In The Matter Of:

Doll, et al. vs.University Hospitals of Cleveland, et al., No. 297828

Deposition of Clark H. Millikan, M.D. November 6, 1997

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			Page 3
	AS	[1] CLARK H. MILLIKAN, M.D.	
		[2] called by the Defendants for examinat	ion under the Ohio
COTAHOGA COUNT	I	[3] Rules of Civil Procedure, after having	been first duly
PATTY DOLL, ET AL.,)	[4] sworn, as hereinafter certified, was ex	amined and
Plaintiffs.)	[5] testified as follows:	L
VS.) Case No. 297828	[6] MA. MOSCARINO: The record shoul	u)
UNIVERSITY HOSPITALS OF)	^[7] Clark H Millikan who has been identif	Jr. Ted as
CLEVELAND ET AL)	an expert witness in the case of Doll y	ersus
)	110) University Hospitals of Cleveland.	
	/	[11]	
DEPOSITION OF CLARK H. MILLIKAN	n, M.D.	[12] (Defendant's Exhibits A and B	
Thursday, November 6, 1997		[13] were marked for identification.)	
Deposition of CLARK H. MILLIKAN, M.D., ca	alled by the	[14]	
Defendants for examination under the Ohio I	Rules of Civil	[15] EXAMINATION	
Procedure, taken before me, the undersigne	ed, Mary Ann	[16] BY MR. MOSCARII	NO:
Fiynn, Registered Professional Reporter, a N	Notary Public	[17] C : Dr. Millikan, we met just a second	l ago. My name
in and for the State of Obio, at the offices of	Becker &	[18] is George Moscarino and I'm the attorn	ney for
Michkind Co. L.D.A. Sladight Office Tower	Suite 660	[9] University Hospitals of Cleveland, and	l'm here just
MISHKINGCO., L.P.A., Skylight Office Fower,	Suile 660,	[10] to ask you some questions about your	a what you're
1660 West Second Street, Cleveland, Ohio	44113,	ral saving fair enough?	g what you le
commencing at 11:10 a.m. the date and time	e above set	(2) Saying, fair chough :	
forth.		O: Every once in a while I drop off	or I don't talk
	·····	[15] quite as loud as I should or I talk a little	e too fast.
		Page 2	
APPEARANCES:			Page 4
On Behalf of the Plaintiffs:		1] Let me know if you don't understand r	ny question, all
Howard D. Mishkind, Esg		$\frac{2}{31} \Delta \cdot \mathbf{Ves}$	
Becker & Mishkind Co. I. P.A.		4) 0: You issued a report dated June 1	3,1997which
		5] I've marked as Exhibit B; is that right?	-,-,,
		6] A: Yes, sir.	
Tobo west Second Street		Q: Is that your only report in this cas	se?
Cleveland, Ohio 44113		A: Yes.	
On Behalf of Defendant University Hospital	ls of	(i) Q: Do you have any drafts of that rej	port?
Cleveland:		$\begin{bmatrix} 10 \end{bmatrix}$ A. Nothing other than this.	d is a CV that
George M. Moscarino, Esq.		[11] C. Okay. Exhibit A which I ve marke	ing?
Arter & Hadden		131 A: Yes. sir.	ing.
1100 Huntington Building		[14] Q: Is that current?	
Cleveland, Ohio 44115		is] A: Not quite.	
On Behalf of Defendants Michael T. Gyves, I	M.D. and	Q: Tell me what needs to be on ther	е.
Partners in Women's Healthcare Inc	······································	A: I'm no longer at the Medical Colle	ege of Ohio. I
		[18] am now in Salt Lake City, Utah and I'm	director of
Joseph Farchione, Esq.		[19] academic attairs for the Inter Mountain	Society for
Jacobson, Maynard, Tuschman & Kaiu	r	[20] Stroke Kesearch. Inter Mountain Found	ation for Stroke
1001Lakeside Avenue, Suite 1600)	(21) NUSCALULI.) Utah?
Cleveland. Ohio 44114		[13] A: September 1997.	, cum.
		Q: So it's a recent move, right?	
		A: Yes, sir.	

Page 5	Page 7
Q: And give me the title of your current job again?	1) additional materials you've been furnished.
[2] A: I am director of academic affairs for the Inter	[2] A: A report from Lawrence Wechsler, a report from
[3] Mountain Stroke Research Foundation.	[3] Jeffrey King, a report from Thomas R. Price, the
[4] Q: And what are your duties in that job?	[4] deposition is on the list but I have got a new copy, a
A: My duties are to see patients in the outpatient	[5] deposition of Patty Doll, the deposition of John
^[6] department of the foundation, to see patients	[6] Nemunaitis, a deposition of Alan J. Lerner, the
[7] principally in Cottonwood Hospital as inpatients,	[7] deposition of George Dewey Doll, a report of a
[8] mainly with stroke but with other neurologic	[8] neuropsychologic examination signed by Barry Layton, a
[9] conditions, to respond to calls from the emergency	g report on a speech and language evaluation signed by
10 rooms of Cottonwood Hospital, LDS Hospital and Alta	¹⁰ Cloe Glasson and a letter to Mr. Mishkind dated
(1) Vue Hospitals in Salt Lake City, to construct a	n October 14,1997 signed by Alan I. Lerner.
training program of education for nurses, physicians.	MB MISHKIND: I think there is
(13) physicians' assistants on stroke in these hospitals	a one other item in there. Dr Riggs' report
and throughout the Inter Mountain Health Care System	also I'm not sure be mentioned that
(15) of 21 hospitals	A : A letter of August 6 1997 signed by Dr Jack
0 So this Inter Mountain term is a hospital	a Riggs
(1) system?	π . O: Can I see that hig nile of materials please?
(i) Δ . Yes sir	γ Q. Can rise that big pric of matchais, prease γ
(0) Are you then an employee of the Inter Mountain	a) A. Suic.
[19] Q. The you, then, an employee of the inter mountain	g question that the review of these additional materials
rou A: No sir	(i) question that the review of the eminions that you
[21] A. NO, SII.	1] didn't change of alter any of the optitions that you
[22] Q. who are you an employee of?	2] set forth in writing on Exhibit B?
[23] A. I man employee of the Inter Mountain Stroke	3] A: Yes, SIT.
[24] Research Foundation. we have a contractual	[4] Q: And this big black binder here, is this your
[25] relationship to inter Mountain Health Care System.	²⁵ copy of the records?
Page 6	Page 8
[1] Q: Doctor, how much of your time is spent seeing	A: Yes, sir.
[2] patients now that you're out in Utah?	[2] Q: According to your report, you reviewed the
[3] A: Between 60 and 65 percent.	3] labor, delivery and post partum records from
[4] Q: And what is the balance of the time spent on?	4) University Hospitals and the St. Luke's records in
[5] A: It is spent in the teaching activities and the	5] their entirety, right?
[6] construction of the teaching programs. I do editorial	61 A: The records furnished to me, yes, sir.
[7] work for the Journal of Stroke and the Journal of	7) O: Have you ever looked at the records from Meridia
[8] Stroke and Cerebral Vascular Disease and review papers	81 Huron Hospital or rehabilitation facility.which I
(9) for other journals such as New England Journal of	st will represent to you is the place where Mrs. Doll
[10] Medicine and Annals of Internal Medicine and Neurology	a went from St. Luke's?
[11] and journals of that category.	1 A: No. sir.
0: Are all of the opinions that you have about the	MB MISHKIND: You don't mean
⁽¹³⁾ case involving Mrs. Doll and University Hospitals and	a Huron Road
(14) the other doctors contained in this Exhibit B, your	MB MOSCAPINO: What do I mean?
(15) report of June 13?	MR MISHKIND: Fuclid General
(in) A. Yes sir	a O: Maridia Euclid I'm sorry
[in] O: You haven't changed any of the opinions that	m MD MISHKIND: That's alway I
(a) have been set forth in that letter to Mr Mishkind?	7] WIR, WISHKIND. Illat Sokay.1
$\mathbf{A} = \mathbf{A} \cdot \mathbf{C}$	by Kinew what you were tarking about.
[0] A. Conten.	y Q: The answer is the same, right?
$[\omega] = \chi$. Now, since the time that you reviewed the	U A: COFFECI, SIF.
an have you been furnished with some additional meterial	1) Q: I nanks. MD MICHIKIND, W. 11- (c. 1. (b. (
_[22] have you been furnished with some additional material	2] WH. WISHKIND: We like to do that
$\mathbf{A} = \mathbf{A} \cdot \mathbf{V}_{\mathbf{A}}$	3] every once in a while, Doctor. You can
[24] A. 105, 511.	4) disregard us. Ω What portion of these materials did you review
[25] Q. Why don tyou just ten me, for the record, what	3 V. What portion of these materials and you review

