationship.	16	A. Yes. I believe so.
17	Q. Did the standard of care require	17	Q. What was done to control that
18	her to have been given more blood than was	18	bleed?
19	given to her?	19	A. Well, subsequently, again, to
20	A. No. I don't believe so. I think	20	control the bleed I think that the physicians
21	at that point in time, again, if you use the	21	were monitoring the clinical signs and vital
22	hemoglobin and hematocrit values, it would have	22	signs in giving fluids. But in terms of
23	been appropriate response. But, as I said, it	23	controlling the bleed I'm not sure what you
24	also needs to be guided by vital signs. And,	24	mean. There was nothing done that could have
25	in addition, she was being given a fair amount	25	been done to actually try and intervene to stop
		-	
		1	
	67		68
1		1	68 MS. PETRELLO: Objection. Asked
1 2	67 the area of hemorrhage. Q. Why?	1 2	MS. PETRELLO: Objection. Asked and answered.
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2	the area of hemorrhage. Q. Why?	2	MS. PETRELLO: Objection. Asked and answered. A. Again, I think I answered that. Q. I don't think you did. If you did
2 3	the area of hemorrhage. Q. Why? A. Because, well, certainly I know	2 3	MS. PETRELLO: Objection. Asked and answered. A. Again, I think I answered that.
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		69		70
	1	woman had not passed any more urine. Assuming	1	A. Yes.
	2	that to be the case is that fact evidence of	2	Q. Was the fact that they were having
	3	Mrs. Robinson entering a state of hypovolemic	3	a difficult time getting a peripheral pulse on
	4	shock or in a state of hypovolemic shock?	4	this patient, as of 0300 in the morning and
	5	A. I think, on the basis of	5	throughout the morning hours, was that also a
	6	retrospective, it probably contributed to it.	6	sign or symptom of hypovolemic shock in this
	7	But prospectively better than already had	7	patient?
	8	chronic renal insufficiency. Had already been	8	A. Yes.
	9	seen by a physician who was a nephrologist who	9	Q. Again, something as a physician
	10	was an expert in fluid management and kidney	10	you want to know about if you're talking to a
	11	function. There were other factors that were	11	nurse at 0300 in the morning, right?
	12	playing into the equation there. And I think	12	A. Yes.
	13	they were concerned about her actual kidney	13	Q. Your conclude that this patient
	14	function period.	14	was not salvageable once this bleed began at
	15	Q. I'm not talking standard of care	15	1600 on the 5th. Can you be any more specific
	16	here. I'm not talking whether someone managed	16	than you've been in describing the mechanism as
	17	this right or wrong. What I'm asking is was	17	to why she was not salvageable?
1	18	the fact that she was not passing urine at 0300	18 19	<ul><li>A. No. I don't think so.</li><li>Q. Just basically based on the on</li></ul>
	19 20	in the morning likely a sign or symptom of hypovolemic shock?	20	her history with the difficulties with
	20	A. It likely was.	20	cardiomyopathy. I wrote them all down.
	22	Q. Okay. That's certainly something,	22	Hypertension, congestive heart failure, poor
	23	if you're managing this patient, you want to	23	circulation, past history of stroke, two
	24	know that she's not passing urine as of 0300 in	24	previous pulmonary lung pulmonary emboli?
	25	the morning; is that correct?	25	A. Well, actually it was veinous
		71		72
	1	deep veinous thrombosis.	1	would you have even bothered to give her blood
	2	deep veinous thrombosis. Q. I'm sorry, deep veinous	2	would you have even bothered to give her blood product?