	Page 9	Page 11
[1]	in preparation for today's proceedings?	[1] bacteriemic?
[2]	A: Close to all of them.	[2] A: She had a positive blood culture which
[3]	Q: Did you look at the films again?	[3] identified that she was bacteriemic.
[4]	A: Yes, sir.	[4] Q: It's your opinion in this case that - you tell
[5]	Q: When did you look at the films?	[5] me when I m wrong. I read your report. If understand
[6]	A: This morning.	[6] you correctly, it's your opinion that this lady had an
[7]	G: Which films did you look al?	[7] embolus?
[8]	A: Hooked at CI scans of the four, 19th, 21st	[8] A: Yes, sir.
[9]	MRI done in 1996. MRA done in 1996. I think those	[9] Q: And I take it from your report that you
[10]	are the ones.	10] basically have two alternative theories as to the
[11]	Q: Doctor, is there an increased risk of stroke for	11] source of the embolus; am I right?
[12]	women who are in the post partum period?	A: There are more places than that. There are two
[13]	A: Yes. The chance of stroke in the postpartum	3) questions involved. One is, what was the mechanism
[14]	period is approximately one out of 12,000.1f we	4] which produced the embolus, and, secondly, where did
[15]	define "post partum period" as six weeks following	5] the embolus come from, and the embolus could come from
[16]	parturition, that is a bit higher than though there	6] a number of places. The mechanism remains uncertain.
[17]	had not been parturition.	7 Q On page two of your report you set forth two
[18]	Q: What was that last part? If there had not been,	aj equally reasonable explanations for the stroke; am I
[19]	what, pregnancy?	9] right?
[20]	A: Pregnancy and delivery.	oj A: Yes, sir.
[21]	Q : So what is the risk of stroke of someone who is	Q: Both of those explanations are premised on the
[22]	a female of Patty Doll's age who is not in the post	2] fact that Mrs. Doll was septicemic, correct?
[23]	partum state?	3] A: Not necessarily, no.
[24]	A: In the same period of time, about one in	4] Q: Let me point you to -
[25]	100,000.	5] A: She may have platlet aggregation and clot
	Page 10	Page 12
F41	O: If I ask you to tell me how many more times	in formation without being senticemic
111	likely a women who is in the post partum state is to	ra O: Okay I'm just going to quote from your report
[3]	have a stroke than someone who is not in the post	and tell me where I'm wrong You said "Two equally
[4]	nartum state what is your answer?	(a) reasonable explanations for this stroke exists both
151	A : The answer is the relationship is between one	j reasonable explanations for this stroke exists, both
[6]	out of 12 000 and one out of 100 000 so that's about	Δ · Ves sir
[0] [7]	eight to one	[0] A. 103, SI.
101		\sim 0: And my question to you was are both of those
[8]	O. Why is there an increased risk to women who are	[7] Q: And my question to you was, are both of those
roi	Q: Why is there an increased risk to women who are in the post partum state for stroke?	 Q: And my question to you was, are both of those explanations premised on the fact that she was senticemic?
[9] [10]	Q: Why is there an increased risk to women who are in the post partum state for stroke? A: I don't know	 Q: And my question to you was, are both of those explanations premised on the fact that she was septicemic? A: No sir
[9] [10]	 Q: Why is there an increased risk to women who are in the post partum state for stroke? A: I don't know. Q: Does anybody know? 	 Q: And my question to you was, are both of those explanations premised on the fact that she was septicemic? A: No, sir. O: Why not?
[9] [10] [11]	 Q: Why is there an increased risk to women who are in the post partum state for stroke? A: I don't know. Q: Does anybody know? A: I don't think so 	 [7] Q: And my question to you was, are both of those [8] explanations premised on the fact that she was [9] septicemic? [0] A: No, sir. [1] Q: Why not? [2] A: In her instance there was continent but there
[9] [10] [11] [12]	 Q: Why is there an increased risk to women who are in the post partum state for stroke? A: I don't know. Q: Does anybody know? A: I don't think so. Q: It's your conclusion in this case that Mrs Doll 	 [7] Q: And my question to you was, are both of those [8] explanations premised on the fact that she was [9] septicemic? [0] A: No, sir. [1] Q: Why not? [2] A: In her instance, there was septicemia but there [3] an her a platlat accreastion the formation of elot
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[9] [10] [11] [12] [13] [14] [15] [16]	 Q: Why is there an increased risk to women who are in the post partum state for stroke? A: I don't know. Q: Does anybody know? A: I don't think so. Q: It's your conclusion in this case that Mrs. Doll was septicemic? A: Yes, sir. Q: What does that term mean? 	 Q: And my question to you was, are both of those explanations premised on the fact that she was septicemic? A: No, sir. Q: Why not? A: In her instance, there was septicemia but there can be a platlet aggregation, the formation of clot, the development of embolus or emboli from the clot, without there being septicemia.
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[9] [10] [11] [12] [13] [14] [15] [15] [16] [17] [18]	 Q: Why is there an increased risk to women who are in the post partum state for stroke? A: I don't know. Q: Does anybody know? A: I don't think so. Q: It's your conclusion in this case that Mrs. Doll was septicemic? A: Yes, sir. Q: What does that term mean? A: Means an infection in the blood. Q: Is septicemia the same thing as bacteriemic? A: Not necessarily 	 Q: And my question to you was, are both of those explanations premised on the fact that she was septicemic? A: No, sir. Q: Why not? A: In her instance, there was septicemia but there can be a platlet aggregation, the formation of clot, the development of embolus or emboli from the clot, without there being septicemia. Q: It's your opinion, though, in this report that the stroke was related to the septicemia? A: Yes, there was a relationship, I think.
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[9] [10] [11] [12] [13] [14] [15] [16] [17] [19] [20] [21]	 Q: Why is there an increased risk to women who are in the post partum state for stroke? A: I don't know. Q: Does anybody know? A: I don't think so. Q: It's your conclusion in this case that Mrs. Doll was septicemic? A: Yes, sir. Q: What does that term mean? A: Means an infection in the blood. Q: Is septicemia the same thing as bacteriemic? A: Not necessarily. Q: Bacteriemia means a bacterial infection in the blood? 	 Q: And my question to you was, are both of those explanations premised on the fact that she was septicemic? A: No, sir. Q: Why not? A: In her instance, there was septicemia but there can be a platlet aggregation, the formation of clot, the development of embolus or emboli from the clot, without there being septicemia. Q: It's your opinion, though, in this report that the stroke was related to the septicemia? A: Yes, there was a relationship, I think. Q: Is it your opinion that, at the time of the stroke, Mrs. Doll was dehydrated?
[9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22]	 Q: Why is there an increased risk to women who are in the post partum state for stroke? A: I don't know. Q: Does anybody know? A: I don't think so. Q: It's your conclusion in this case that Mrs. Doll was septicemic? A: Yes, sir. Q: What does that term mean? A: Means an infection in the blood. Q: Is septicemia the same thing as bacteriemic? A: Not necessarily. Q: Bacteriemia means a bacterial infection in the blood? A: Yes. 	 Q: And my question to you was, are both of those explanations premised on the fact that she was septicemic? A: No, sir. Q: Why not? A: In her instance, there was septicemia but there can be a platlet aggregation, the formation of clot, the development of embolus or emboli from the clot, without there being septicemia. Q: It's your opinion, though, in this report that the stroke was related to the septicemia? A: Yes, there was a relationship, I think. Q: Is it your opinion that, at the time of the stroke, Mrs. Doll was dehydrated? A: Yes, to some degree.
[9] [10] [11] [12] [13] [14] [15] [15] [16] [19] [20] [21] [22] [23]	 Q: Why is there an increased risk to women who are in the post partum state for stroke? A: I don't know. Q: Does anybody know? A: I don't think so. Q: It's your conclusion in this case that Mrs. Doll was septicemic? A: Yes, sir. Q: What does that term mean? A: Means an infection in the blood. Q: Is septicemia the same thing as bacteriemic? A: Not necessarily. Q: Bacteriemia means a bacterial infection in the blood? A: Yes. Q: Septicemia means what 	 Q: And my question to you was, are both of those explanations premised on the fact that she was septicemic? A: No, sir. Q: Why not? A: In her instance, there was septicemia but there can be a platlet aggregation, the formation of clot, the development of embolus or emboli from the clot, without there being septicemia. Q: It's your opinion, though, in this report that the stroke was related to the septicemia? A: Yes, there was a relationship, I think. Stroke, Mrs. Doll was dehydrated? A: Yes, to some degree. Q: Is it your opinion that the stroke is related to
[9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [20] [21] [22] [22] [22] [24]	 Q: Why is there an increased risk to women who are in the post partum state for stroke? A: I don't know. Q: Does anybody know? A: I don't think so. Q: It's your conclusion in this case that Mrs. Doll was septicemic? A: Yes, sir. Q: What does that term mean? A: Means an infection in the blood. Q: Is septicemia the same thing as bacteriemic? A: Not necessarily. Q: Bacteriemia means a bacterial infection in the blood? A: Yes. Q: Septicemia means what A: Inf. ction which can include a virus 	 Q: And my question to you was, are both of those explanations premised on the fact that she was septicemic? A: No, sir. Q: Why not? A: In her instance, there was septicemia but there can be a platlet aggregation, the formation of clot, the development of embolus or emboli from the clot, without there being septicemia. Q: It's your opinion, though, in this report that the stroke was related to the septicemia? A: Yes, there was a relationship, I think. Q: Is it your opinion that, at the time of the stroke, Mrs. Doll was dehydrated? A: Yes, to some degree. Q: Is it your opinion that the stroke is related to or linked to the dehydrated state?