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1A. However, again, one has to2carefully weigh the risk of discontinuing it3versus the risks of continuing it. And this is4a judgment call that would be made by5physicians at the time who have knowledge of6the patient.7Q. Were there other options available8to him aside from Heparin which would have9guarded against DVT and the arrythmia problems10and reduced the risk of the bleed?11A. I don't believe there were other12options. And I think I know what you're13referring to as, I think, your expert referred14to the Greenfield filter.15Q. Yes.16A. This woman was not a candidate for17a Greenfield filter.18Q. Tell my why.19A. Greenfield filters certainly can20impede, mechanically, the possibility of a21thrombosis in the lower extremities. But22certainly one would not prevent any clots from	<ul> <li>there would be a great likelihood of clots</li> <li>developing in the heart and spreading out.</li> <li>Greenfield filter has no role in that.</li> <li>Q. You state in your report on the</li> <li>gosh, I think it's the third full paragraph in</li> <li>reference to the primary indication for</li> <li>anti-coagulation, state that, and I'll quote,</li> <li>this is based on the statistically greater</li> <li>probability of the patient with her risk</li> <li>factors having a life threatening</li> <li>thromboembolic event than one of a hemorrhagic</li> <li>nature, closed quote. Do you see that?</li> <li>A. Yes.</li> <li>Q. Okay. On what are you relying for</li> <li>that statement, Doctor, when you talk about a</li> <li>technically greater probability?</li> <li>A. I'm relying on my background,</li> <li>education and experience and my knowledge of</li> <li>the patient's records.</li> <li>Q. As part of your background,</li> <li>education and training are you relying on any</li> <li>kind of studies?</li> </ul>
<ul> <li>23 occurring in an individual who has paroxysmal</li> <li>24 atrial fibrillation who had previously had a</li> <li>25 stroke. We know that for a fact, as well. But</li> </ul>	<ul> <li>A. Well, I don't think there have</li> <li>been any studies specifically getting an</li> <li>aggregate of patients with exactly the same</li> </ul>
<ul> <li>issues that she has and being able to give us</li> <li>some statistics on this. But</li> <li>Q. So I guess where I'm coming from</li> <li>is what's your basis for a statistically</li> <li>greater probability? I mean, that I guess</li> <li>that means to me that there's a study you're</li> <li>relying on. Does that mean the same to you?</li> <li>A. No, not at all. What I'm saying</li> <li>is that it's more probable than not</li> <li>statistically, in fact, substantially more</li> <li>probable than not statistically that she would</li> <li>have a thrombo embolic event versus a</li> <li>hemorrhagic event that would be life</li> <li>threatening. Hemorrhagic events, more often</li> <li>than not, are controllable and manageable.</li> <li>Thrombolic events cause death of tissue.</li> <li>That's very likely irreversible.</li> <li>Q. So this statistically greater</li> <li>probability is just something that you are</li> <li>relying on, I mean, you're coming to that</li> <li>conclusion based on your experience; is that</li> <li>right?</li> <li>A. Well, it's based on my experience</li> <li>and this particular patient. I'm referring to</li> <li>what is her statistical probability, not the</li> </ul>	<ul> <li>1 literature in the world's published material</li> <li>because she is a very unique patient.</li> <li>Q. Break it down statistically for</li> <li>me. How would you describe that?</li> <li>A. Well, again, you might use more</li> <li>probable than not. That, statistically, would</li> <li>be greater than 50 percent. And I am using</li> <li>that same analogy to base my statement.</li> <li>Q. What's your basis for the</li> <li>statement that this was a difficult yet</li> <li>carefully weighted decision? How do you know</li> <li>it was a carefully weighted decision?</li> <li>A. Well, I have no doubt that, in</li> <li>fact, there was many doctors that were involved</li> <li>in it. None of them expressed any concern</li> <li>about the continuation of the anti-coagulants.</li> <li>They clearly realized the difficulty and the</li> <li>difficult situation they were faced with. And</li> <li>also base it on my review of Dr. Hulyakar's</li> <li>deposition.</li> <li>Q. How do you know that Dr. Chrismer</li> <li>carefully weighted this decision?</li> <li>A. Well, I think you'd have to ask</li> <li>Dr. Chrismer but I would imagine, again, this</li> <li>is my assessment based on my review of the</li> </ul>