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	Page 13		Page 15
[1]	A: The matter of the inflammatory reaction in	[1	associated with this kind of change.
[2]	general including the septicemia. When the operation	12	These are the actual ways in which the blood
[3]	was performed and the foreign body removed, it was	[3	wy vessel gets occluded. I get back to the one we call a
[4]	noted that there was damage to the wall of the bowel,	[4	hemodynamic mechanism in which there is a marked drop
[5]	and this produces a chemical reaction and inflammatory	15	in blood pressure and the person goes into shock and
[6]	responses.	16	there is a narrowed vessel in the brain There may
[7]	There was evidence in the white blood count.	17	then be a decrease in focal blood flow distal to that
[8]	which went up to about 18,000. There was some		y narrowing so that there is a stroke Those are the
(9)	decrease a bit of a decrease in the hemoglobin and	[0	manowing so that there is a stoke. Those are the
[10]	hematocrit which are changes that are produced in	[9	The other hig ture of stroke is blooding and
[11]	this fashion There was a blood test called the		the tis due to sustemprily a break in the blood yessel
[10]	D.Dimer which is abnormal which suggested that there	11	in the blood vessel
[12]	is pathology in the fibrin fibringen complex	12	b) of for some reason there is a homorphone. Like and
[13]	s these were all things that were abnormal and	13	jout of the vessel and there is a hemorrhage, like one
[14]	so these were all things that were abhormal and	14	a) can bleed from a broken vessel in the skin, et cetera.
[15]	produced a modified disseminated intravascular	15	Those are the two big categories of stroke.
[16]	Coaguration state which is associated with clothing.	16	Q: Just so I'm clear, the two big categories are
[17]	Q: Getting back to this post partum state, is the	17	j ischemic or, what, hemorrhagic stroke?
[18]	post partum state itself a recognized cause of stroke?	18	A: Hemorrhagic, yes, sir.
[19]	A: It is recognized that there is an increased	19	Q: And what did Mrs. Doll have, in your opinion?
[20]	incidence or frequency of stroke. The actual cause of	20	A: She had hemorrhagic transformation of a cerebral
[21]	the strokes during that period of time is generally	21	infarct.
[22]	not known.	22	Q: Where does that fit in, hemorrhagic or ischemic
[23]	Q: I just want to make sure that I understand the	23	stroke or neither?
[24]	way you're using some of the terms.	24	A: It fits basically into ischemic stroke.
[25]	A: Yes, sir.	25]	Q: What does it mean to have hemorrhagic
	Page 14		Page 16
[1]	Q: "Mechanism of the stroke" means what?	6	transformation of a cerebral infarct?
[2]	A: Means the actual cause of the occlusion of the	121	A: It means that as the tissue dies, there is still
[3]	artery which produced the stroke.	(3)	some blood getting into the area, although a small
[4]	Q: So what are examples of actual causes of the	[-]	amount and as the tissue dies, the little blood
[5]	occlusion of the artery which produced the stroke?	151	vessels die they seen blood and the appearance of
[6]	A: The basic causes -	[0]	that blood in the infarct then is called a hemorrhagic
[7]	MR. MISHKIND: Are you talking in	101	transformation
[8]	general or are you talking about with	[1]	Ω : And in what vessel did Mrs. Doll have this
[9]	specifics to this case?	[0]	stroke?
(10)	MB. MOSCARINO: No I was trying	[3]	Show:
f111	to find out in general what examples are		A. The general distribution of the initiale cerebrat
(12)	MB. MISHKIND: Okay Fine		α are you able to tall main which yessel the
લવા	A: Yes sir The basic cause of infarct which is a	12]	Q. Ale you able to tell life in which vessel the
[10]	stroke produced by a decrease in blood supply the	13]	
(15)	hasic causes are occlusion of a vessel commonly by	14]	A: NO, SIF.
1.01	thrombus or embolus; maybe a decrease in arterial	15]	Q: Why not?
[10]	noticion pressure secondary to such things as trauma	16]	A: I simply don't know, sir.
04	with shock beart attacks with impaired condice	17]	Q: How does one, whether you're a neurologist or a
[18]	with shock, heart attacks with imparied cardiac	18]	neuroradiologist or whomever, go back and make a
[19]	blood weeks of the structure the function of the blood vessel of	19]	determination as to which vessel the stroke originated
[20]	blood vessels which stimulates the forming of a clot,	201	in?
[21]	which, in turn, occludes the vessel.	21]	A: Well, if you -
[22]	Such inflammation may be in the form of a	22]	MR. MISHKIND: Let me just object
[23]	vasculitis. It may be secondary to an overt	23]	only because you said in which vessel the
[24]	intection. It may be associated with something like	24]	stroke. You mean in which vessel are you
[25]	meningitis. There is a disorder called lupus which is	25]	talking about the clot originated?

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[1]	MR. MOSCARINO: If he doesn't	[1] are now hunting for emboli with embolus-detection
[2]	understand me -	[2] testing in the neck.
[3]	MR. MISHKIND: Okay. I'm just	[3] We look at the contents of the blood. We know
[4]	objecting because I'm not sure -	[4] that people, for instance, with too many red blood
[5]	MR. MOSCARINO: Okay. That's	[5] cells may get clotting in various parts of the body or
[6]	fine.	[6] decrease in blood flow. So we look at the red blood
[7]	MR. MISHKIND: – what your	[7] count.We look at the white blood count as evidence
[8]	question is.	[8] of possible infection. We look at the hemoglobin
[9]	MR. MOSCARINO: You're allowed to	^[9] because it may decrease the capacity of the blood to
[10]	object.	o; carry oxygen to the brain. We look at hematocrit.
[11]	MR. MISHKIND: Thanks. Every once	11] These are all a series of things that we do.
[12]	in a while I do that.	Then we get into testing for coagulation
[13]	Go ahead, Doctor.	^{13]} mechanisms, and this testing can be extensive. We are
[14]	A You asked about neuroradiologists.	^{14]} hunting for evidence that the patient may have a
[15]	Neuroradiologists never make such a determination.	5 hypercoagulable state. Now, that will not necessarily
[16]	Q : Who does make the determination, if anybody?	is tell us, if we find same, where the embolus started,
[17]	A That determination is customarily made by a	but it will tell us that there is a propensity for
[18]	neurologist, general internist, family physician, et	B clotting, and, therefore, for embolus formation.
[19]	cetera.	We look at Factor-C. We look at Factor-S and we
[20]	Q: And what tests do those doctors who practice in	²⁰ look at 3-A, 3-B.We look at phospholipid antibodies.
[21]	those disciplines use to make the determination as to	We look for D-Dimer. We test fibringen, for
[22]	where the stroke originated from?	^{22]} instance. We go through a battery of items, including
[23]	A: The testing begins with the physical	^{23]} Factor 2, which is prothrombin, and we do plasma
[24]	examination, and one of the common sites of trouble is	determinations to see whether there is any change in
[25]	the heart, and so there may be the detection of	25] antithrombin 3 and a whole variety of things to see
		Page 20
[1]	cardiac murmurs, of a change in the size of the heart	[1] whether there is too much of a tendency or an abnormal
[2]	of a change in the rhythm of the neart, a common	[2] tendency for the person to develop clotting.
[3]	change in the latter being auricular fibriliation,	[3] So these are some of the things that we do as
[4]	which, in turn, is associated with clot formation in	[4] far as blood examination is concerned. We look for
[5]	the neart. So that the piece of material which	[5] diabetes. We look at the lipid profile because we
[6]	becomes an embolus comes from the neart.	[6] know that hyperlipidemia constitutes a risk factor for
[7]	we listen to the neck and we are listening for	[7] stroke.
[8]	bruit or noises, which may indicate that there is some	[8] We go to things like the chest X-ray to see
[9]	narrowing there, and the narrowing may be associated	^[9] whether there is a change in cardiac outline. We get
[10]	with clot formation. Many of us look in the eye and	ioj an EKG immediately in the ER to see whether there is a
[11]	we search for tiny emboli, which are little pieces of	11] change in rhythm or there is any evidence of a
[12]	material, and if we find such emboli, we recognize	^[2] previous heart attack, myocardial infarction, because
[13]	that statistically those emboli have come from a	3] if there is an idiodynamic segment in the heart, this
[14]	lesion, a clotting lesion, in the carotid artery or in	14] is a source of clotting and embolus formation.
[15]	the aorta.	15] We look for such things as pericarditis. We do
[16]	So we kind of start with this physical	16] a sedimentation rate to see whether there is any
[17]	examination matter. we have a variety of tests that	^{17]} evidence, for instance, of periarteritis nodosa,
[18]	we do, we make a distinction between hemorrhage and	^[8] which is a disorder of the blood vessel system, which
[19]	infarct by doing a C1 scan. Do you want me to proceed	19] can cause a stroke.
[20]	with the -	^{20]} In the last couple of decades, we often in the
[21]	Q: Sure.	21] ER do a tox screen because ingesting of certain agents
[22]	A: we nave a variety of tests that we do. We do a	²² such as cocaine, heroin and so forth can be associated
[23]	there appears to be some alteration in the flow.	[3] With blood vessel changes, which, in turn, can be
[24] (251	note appears to be some aneration in the now	²⁴ associated with an increased tendency to clot, we look
60	Datterns there, we do nanseraliar DODDIEL allu we	

	Page 21	Page 23
[1]	In the history, we get into the background of	(1) probability.
[2]	whether an individual has had X number of strokes or	0: Of the tests that you recited for me in that
(3)	heart attacks, in other words, vessel disease of	(3) long answer, a great majority of those were performed
[4]	various kinds.We, of course, measure the blood	⁴¹ at the ordering of Dr. Lerner: is that correct?
(51	pressure to see whether the individual is hypertensive	$_{151}$ A : Yes. sir.
[6]	or not.	0: And none of those tests gave an answer as to
[7]	We look at renal function, the function of the	^[6] what the cause of the stroke was?
(81	kidneys, to find out whether there has been any	A: They gave no answer as to the source of the
[9]	alteration there, which may indicate a background of	embolus There were abnormalities
[10]	vascular disease. We do a similar thing as far as the	0: Was it Dr Lerner's conclusion at the time of
[14]	lung is concerned in our chest X-ray profile. We are	10 vi the hospitalization that there was an embolus if you
1121	looking for items such as sarcoidosis for instance	(a) know?
[14]	which can turn up in the chest and can be associated	12] Know :
[13]	with stroke production. These are a variety of items	infarct with hemorrhagic transformation
(14)	that we look at	^[4] Infarct with hemotrinagic transformation.
[10]	We do the CT scan as I mentioned to	(5) Q. And even looking at this case after ward in
[10]	distinguish between inferct and hemorrhage There may	is removed to the first able to ten me where this
[17]	be instances where subsequently exteriography is done	17] embolism came nom, true?
[18]	There are two general fashions in which that's	18] A: Correct, Sir.
[19]	nere are two general fashions in which that's	[19] Q: what is your reason for concluding that it was
[20]	performed. One is caned MRA and the other is a	20] an embolus as opposed to a thrombus?
[21]	so-called traditional arteriogram, and that's done,	A: The relative suddenness of the neurologic onset
[22]	nowever, in a variety of ways and may be done in	22] abnormality together with the nature of the first CI
[23]	certain circumstances, particularly if we hear a noise	23] scan.
[24]	in the neck or there is a change in the intracranial	^{24]} MR. MOSCARINO: Can you repeat
[25]	digital subtraction, et cetera.	25] that answer for me?
	Page 22	Page 24
[1]	So there are a whole variety of things that we do	[1] MR. MISHKIND: Your question was
[2]	in an attempt to find out the mechanism and also the	[2] why he's saying it's an embolus as opposed
[3]	possible source, and in a fair number of instances,	[3] to a thrombus?
[4]	probably a third or more, we do not find the actual	[4] MR. MOSCARINO: Right, that's what
[5]	source and sometimes not the mechanism of the clot	[5] I asked him.
[6]	embolus formation.	[6] MR. MISHKIND: Just wanted to make
[7]	Q: You gave me a pretty long answer there on the	sure that's what you meant to ask him.
[8]	variety and types of tests that you as a neurologist	A: Excuse me. I didn't hear the word "thrombus" in
[9]	perform to try and find both the mechanism and the	^[9] the question.
[10]	source of the stroke, right?	MR. MISHKIND: That's why I raised
[11]	A: Yes, sir.	1) it because I know what you're asking him
[12]	Q: In your report you state on page two, the first	2) but I think you are not stating it properly
[13]	paragraph there, "She underwent multiple tests	a) to get the answer that I think you want
[14]	following the stroke to determine the etiology of	4) from him I'm not going to touch it any
[15]	same." correct?	5 further I'm just going to leave it at
[16]	A: Yes, sir.	er that
[17]	O: Your next sentence says, "According to Dr.	$\pi = 0$. Do you want to add something to that answer
[18]	Lerner, a definitive explanation for Ms. Doll's stroke	Doctor after that discourse by Mr Mishkind?
[19]	could not be determined." correct?	a A. No sir
(20)	A: Correct.	α O: Just to break it down so pobody's confused you
[21]	O: And your source for that statement is what?	the believe that there was an embolus here that traveled
(22)	A: His deposition.	2) from some undetermined unknown site to Mrs Doll's
[23]	O: What do you mean by the term "definitive	a) brain correct?
[24]	explanation"?	4) A: Yes sir.
[25]	A: The word "definitive" means highly likely high	G: And you believe that that embolus, although we
1		· · · · · · · · · · · · · · · · · · ·

Sec. 1

Page 25	Page 27
don't know where it came from , lodged somewhere in the	[1] stroke?
blood vessels or undetermined blood vessels of the	[2] A: Yes, sir.
₁₃₁ brain, right?	[3] Q : Are there such things as venous strokes?
A: Yes, sir. Middle cerebral artery territory on	[4] A: Yes, sir.
151 the left.	[5] Q: Is it your opinion that this was not a venous
Q : When you say "middle cerebral artery territory,"	6 stroke?
$\frac{1}{71}$ that's the same thing as you told me before, general	71 A: Yes. sir
(B) distribution of the middle cerebral artery?	\mathbf{Q} : And your reasons for saving that are what?
g A: Yes, sir.	\square A : The venous stroke has a different distribution
Q : Is it your opinion that it actually lodged in	of in the vacular system and it also has a different
in the middle cerebral artery?	in the vascular system and it also has a different
A: Probably. High probability. 90/10.	2 pattern of abnormality
0° And your reason for saving that is what?	Ω : When you talk about the CT scans in answer to my
A: The extent of the damage to the brain	4) last few questions regarding venous strokes and this
(i) anatomically.	t being in the middle carebral artery are you speaking
0 Is there a test that you looked at in the form	s) of the first CT scan done on 11/16?
μ_{7} of some type of scan that lets you as a neurologist	π A: And subsequent CT scens
(19) look back in time and say. "There it is in the middle	η And subsequent C1 scans. η And why is it that you can't tell us where this
us cerebral artery." or is that your conclusion based on	embolus came from
the reasons that you just told me?	a A: Simply because I don't know sir
\mathbf{A} : It is my conclusion based on the physical signs	Ω Ω : Why do you conclude that the carotid artery had
⁽²⁾ or neurologic abnormalities coupled with the first CT	a focal partowing
¹²³¹ and subsequent CT scans.	a A Because of what I saw later on in the films in
0: Are there strokes that are caused by a thrombus	4) the MRA
[25] as opposed to an embolus?	Ω Ω What tests were performed during the
Page 26	Page 28
[1] A: Yes, sir. Recall, if you will, that most emboli	1) hospitalizations that give any insight regarding the
[2] are made up of thrombus.	2] status of the carotid artery?
[3] Q: And excuse my lack of knowledge of medicine, but	3] A: Doppler examination.
[4] are there strokes that are caused by formation of clot	[4] Q: And what was the result of that test?
[5] in the actual artery or vein where the stroke happens	^[5] A: It was said to be normal.
[6] as opposed to having that piece of blood clot, emboli	[6] Q: Is the Doppler test something that's done by
[7] or whatever travel from a more distal location?	[7] sound?
[8] A: Yes, sir.	[8] A: Yes, sir, ultrasound.
[9] Q: And my original question here was, what is your	[9] Q: Were there films then taken of the carotid
(10) reason for saying that this was a stroke of what fill	10] artery?
(ii) call embolic cause as opposed to a clot that was	A: There is a type of film which is ordinarily
(12) caused by a thrombus in that vessel?	12] made, yes, sir.
(13) A: I repeat, Number one, the sevenity and	[13] Q: Does that film give insight as to the status of
(4) Suddenness of onset of the neurologic abnormanity.	^[4] the carotid artery, whether it's open or whether it's
is Number two, the nature of the changes in the C1 scans,	15] stenosed?
$[17] \qquad O: And ence : Coelley what nature what shows as 2$	[6] A: Yes, sir.
Q: And specifically what nature, what changes?	Q: Did you review that film?
[18] A. This was a picture in the CT scall that, by	$[18] \mathbf{A: No, sir.}$
(19) autopsy study in other patients down through the	[19] Q: And which film was it that led you to conclude
wy years, is characteristic of all infarct which has	²⁰ that there was a tocal narrowing of the carotid
(a) indic they islands of 01000 in it, which we refer to	1] artery, the MRL or MRA?
as nemormagic transformation, and in experimental animal work as well as in autoney in humans that is	
24 characteristic of an embolus	$\begin{array}{c} r_{3} \\ \downarrow \\ $
- y characteristic of all enformes.	$["4] \neg, i \in S, Sii.$

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	Page 2	
[1]	conclusion?	
[2]	A: There is some narrowing of the pattern in the	
[3]	internal carotid artery. This was in 1996, however.	
[4]	Q: And it's your opinion that that Same narrowing	
[5]	was, therefore, present two years before?	
[6]	A: It's possible, sir. I think it's more likely	
[7]	than not, in other words, 75/25.	
[8]	Q: Okay, In response to that question, you used	
[9]	the word "possible." Then you used the term "75."	
[10]	A: Yes, sir.	
[11]	Q: Is it your opinion that it's more likely than	
[12]	not that Mrs. Doll had a focal narrowing of the	
[13]	carotid artery back in 1994 when she had the stroke?	
[14]	A: Yes, sir.	
[15]	Q: And the reason for your opinion is what you just	
[16]	told me about with respect to the MRA?	
[17]	A: Yes, sir.	
[18]	Q: Is it your opinion that Mrs. Doll was in a	
[19]	hypercoagulable state at the time of the stroke?	
[20]	A: Yes, sir.	
[21]	Q: What's your basis for that conclusion?	
[22]	A: The existence of the D-Dimer; the altered	2]
[23]	profile, for instance, of the white blood count, with	•
[24]	so many blood cells; slightly low fibrinogen, and this	
[25]	is a DIC kind of stroke, disseminated intravascular	
	Page 30	
[1]	coagulation.	
[2]	Q: Is it your opinion she suffered from DIC?	
[3]	A: A distant form of it, yes.	
[4]	Q: What do you mean by that?	
[5]	A: DIC has a number of subdivisions or split-offs,	
[6]	like some other disorders, and I think she had an	
[7]	element of DIC present, not flagrant or full-blown	A: Yes, sir.
[8]	DIC.	[8] Q: How many?
[9]	Q: What are the tests that are normally done to	ទ្រ A: I don't know.
[10]	confirm the presence of DIC?	[10] Q: Not trying to split hairs, but when you do a
[11]	A: Well, D-Dimer is one of the principal ones -	[11] blood culture, does that mean, when she had one
[12]	Q: What else?	[12] positive, that there was more than one culture
[13]	A: - that's been done in the last few years. We	[13] positive? Did they do those in sets or should that
[14]	look at antithrombin-C. We look at S. We look at	[14] sentence read "A blood culture was positive"?
[15]	platiet aggregability. Those are other tests that are	[15] A: A blood culture was positive.
[16]	done.	[16] Q: Do you know what the opinion was of the
[17]	Q: Were those other tests in addition to the	[17] infectious disease consultants at St. Luke's with
[18]	D-Dimer performed in this case?	[18] respect to the significance?
[19]	A: I don't think so. I don't think so. C, S and	[19] A: I don't remember.
[20]	antithrombin-3 were done. I may be wrong about that,	[20] Q: What is the incidence of contaminant with
[21]	sir. I don't remember seeing them.	[21] respect to strep viridans and positive blood cultures?
[22]	MH. MISHKIND: If you want, he can	[22] A: I don't know.
[23]	look through the record and confirm that.	[23] Q: Have you cared for a women in the postpartum
[24]	MR. MOSCARINO: If you want to,	[24] period who has suffered a stroke?
[25]	you can. If not, it's line with me.	[[25] A: Yes, Sif.