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<ul> <li>medical record and the number of physicians</li> <li>involved and the deposition.</li> <li>Q. With regard to Dr. Chrismer you're</li> <li>assuming it is a carefully weighted decision</li> <li>correct?</li> <li>A. Yes.</li> <li>Q. Okay. With regard to Dr. Hulyakar</li> <li>are you assuming it was a carefully weighted</li> <li>decision?</li> <li>A. I am absolutely.</li> <li>Q. Okay. By the way, given the fact</li> <li>that she was on Heparin, and we note that her</li> <li>blood pressure began to fall at 4:00 in the</li> <li>afternoon, wouldn't it have been appropriate</li> <li>that her Heparin had been discontinued at 4:00</li> <li>in the afternoon?</li> <li>A. It would be appropriate to</li> <li>consider the timing when Heparin should be</li> <li>stopped, yes.</li> <li>Q. Okay. Heparin should have been</li> <li>stopped more quickly than it was in this case,</li> <li>correct</li> </ul>	7Q or stopped sooner than it was1Q or stopped sooner than it was2in this case, correct?3A. No. I think that, again, faced4with all the events that were happening5prospectively I think the decisions that were6taken were reasonable decisions. Certainly I7have the blend of hindsight looking at all the8records after her death. And I might say that9it could have been stopped earlier, yes.10Q. Now protamine reversing the11Heparin in the report, you say it's not12uncommonly associated with severe reactions?13A. That's correct.14Q. Yet that can be life threatening,15right?16A. Yes.17Q. What are those, please?18A. Anaphylactic reactions, severe19allergic reactions to the protamine, and20protamine in and of itself is also an21available to her physicians to reverse the23available to her physicians to reverse the24effecting of the Heparin?25A. No. This is the standard
25 MS. CARULAS: Objection.	25 A. No. This is the standard
<ul> <li>77</li> <li>1 medication that, in fact, is used to reverse</li> <li>2 Heparin. It works in an antagonistic way to</li> <li>3 Heparin but, of course, as I pointed out it can</li> <li>4 also be an anti-coagulant.</li> <li>5 Q. Does it also act as an</li> <li>6 anti-coagulant?</li> <li>7 A. If enough of it is given, yes.</li> <li>8 Q. How much needs to be given to act</li> <li>9 as an anti-coagulant?</li> <li>10 A. That's very variable. It depends</li> <li>11 upon patient's idiosyncracy.</li> <li>12 Q. Okay.</li> <li>13 A. But it can certainly do that.</li> <li>14 Q. Okay. What should have been given</li> <li>15 to this patient such that it would not have</li> <li>16 acted as an anti-coagulant? What amount?</li> <li>17 A. I don't know.</li> <li>18 Q. Why don't you know?</li> <li>19 A. Well, I think there were a number</li> <li>20 of dynamic things that were happening in this</li> <li>21 patient at the time. In general, what one does</li> <li>22 is one sort of does an empiric cardiovascular</li> </ul>	<ol> <li>activated clotting time is done at the time and</li> <li>an empiric amount of protamine is given to</li> <li>reverse it.</li> <li>Q. Did Dr. Hulyakar consider</li> <li>reversing this with protamine?</li> <li>A. I don't know what he considered.</li> <li>I would imagine that would have been a thought</li> <li>that would have gone through his mind.</li> <li>Q. Okay. Was there an amount that</li> <li>could have been given to her that would have</li> <li>fallen short of acting as an anti-coagulant?</li> <li>A. Again, as I've answered the</li> <li>question, it is very idiosyncratic and depends</li> <li>upon the kinetics of Heparin. But an amount</li> <li>can be given to reverse Heparin.</li> <li>Q. What do you mean by kinetics of</li> <li>Heparin? I don't understand that.</li> <li>A. The amount of Heparin is excreted</li> <li>by the liver and the kidney. And it is not</li> <li>easy to get a Heparin level in a community</li> <li>hospital. There are some research centers</li> <li>where you can get an actual Heparin level.</li> </ol>
<ul> <li>23 bypass surgery which is where protamine is</li> <li>24 usually used. This is an acute amount of</li> <li>25 Heparin that is given. The measurement of</li> </ul>	<ul> <li>23 Most often it is done by surgical testing.</li> <li>24 But in a person who has kidney and</li> <li>25 liver disease there may be more Heparin on</li> </ul>

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1	board than is simply estimated on the basis of	1	such that it would not have acted as an
2	either the surrogate tests or the amount of	2	anti-coagulant in this patient, correct?