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	Tage sc		Page 35
[1]	Q: How many?	[1	A. NO, SIL
[2]	A: Probably ten in the last 45 years. Ischenic	[2	Q: Have you read his report in the case?
p	stroke. I have cared for 40 or 50 with bleeding.	[3	$\mathbf{A} = \mathbf{N} \mathbf{O} \cdot \mathbf{S} \mathbf{I} \cdot \mathbf{O} \cdot \mathbf{I} \mathbf{I} \mathbf{O} \cdot \mathbf{I} \mathbf{I} \mathbf{I} \mathbf{O} \cdot \mathbf{I} \mathbf{I} \mathbf{I} \mathbf{O} \mathbf{I} \mathbf{I} \mathbf{O} \mathbf{I} \mathbf{I} \mathbf{O} \mathbf{I} \mathbf{I} \mathbf{O} \mathbf{O} \mathbf{I} \mathbf{O} \mathbf{I} \mathbf{O} \mathbf{O} \mathbf{I} \mathbf{O} \mathbf{O} \mathbf{I} \mathbf{O} \mathbf{O} \mathbf{I} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{I} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} O$
[4]	Q: So total 50 to 60 women who have suffered	[4	Q: He says in his report and he told us yesterday
[5]	strokes in the post partum period in your career?	[5	that there are several possible causes of Mrs. Doll's
[6]	A: Yes, sir.	[6	stroke, one of which is her post partum state. Do you
[7]	Q : Have you cared for individuals who have suffered	[7	agree with that?
[8]	strokes subsequent to a retained foreign body in the	[8]	A: Well, I have tried to straightforwardly define
[9]	abdomen?	[9]	what I mean by post partum state, and I'm not sure
[10]	A: Yes, sir.	[10]	what Dr. Margulies means by that same phrase. I think
[11]	Q: How many?	[11]	her post partum state was caused by the presence of
[12]	A: One.	[12]	the foreign body, post partum state referring to her
[13]	Q: Can you tell me about that case?	[13]	medical condition during the time between, let's say,
[14]	A: That was a man who was injured in a lumber mill	[14]	the 2nd and 3rd and the 15th.
[15]	accident in 1958 and had a piece of wood driven into	[15]	Q: Well, these 50 to 60 patients that you have
[16]	his abdomen and that was not removed and healed. Then	[16]	treated that have suffered strokes in the postpartum
[17]	they got into trouble with his intestine and	17]	period, have you been able to determine a mechanism or
[18]	infection, had to, of course, have an operation, and	18]	etiology or cause of all of those strokes?
[19]	in the course of these events, had a stroke.	19]	A: Not all of them, but most of them, yes.
[20]	Q: Was that an embolic or thrombic event?	[20]	Q: And when you determined the cause of those
[21]	A: It appeared to us to be embolic secondary to	[21]	strokes, is one of the causative mechanisms the fact
[22]	thrombus formation.	1221	that they are in this post partum period, or do you
[23]	Q: Did you identify the site of the thrombus	[23]	just conclude that that's coincide?
[24]	formation in that case?	241	A: In some instances, both. For instance, several
[25]	A: We were uncertain about it.	[25]	of the patients have had auricular fibrillation, and
	D	(
643	Page 34		Page 36
[1] [2]	causative role in the stroke that she suffered	[1]	this was years ago when we weren't paying quite as
[2]	subsequent to the removal of the laperotomy pad?	[2]	much attention to auricular fibrillation as we are
[3]	A: I need further definition of the phrase "post	[3]	now. Only one of those good many patients had the
[4]	A. Theed further definition of the phrase post	[4]	stroke following a cesarean section, which is another
[5]	Or The fact that she was two weeks rest delivery	[5]	category.
[6]	Q. The fact that she was two weeks post-derivery,	[6]	Q: Have you done research on the issue of strokes
[7]	and that in and of itself pray a causal role in the	[7]	in the postpartum state?
[8]	stroke that she suffered post-surgery?	[8]	A: No, sir.
[9]	A: To me, that is a matter of relativity. Her	[9]	Q: Are you familiar with the medical literature on
[10]	course from the 6th until the 15th, except for the day	[10]	the subject?
[11]	of the 14th, was associated with general malaise, that	[11]	A: Somewhat familiar with it, sir.
[12]	is, reening pretty lousy, with some nausea, abdominal	[12]	Q: What articles would I look to to review this
[13]	discomfort. In other words, she wasn't wen at all.	[13]	issue, what journals?
[14]	Then on the 14th there she had a good day and on	[14]	MR. MISHKIND: Let me show an
[15]	the 15th she had a return and exacerbation of the	[15]	objection to the question.
[16]	symptoms that she had been having between the 6th and	61	But you can go ahead and answer it.
[17]	the 14th. All of these things indicated that there	[7]	A: The textbook by Henry Barnett from Toronto has
[18]	was something significantly wrong with her, and she	[8]	material about post partum state. Jim Toole's
[19]	then appeared at St. Luke's Hospital and the diagnosis	[19]	textbook has material about post partum state. My
[20]	ot a toreign body was made and the operation was	[20]	textbook has a little material about the post partum
[21]	performed.	[21]	state. I forgot the name of my friend in England
22]	So there was an abnormal post partum state	[2]	whose book has material about the post parture state
23]	existing with the exception of one day between the 6th	[23]	and the occurrence of stroke.
24] 8	and the 15th.	^{[2} 4]	Q: How about, are there any icaunig provide
25]	Q: Do you know a Dr. Sneldon Margulies?	[25]	articles on this topic.

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Min-U-Script®

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[1] MR. MISHKIND: Objection.	[1] NIH study section. We have worked on the nomenclature
[2] Go ahead.	[2] committee of stroke which I chaired and I've just seen
[3] A: There was an article in the New England Journal	[3] a great deal of him in stroke meetings and one thing
[4] last year about post partum state stroke.	[4] or another in the last 25 years.
Q: When I questioned Dr. Margulies on this topic	0: I see. Is he a recognized or respected
⁶¹ vesterday, he directed me to the Kittner article in	^[6] neurologist within the subspecialty of stroke?
⁷⁷¹ the New England Journal of Medicine.	MR. MISHKIND: Objection.
A: That was in September 1996.	A: Yes. sir.
Ω O: Is that the article you're referring to?	THE WITNESS' Excuse me
$\begin{array}{c} \text{(6)} \textbf{A}: \text{ Yes sir} \end{array}$	MR MISHKIND: That's okay You
Ω : He also mentioned some other article that	the can still answer the question even though
(12) concerns some type of similar study by a group of	a my objection is stated
(12) concerns some type of similar study by a group of	2) my objection is stated. O: You respect his opinion on metters concerning
$\Delta \cdot V_{PS}$	3 Q. Tou respect his opinion on matters concerning
Ω Ω What is the name of that article?	4) SHOKE?
[15] Q. what is the name of that afficie?	5 MR. MISHKIND: Objection.
[16] A. I doll tknow.	\mathbf{a} (6) \mathbf{A} : Yes.
[17] Q. Did you review the Kitther article at an in	7] Q: Do you know if he was involved at all in the
[18] preparation for your deposition today?	8] work that is summarized in the Kittner article?
[19] A: Not in preparation for the deposition, but I	g A: I think he was mentioned but not listed as an
[20] have seen it.	ion author. I think he was by-lined or something. I'm
[21] Q: Did you conduct any medical research as part of	sorry. It's been a long time since I've seen that,
[22] your engagement by Mr. Mishkind in this case?	2] but I believe his name was - but I don't believe he
[23] A: No, sir.	(3) was a co-author.
[24] Q: What was the source of your statistics when I	^{14]} Q: What do you have to do to be a co-author on one
[25] asked you at the beginning of the deposition of the	15] of these journal articles like appear in the New
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increased risk of stroke in the post partum period?	u England Journal of Medicine and other peer-reviewed
Δ The Kittner article	m journals?
Ω O: Is the Kittner article the leading article on	A: Take some part in the accumulation of the date
(0) Q. is the relation interest the relating interest on (0) with the discussion of the incidence of stroke in post	(3) A. Take some part in the accumulation of the data.
[4] the discussion of the merdence of stroke in post	[4] Q. Did you say you read the deposition of George
MR MISHKIND: Objection	[5] Doll, Wils. Doll Shusbalid?
[6] Mitt Mishiki D. Objection.	
[/] A. I doll tkilow.	7] Q: Do you agree that a woman can have a stroke for
[8] Q. Do you note yoursen out as an expert in the	⁸] no other reason than being in the post partum state
[a] incluence of stroke in post partum women?	9] and the related changes that occur to a woman's body
[10] A: Only in my experience.	oj in that time period?
[11] Q: Do you know any of the other experts who have	1] IHE WIINESS: Would you read that
[12] been identified in this lawsuit?	2] question back?
[13] A: Yes.	য় (Record read.)
[14] Q: Which ones do you know, or which one?	4] MR. MISHKIND: Let me just show an
[15] A: I know Dr. Wechsler just a bit and I know Dr.	5] objection before the doctor answers just to
[16] Price very, very well.	s the question as put in terms of "Can," but
[17] Q: How about Dr. Riggs? Do you know him?	7 certainly the doctor can answer the
[18] A: No.	8] question.
[19] Q: How do you know Dr.Wechsler a bit?	9] A: No, I don't agree.
[20] A: Via contacts in neurology and at stroke meetings	oj Q: And the reason that you disagree with that
[21] and at the American Academy of Neurologyand American	1] statement is what?
[22] Neurologic Association.	2) A: The matter of, most of the patients who have
[23] Q: And how do you know Dr. Thomas Price?	3) been studied carefully at our place, we find a cause
[24] A: I know him through work in stroke going back 30	4) other than the bearing of a child, causes, for
[25] years and we have served on committees together, on	51 instance, such as atrial fibrillation, cardiac

	Page 41		Page 43
[1]	myopathy, lesions in the carotid artery, dissection,	[1] questions about the nature of that	
[2]	lupus, erythematosis, some kind of a mechanism other	2] extensive damage and the significance of	
[3]	than, quote, "post partum period, "close quote.	(3) that, that's the purpose of that sentence.	
[4]	Q: And were there patients, in your experience, who	[4] MR. MOSCARINO: Yes, I hear that.	
[5]	suffered strokes in the post partum period where you	[5] As the lawyer for the hospital, I just want	
[6]	were not able to find a definitive explanation?	6) the record to be clear that he has gone	
[7]	A: Yes, sir.	[7] through a two-page explanation of whatever	
[8]	Q: And what, then, was your conclusion with respect	[8] his opinions are regarding the etiology of	
[9]	to those patients who suffered those strokes of	(9) the stroke. I don't know that that one	
[10]	undetermined origin in the post partum state?	a line is good enough but -	
[11]	A: Exactly the same as it is in the stroke	1] MR. MISHKIND: Well, let me just	
[12]	population in general. Where in some 30 percent we	2] state to you that the case law is very	
[13]	find no literal mechanism for the stroke, we simply	3] clear that a report doesn't have to outline	
[14]	have to answer that we do not know.	the entire substance of an expert's opinion	
[15]	Q : And in those cases, if those patients were in	is as long as it identifies the subject	
[16]	the post partum state, you would not tell those	for matters, and one of the subject matters is	
[17]	patients that one of the reasons or a reason for their	¹⁷ the nature of the damage. We can deal with	
[18]	stroke was the fact that they were post partum?	18] that.	
[19]	A: Correct. The inquiry, in my experience, has	MR. FARCHIONE: To cut to the	
[20]	come up on a number of occasions should they have	²⁰ chase from my standpoint, you've got Layton	
[21]	another child, and several of them have gone on to	21] coming in, Nemunaitis, Lerner, Lystad, all	
[22]	have another child and had no more trouble and we	^{22]} coming in treating individuals, to talk	
[23]	never found out what the mechanism was for the stroke.	²³] about damages. Is he going to be getting	
[24]	Q : Are there any studies on that issue, that being	²⁴ into the specifics of her current condition	
[25]	the risk of second stroke for a woman who has suffered	²⁵ and that or are you talking just in general	
	Page 42		Page 44
	one stroke in the post partum pariod?	w based on the films there is demose to this	I ugo I I
[1]	A: I don't romember any	[1] based on the mins there is damage to this	
[2]	A. I don't temember any.	[2] area and that can lead to those types of	
[3]	Q. You are not going to be giving optimons at the	(3) things, then the other people come in and	
[4]	of are as it relates to aither the heapital personnal	[4] talk about the specifics of her damage?	
[5]	or the OP/CVN on Lright?	Isi WIR. WISHKIND: Generally your	
[6]	A: Correct sir	[6] statement is accurate.	
[7]	A: Correct, su.	[7] WR, FARCHIONE: I hat swhat I	
[8]	Q: Are you or have you been asked to express any	[8] Wanted to know.	
[9]	Dell'a initiation from the extent of permanency of Mrs.	[9] WIR. MISHKIND: He s not going to	
[10]	Doll sinjuries from the stroke?	10] be testifying from a clinical standpoint	
[11]	A: 105, SIF.	11] how she is doing. He will testify based	
[12]	Q: Is that contained in your report?	12] upon the pathology, what significance that	
[13]	A: Yes, sir.	13) is as demonstrated, and he has had a chance	
[14]	Q: where is that contained?	14] to review some of the reports.	
[15]	A. MS, Don has suffered extensive damage to her	15] So if you want to ask nim questions,	
[16]	brain as demonstrated by the studies which you	16] I don't think it's going to take that long	
[17]	submitted to me."	17] for him to tell you the extent of what he	
[18]	Q. And are you going to be giving opinions other	18] 1s comfortable testifiring to and to the	
[19]	than that sentence, that she has extensive damage to	19] extent he's not comfortable testifying.	
[20]		20] Q: Have you examined Mrs Doll?	
[21]	WH, WISHKIND: Let me object.	$\begin{array}{c} \text{21} \textbf{A: INO, SI'.} \\ \text{Or Here even even the } \mathbf{a}^2 \end{array}$	
[22]	I in going to ask nim questions for him to	22] Q: Have you met ner?	
[23]	explain the substance of that. He shot	23] A: NO, SIF.	
[24]	going to be infinited to just saying that	[-srecovery is from the stroke that was suffered in	
25	sentence, and if you want to ask min		

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Min-U-Script®

	Page 45	Page 47
[1]	November of 1994?	[1] receive a promotion?
[2]	A: I am familiar to the extent of reviewing the	[2] A: No, sir.
[3]	testing done and reading the deposition of her husband	[3] Q: Do you have any opinions that she shouldn't be
[4]	and those things contained in the description of her	[4] rearing children?
[5]	behavior, her work situation, et cetera.	[5] A: No, sir.
[6]	Q: Will you agree with me that she has made a	[6] Q: Do you know that she can balance her checkbook?
[7]	tremendous recovery?	[7] A: I've been told that.
[8]	A: She has made a remarkable recovery, yes, sir.	[8] Q: Does that surprise you?
[9]	Q: I take it you're not going to be giving any	[9] A: Yes, sir.
[10]	opinions regarding her future course of events or	[10] Q: Why?
[11]	prognosis?	A: Because of the nature of the brain lesions as
[12]	A: I have an opinion, yes.	^[12] displayed in the CT and MRI examinations.
(13)	MR. MOSCARINO: And that one of	13 O: Specifically what?
[14]	the opinions you're going to be eliciting	A: The evidence of brain damage, focal brain
[15]	from him?	damage. It is possible that she has ability on the
£161	MR. MISHKIND: Yes.	16 non-dominant side because there are some people who
1171	MR. MOSCARINO: Well, I object to	in do, and that may be an explanation for her ability to
(18)	that	work with the checkbook
[10]	0: But since we are in a discovery deposition so	Now I don't know whether that ability is
[20]	ahead and tell me what that is	predicated on simply using a computer to add
[24]	MB FARCHIONE: I will enter an	by subtract et cetera or whether she can literally do
12-11	objection also	withose things like we do them as normal people. I
[23]	A: My opinion is that she has permanent lifelong	²² don't know the answer to that because I haven't seen
[20]	brain damage and that she will not return to normal	ber Lhaven't avamined her
[24] [25]	Ω : Are you going to be giving any opinion as to	[24] net. I haven t examined her.
[20]	Q. Are you going to be giving any opinion as to	
	Page 46	Page 48
[1]	whether she is going to continue to improve?	[1] A: Calculator.
[2]	A: Yes, sir.	[2] Q: As a neurologist, do you look at these scans and
[3]	Q: What is your opinion on that?	^[3] then make predictions as to future prognosis based
[4]	MR. MOSCARINO: Same objection,	[4] upon the, quote, unquote, "Damageto the brain" that
[5]	but I'mhere for his discovery deposition.	[5] you see on the film?
[6]	A: We are now three years out, and, for instance,	[6] A: I inter-relate what I see in the film with the
[7]	her homonymous hemianopsia, her visual defect, will	[7] examination of the patient. The examination of the
[8]	not improve. Her aphasia at this point in time will,	[8] patient is the number one issue in all of this kind of
[9]	in general, not improve.	[9] work. Number two has to do with the films. As I just
[10]	Q: What is aphasia?	10] mentioned, there are some individuals who have some
[11]	A: Aphasia is a defect in language reception and	11] cross-over, what we call dominant lobe phenomenon into
[12]	language production produced by a focal brain lesion.	12] the other side, and that can't be determined by the CT
[13]	Q: Are you aware of the fact that she is back at	13] or MRI. The actual ability must be determined by
[14]	the same job that she had before?	14] testing the patient.
[15]	A: Yes, sir.	Q: And do some patients just simply do better than
[16]	Q: Are you aware of the fact that she has received	16] you, as a neurologist, predict they would do given
[17]	at least, I believe, two pay increases and positive	17] your review of the scans and even your examination?
[18]	job reviews?	18] A: Yes, sir.
[19]	A: Yes, sir.	Q: You're not ruling out that Mrs. Doll will not
[20]	Q: Are you surprised by that?	20] continue to improve with respect to her job
[21]	A: No, sir.	21) performance and her aphasia -
[22]	Q: Do you have any reason to doubt that she will	MR. MISHKIND: Objection.
[23]	continue to perform in her job?	Q: - as the years go on?
241	-	
	A: No, sir.	24] MR. MISHKIND: Objection.
[25]	A: No, sir.Q: Do you have any reason to doubt that she may not	24] MR. MISHKIND: Objection. 25] Go ahead.