3	Heparin that was given as a total amount and	3	A. No. I wouldn't. As I pointed out
4	the half life of Heparin, which is about an	4	I'm not sure that I would have used protamine,
5	hour and a half.	5	or I would have recommended protamine in this
6	Q. What does that mean?	6	patient. Prospectively, considering all the
7	A. What it means is that there are	7	events that were happening.
8	many factors that go into that equation. And	8	Q. What adverse reactions would you
9	the factors are the amount of Heparin that is	9	have expected from this patient? You say in
10	given, the test that is used which is a	10	terms of probability whether she would have had
11	surrogate for Heparin and the metabolism of	11	any adverse reactions to the administration of
12	Heparin and the uniqueness of the patient's	12	protamine?
13	clinical condition.	13	A. Well, I think as a premise, first
14	Q. Do you have any indication that	14	off, I would not have recommended protamine.
15	Dr. Hulyakar entertained any of this?	15	Q. Because it can act as
16	A. I don't know. I would imagine	16	anti-coagulant?
17	that in a patient who's bleeding, was on	17	A. No. Because I at least would have
18	Heparin, when one considers continuing	18	been following the patient, following vital
19	anti-coagulation these factors go into the	19	signs and following fluid and blood
20	assessment.	20	replacement. And I believe that, in fact, her
21	Q. Certainly, Doctor, you would have	21	risk of thrombo embolic events were quite
22	expected that, to meet the standard of care,	22	substantial.
23	Dr. Hulyakar, at some time during the course of	23	l do not believe that, in fact,
24	the evening, had to have considered utilizing	24	giving protamine to this patient would have
25	protamine in an amount that would have been	25	made any difference or would have changed the
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1	circumstances. I would not have recommended	1	Q. Anything else?
2	circumstances. I would not have recommended protamine.	2	<ul><li>Q. Anything else?</li><li>A. No. Those are the main ones.</li></ul>
2 3	circumstances. I would not have recommended protamine. Q. And just so I understand, you talk	2 3	<ul><li>Q. Anything else?</li><li>A. No. Those are the main ones.</li><li>Q. Any minor ones?</li></ul>
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2 3 4 5	circumstances. I would not have recommended protamine. Q. And just so I understand, you talk in terms of acting an as anti-coagulant and you also talk in terms of other adverse reactions.	2 3 4 5	<ul><li>Q. Anything else?</li><li>A. No. Those are the main ones.</li><li>Q. Any minor ones?</li><li>A. Well, I think in any person getting any medication there are always</li></ul>
2 3 4 5 6	circumstances. I would not have recommended protamine. Q. And just so I understand, you talk in terms of acting an as anti-coagulant and you also talk in terms of other adverse reactions. You mentioned severe allergic reactions. Were	2 3 4 5 6	<ul> <li>Q. Anything else?</li> <li>A. No. Those are the main ones.</li> <li>Q. Any minor ones?</li> <li>A. Well, I think in any person</li> <li>getting any medication there are always</li> <li>idiosyncratic reactions but I think we've</li> </ul>
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	85		86
1	Q. You're telling me that if she had	1	minute. Let me review my notes, Doctor. I may
2	not been on Heparin during this hospitalization	2	almost be done with you.
3	that it's more likely than not that the	3	Does anybody else have any
4	puncture in the femoral vein area would have	4	questions of the doctor while I'm reviewing
5	bled to this extent anyways? Is that what	5	this?
6	you're saying?	6	MS. PETRELLO: No.
7	A. No, that's not what I'm saying.	7	MR. HUDAK: No.
8	Q. Okay.	8	Q. Okay. I'm going to put the phone
9	A. I think originally you asked me a	9	down for just a moment. Doctor, are you still
10	question as to what was the cause of the	10	there?
11	retroperitoneal bleed. And I answered that I	11	A. Yes.
12	don't know exactly what the cause. But there	12	Q. Let me just ask you, again,
13	are several possibilities. One of the	13	hypothetically, you learned what Dr. Hulyakar
14	possibilities was spontaneous bleed from the	14	learned with regard to this patient as of 10:30
15	anti-coagulation.	15	or so that evening on the 5th. It's your
16	Q. Okay.	16	patient, okay and Ann, I understand your
17	A. Then another was that it was a	17	objection what would you have done in this
18	bleed from the puncture site which either	18	scenario?
19	stopped or possibly re-bled. But I really	19	MS. CARULAS: Note my objection.
20	don't know which was the reason for the bleed.	20	A. I certainly would have stopped the
21	And I think in this hypothetical I	21	Heparin as was done subsequently. And I would
22	cannot discriminate in terms of what the cause	22	have continued to do what the physicians did at
23	was so I certainly cannot say that she wouldn't	23	that time. As I've already answered it would
24	have bled had she not been on Heparin.	24	be my practice to get a hemoglobin/hematocrit.