No. Contraction

Doll, et al vs. University Hospitals of Cleveland, et al., No. 297828

Deposition of Clark H. Millikan, M.D. November 6,1997

		1	
	Page 49		Page 51
[1]	A: I'm not ruling it out. I think the odds are	1	though the tests performed did not produce evidence of
[2] 95	5/5 that she has reached her summit of improvement as	[2]	same." Am I right?
[3] fa	r as formal testing is concerned which identifies	[3]	A: Yes , sir.
[4] th	e severity of the cognitive defect.	[4]	Q: What tests are you talking about?
[5]	Q: Given what you told me about the importance of	15	A: I believe there is an examination by a vascular
[6] th	e examination, do you feel that you need to actually	[6]	surgeon who found no evidence of that trouble.
[7] ex	amine her and confer with her and make a personal	171	Q: Was it your opinion that there was an embolus
[8] ju	dgment on her before issuing opinions regarding her	[8]	from the pelvic area?
[9] ex	ttent of injuries and future prognosis?	101	A: I don't know, sir. It's possible.
[10]	MR. MISHKIND: Objection.	[10]	O: Is that an opinion you hold to a reasonable
[11]	A: I feel comfortable with the quality of the	111	degree of medical probability?
[12] re	ports that I have read and the films, but	[112]	A: Yes. sir.
[13] pa	rticularly with the quality of the	[13]	MR. MISHKIND: That it's possible?
[14] ne	uropsychological testing and the testing for	[14]	A: That it's possible.
[15] ap	hasia.	[15]	O: No. Do you believe to a reasonable degree of
[16]	Q : So the answer is, no, you don't think you need	[16]	medical probability that Mrs. Doll had an embolic
[17] to	examine her?	[17]	event from the pelvic region or are you just stating
[18]	A: Right.	1181	that as a possibility?
(19]	MR. MOSCARINO: I need to take a	[19]	A: I'm stating it as a possibility, sir.
[20] tw	vo-minute break.	[20]	O: So that the record is clear, when we go to trial
[21]	MR. MISHKIND: That's fine.	[21]	in this case, you will not be testifying to a
[22]	(Recess taken.)	[22]	reasonable degree of medical probability that Mrs.
[23]	Q: To what degree was the carotid artery narrowed?	[23]	Doll had an embolic event from the pelvic region?
[24]	A: To what degree?	[24]	A: Correct, sir.
[25]	Q: Yes, sir.	[25]	Q: Is your delineation of possibility and
	Page 50		Page 52
[1]	A: 20 percent.	(11	probability the same when it comes to the comment that
[2]	O: And how did you come to that conclusion?	121	you have in that same paragraph regarding the carotid
[3]	A: By looking at it.	(3)	artery?
[4]	O: Just by visualization?	(4)	A: No. sir.
(5)	A: Yes.	- 1-3 	O: Tell me why it's different.
 (61	O: Is there any kind of test that somebody performs	.c1	A: In the instance of the abnormality in the
[7] th	at gives you that calculation?	נס, רכי	pelvis the pathway is to the heart and then through a
[8]	A: No, sir.		patent foramen ovale and that's the right side of the
191	O: So it was 20 percent in 1986?	.01	heart and than into the left side of the heart and
[10]		Q1	
	A: '96, sir.	9] 01	thence to the cerebral circulation
(11)	A: '96, sir. Q: '96. I'm sorry.	9] 0]	thence to the cerebral circulation.
(11) [12] W]	A: '96, sir. Q: '96. I'm sorry. hat was your opinion, then, as to what it was	9] 0] 1] 21	thence to the cerebral circulation. On TEE there was no demonstration of a patent foramen oyale. However, the foramen oyale may not
[11] [12] W] [13] in	A: '96, sir. Q: '96. I'm sorry. hat was your opinion, then, as to what it was 1994?	9] 0] 1] 2] 3]	thence to the cerebral circulation. On TEE there was no demonstration of a patent foramen ovale. However, the foramen ovale may not have opened up at the time of the TEE. This lack of
(11] [12] W] [13] in [14]	 A: '96, sir. Q: '96. I'm sorry. hat was your opinion, then, as to what it was 1994? A: Probably similar, More than about 75 percent 	9] 0] 1] 2] 3] 4]	thence to the cerebral circulation. On TEE there was no demonstration of a patent foramen ovale. However, the foramen ovale may not have opened up at the time of the TEE. This lack of opening of the foramen ovale has been
(11) (12) W] (13) in (14) (15) lik	 A: '96, sir. Q: '96. I'm sorry. hat was your opinion, then, as to what it was 1994? A: Probably similar, More than about 75 percent elihood. 	9] 0] 1] 2] 3] 4]	thence to the cerebral circulation. On TEE there was no demonstration of a patent foramen ovale. However, the foramen ovale may not have opened up at the time of the TEE. This lack of opening of the foramen ovale has been well-demonstrated in people who ultimately proved to
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 [11] [12] W] [13] in [14] [15] lik [15] lik [16] [17] pe [18] [19] [20] reg 	 A: '96, sir. Q: '96. I'm sorry. hat was your opinion, then, as to what it was 1994? A: Probably similar, More than about 75 percent elihood. Q: About 75 percent likelihood that it was 20 rcent in '94? A: Yes, sir. Q: You talk about an embolic event from the pelvic gion on page two of your report. 	9] 0] 1] 2] 3] 4] 5] 6] 7] 8] 9] 20]	thence to the cerebral circulation. On TEE there was no demonstration of a patent foramen ovale. However, the foramen ovale may not have opened up at the time of the TEE. This lack of opening of the foramen ovale has been well-demonstrated in people who ultimately proved to have such a defect. In contrast, the sources of emboli to the brain are much more likely to be intracardiac or carotid system than from a pelvic lesion where there is no demonstrable way for the emboli to cross from right
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 [11] [12] W] [13] in [14] [15] lik [15] lik [16] [17] pe [18] [19] [20] reg [21] [22] [23] pe: 	 A: '96, sir. Q: '96. I'm sorry. hat was your opinion, then, as to what it was 1994? A: Probably similar, More than about 75 percent elihood. Q: About 75 percent likelihood that it was 20 rcent in '94? A: Yes, sir. Q: You talk about an embolic event from the pelvic gion on page two of your report. A: Yes, sir. Q: You go on to state, "Even though the tests rformed did not produce evidence of same." 	9] 0] 1] 2] 3] 4] 5] 6] 7] 8] 9] 20] 21] 22] 23]	thence to the cerebral circulation. On TEE there was no demonstration of a patent foramen ovale. However, the foramen ovale may not have opened up at the time of the TEE. This lack of opening of the foramen ovale has been well-demonstrated in people who ultimately proved to have such a defect. In contrast, the sources of emboli to the brain are much more likely to be intracardiac or carotid system than from a pelvic lesion where there is no demonstrable way for the emboli to cross from right heart to left heart. Q: Dr. Margulies told us yesterday, in view of the TEE test result, it was impossible for a pelvic
 [11] [12] W] [13] in [14] [15] lik [16] [17] pe [18] [19] [20] reş [21] [22] [22] [23] pe: [24] 	 A: '96, sir. Q: '96. I'm sorry. hat was your opinion, then, as to what it was 1994? A: Probably similar, More than about 75 percent elihood. Q: About 75 percent likelihood that it was 20 rcent in '94? A: Yes, sir. Q: You talk about an embolic event from the pelvic gion on page two of your report. A: Yes, sir. Q: You go on to state, "Even though the tests rformed did not produce evidence of same." A: Sir? 	9] 0] 1] 2] 3] 4] 5] 6] 7] 8] 9] 20] 21] 22] 23] 24]	thence to the cerebral circulation. On TEE there was no demonstration of a patent foramen ovale. However, the foramen ovale may not have opened up at the time of the TEE. This lack of opening of the foramen ovale has been well-demonstrated in people who ultimately proved to have such a defect. In contrast, the sources of emboli to the brain are much more likely to be intracardiac or carotid system than from a pelvic lesion where there is no demonstrable way for the emboli to cross from right heart to left heart. Q: Dr. Margulies told us yesterday, in view of the TEE test result, it was impossible for a pelvic embolus to travel to Mrs. Doll's brain. Do you agree