25	Q. Okay. I understand. Hold on a	25	But otherwise I would have done pretty much
	87		88
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1 2	what they did. Q. Hold on a minute. And, Doctor,	2	CCU at 1:30 in the morning? A. I'm just going to refer to the
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	<ul> <li>what they did.</li> <li>Q. Hold on a minute. And, Doctor, just I think I know what you're going to say and where you're going but I have to ask you your opinion with regard to her life span. Two more years. Why do you say that?</li> <li>A. Well, I think that was being generous. I think what I said was</li> <li>Q. I think you said at most two more years?</li> <li>A. At most. Yeah. I think that's based on my knowledge of pathology and the diseases that she has, or had.</li> <li>Q. Was she hemodynamically stable from 1:20 in the morning until six a.m. in the morning?</li> <li>A. On the 6th?</li> <li>Q. On the 6th, yes.</li> <li>A. No, I think she was hemodynamically fragile.</li> <li>Q. From when to when?</li> <li>A. Well, I think it's apparent</li> </ul>	$ \begin{array}{c} 2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\end{array} $	CCU at 1:30 in the morning? A. I'm just going to refer to the vital sign monitoring. Q. Yeah. Please go ahead. A. Okay. There's a flow sheet termed critical care flow sheet which I'm looking at now. Q. Okay. A. And this is obviously what you're referring to 1:30 in the morning. Up until nearly 10 in the morning, I guess it was nine, 9:05, there are values for blood pressure. And it's apparent that at least with some of the resuscitative measures when she first presented and was admitted to the ICU that her pressures went up, that the pressure's up to about actually 3:20, it dropped again below but in actual fact at 4:30 there is a systolic reading that looks like 130. But I'm not sure what this diastolic is. It says 26. I can't believe that. Q. Why?

	89		90
1	Q. Okay.	1	any difference.
2	A. Especially with a systolic of 130.	2	Q. Would they possibly have made any
3	But, overall, the point being that there were	3	difference?
4	attempts at resuscitation during this period	4	A. I don't know.
5	and her blood pressures were not able to be	5	Q. All right. Doctor, that's all I
6	sustained in any reasonable value. So that's	6	have.
7	the reason that I'm saying she was	7	A. Thank you.
8	hemodynamically fragile and I guess you could	8	Q. Thank you, Doctor. Thank you for
9	say unstable certainly from beyond 3:20 in the	9	the time.
10	morning.	10	MS. PETRELLO: I have no
11	Q. At 3:20 in the morning would the	11	questions.
12	administration of additional blood products	12	MR. HUDAK: Nor do I.
13	have at least served to make her more stable	13	MS. CARULAS: You have the right
14	than she was in terms of probability?	14	to read over the transcript to make sure it's
15	MS. CARULAS: Objection. This has	15	been taken down accurate on your behalf. It's
16	been gone over extensively but go ahead one	16	your option.
17	more time. And then you'll let me get my	17	THE WITNESS: I'll waive it.
18	plane, right?	18	
19	Q. Yeah.	19	(Signature waived)
20	A. I actually don't believe so.	20	RONALD SACHER, M.D.
21	Because I think at this point in time she is	21	
22	shocked, her reserve probably is really quite	22	(DEPOSITION CONCLUDED AT 2:15 P.M.)
23	depleted and even the administration of	23	
24	additional blood products probably would not	24	
25	more probable than not, I should say, have made	25	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	91 CERTIFICATE STATE OF OHIO : SS COUNTY OF HAMILTON I, Valerie Jones Conn, the undersigned, a duly qualified notary public within and for the State of Ohio, do hereby certify that RONALD SACHER, M.D. was by me first duly sworn to depose the truth and nothing but the truth; foregoing is the deposition given at said time and place by said witness; deposition was taken pursuant to stipulations hereinbefore set forth; deposition was taken by me in stenotypy and transcribed by me by means of computer; deposition was submitted to the witness for examination and signature; I am neither a relative or any of the parties or any of their counsel; I am not, nor is the court reporting firm with which I am affiliated, under a contract as defined in Civil Rule 28(D) and have no financial interest in the result of this action. IN WITNESS WHEREOF, I have hereunto set my hand and official seal of office at Cincinnati, Ohio, this day of, 2001.		
25	September 4, 2002 Notary Public - State of Ohio		

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