_			
	Page 53	3	Page 55
11	A: I do not agree that the TEE absolutely rules out		(1) regarding this case that you have to be provided
[2	a possible cross-over.		(2) with?
(3	Q: Mrs. Doll's treating physicians back in 1994		[3] A: No, sir.
[4	ruled this cause out, correct?		[4] Q: Have you read Dr. Pro-
[5	A: I understand. Yes, sir, correct.		$\mathbf{A} \cdot \mathbf{Y} \mathbf{e} \mathbf{s} \mathbf{i} \mathbf{r}$
[6]	Q: Basically you're agreeing with them?		161 Q: Do you disagree with the re it you have any
[7]	A: I do not agree that a negative TEE absolutely		Comments regarding it?
[8]	rules out the possibility of a patency between the two		A: I disagree with the opport puterning the cause
[9]	sides of the heart.		of has stroke
[10]	0: You agree -		$\mathbf{O} = \mathbf{O} \mathbf{I} \mathbf{I} \mathbf{I} \mathbf{I} \mathbf{I} \mathbf{I} \mathbf{I} I$
111	A: Although the statistics of that probability are		of G: I take it by your prior as a questions
[12]	less than five percent.	1	1) that you agree with me that the the dumined of
1131	0. Would you agree with me that it's highly	1	2) opine on the issues that are is hand in this case?
[10]	unlikely that in this case an embolus from the pelvic	1	3) A: Yes, sir.
[14]	region traveled through Mrs Doll's heart and caused	1	4] Q: Just as though you would refine. I take it,
[15]	the stroke?	1	5) based on your CV and experience that you are
[10]	A. Vas sir		a qualified to opine on the issues that are at hand in
[17]	$\mathbf{A} \cdot \mathbf{I} \mathbf{e} \mathbf{s}, \mathbf{s} \mathbf{n} \cdot \mathbf{e} \mathbf{s}$		7) this case?
[18]	Q: Now, what about the other explanation that you	4	B] A: Yes, sir.
[19]	pose in this paragraph, that being the carotid artery?	-	9 Q: How commonplace is it that experts in the area
[20]	Do you agree that's also highly unlikely in this case?		이 of a specialty like neurology will differ on the
[21]	A: No, I don't.		1) interpretation of medical records -
[22]	Q: Is it your opinion to a reasonable degree of		²¹ MR. MISHKIND: Objection.
[23]	medical probability that there was a clot that formed		Q: - and things of this nature?
[24]	in the carotid artery that traveled to Mrs. Doll's	6	MR. MISHKIND: Objection.
[25]	brain?	} :	A: In my experience, it's fairly common. Dr. Price
		┢	Page 56
[1]	A: I don'tknow where the clot formed as I have	64	and I have disagreed about nomenclature extensively as
	mentioned I think the most likely site was		and I have disagreed about homenemetric entended of the
[3]	someplace in the carotid circulation, probably	[2 [3	highly.
[4]	internal carotid circulation.	[4	MR. MOSCARINO: I'm going to stop
[5]	Q: Is this speculation on your behalf?	, 15	my questioning at this point in time and
[6]	MR. MISHKIND: Objection.	16	a defer to Mr. Farchione with the reservation
[7]	A: No, it's not speculation, definitely not	17	that I may have some additional questions
[8]	speculation. This is a result of 45 years of	10	Fair enough?
[9]	experience, of study and activity in 'trying to find	10	MP MISHKIND: IIb hub
[10]	out about such cases.	19	
[11]	Ω · Okay. And I'miust trying to uncover your	110	EXAMINATION
[12]	opinions as the lawyer for the hospital.	100	
: (13)	Δ· Yes sir	[12]	O Destor my name is Les Ferchione. I represent
[14]	Q: You have no opinion to a reasonable degree of	[13]	De Constanti de la constante de follor (110 01)
 M51 -	madical probability as to the source of the sector	[14]	Dr. Gyves in this lawsuit. I want to follow up on
[10]]	MP MICHIKIND: Objective to the source of the embories?	[15]	where Mr. Moscarino left off with regard to Di, Thee,
[16] (17) (MR. MISHKIND: ODJection. Asked	[16]	You've indicated that you're read his it point
(*/) 6 (38) 1	But go about and answer a sixth time	[17]	and are familiar with his opinions, correct?
(10) x (10)	A: Vouere correct sir	[18]	A: Yes, sir.
1201	A: Fourie confect, sil. A: By the way before we took this break me had	[19]	Q: Are you here today to rule out 100 percent Dr.
201 211 -	where the talk about your opinions are attended	[20]	Price's opinion or is this just simply a difference of
പുംപും പെ	stance to talk about your opinions regarding the	[21]	opinion between two experts in the area of shoke?
< E</td <td>extensive damage to her brain. Did I receive all your</td> <td>[22]</td> <td>MR. MISHKIND: Objection.</td>	extensive damage to her brain. Did I receive all your	[22]	MR. MISHKIND: Objection.
1231 C	At L believe co	[23]	A: The former.
1241	A. I DEIIEVE SO.	24}	Q: The former?
25)	Q: Have you asked for any additional information	[25]	A: (Nods affirmatively.)

	Page 57	Dage co
EL.	O: How is it that you can rule out Dr. Price's	Page 59 A . No sir
[2]	opinion 100percent?	Ω O: Was there any way that it could have been
[3]	A: I believe that his opinion did not include the	(3) prevented once she was hospitalized for the removal of
[4]	fact that there was a cesarean section, that there was	(a) the sponge?
[5]	a retained foreign body and a series of days during	MR. MISHKIND: Are you talking
[6]	which there was abdominal discomfort with nausea and	is about deferring the surgery?
[7]	marked worsening on the 15th, and that he has not put	MR. FARCHIONE: Any way.
[8]	all of those items into the formulation of his	A: From the time of the hospitalization on the 15th
[9]	statement that the, quote, "Cause of her stroke was	(9) until it happened on the 16th?
[10]	her post partum state," close quote.	0 O: Correct.
[11]	Q : Let me see if I understand what you just said.	A: I don't believe so.sir.
[12]	If I'm wrong, please correct me.	0: At what point between the time of her cesarean
[13]	It's your belief that Dr. Price did not	3] section and the time of the stroke did it become more
[14]	consider the cesarean section, the retained foreign	4) likely than not that she was going to suffer a stroke?
[15]	body, the abdominal discomfort, the increase on the	5] A: I don'tknow, sir.
[16]	15th. He did not evaluate that properly in his	0: Could it have been just as likely within a few
[17]	opinion?	7 hours of the cesarean section as it would be a few
[18]	A: In my opinion, correct, sir.	s hours before the rehospitalization, or you can't tell?
[19]	Q: I guess what I'm getting back to is, assuming	9 A: I don't think so, but I cannot tell.
[20]	Dr. Price had all the records that you had in this	Q: To a probability you could not tell which end of
[21]	particular case, and I understand what your opinion is	11 the spectrum would be more likely?
[22]	and you understand what his opinion is, is this just a	2] A: I think over half. We would say toward the end
[23]	difference of opinion between two experts?	3) of that period of time because of the inflammatory
[24]	MR. MISHKIND: Objection.	4] changes that were taking place around the foreign body
[25]	Go ahead, Doctor.	5) and into the wall of the intestine.
	Page 58	Dage 60
[1]	A: It is certainly a difference of opinion between	Ω D But for the two items that you just mentioned
[2]	two experts. I am trying to identify, in response to	2) would the stroke have been avoided to a probability?
[3]	your inquiry, what I think is the background reason	MR. MISHKIND: I'm not sure I
[4]	for his opinion being so markedly different than mine.	41 understand your question. Joe, the two
[5]	Q: Dr. Lerner's workup of this patient following	51 items being the inflammatory process into
[6]	the stroke, do you have any criticism of that at all?	a the -
m	A: No, sir.	7 MR, FARCHIONE: The bowel.
[8]	Q : Would you consider that to be a complete workup	O: Maybe you're putting those two together. The
[9]	of the situation?	answer that you just gave me, the inflammatory
[10]	A: When we get to the technicalities of such a	or process, what exactly were you referring to?
[11]	workup, one can get into the issue of searching with	A: I'm referring to the fact that there was
12]	modern equipment for embolus detection. I don't think	2] alteration in the white blood count and there was a
13]	that would have added anything to this workup. I	3 change, a bit of change, in fibrinogen and D-Dimer at
14]	don't think that Compound S, Compound C,	4] the time of the operative procedure. There was a
15]	antithrombin-3, frequent determinations would have	5] tissue reaction including adherence of material to the
16]	really added anything. I am not critical of his	6] wall of the intestine so that that material had to be
17]	workup, sir.	7] dissected away, and I believe another surgeon was
18]	Q: And anything additional that could have been	B) called in to look at this and assist a bit with it.
19]	performed, it's your belief that it wouldn't have	9] All of these phenomena indicate a change in what
<u>?</u> 0]	added anything to the conclusions reached by Dr.	of we call the immune response to the introduction, in
<u>[1]</u>	Lerner at the time?	1) this instance, of a foreign body into the patient.
<u>?</u> 2]	A: Correct, sir.	2] Q: Let me ask it to you this way. Maybe that will
:3]	Q: Was there any way to predict when this patient	3) be clearer. If she had the sponge removed 24 hours
4]	was rehospitalized, hospitalized for the removal of	4) after the cesarean section, do you have an opinion to
5]	the sponge, that she would suffer a stroke?	5] a probability whether she would have suffered the

Parts

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	Page 61	Page 63
[1]	stroke?	[1] Q: Women two weeks following a cesarean birth, can
[2]	A: Yes, 1 do.	[2] you tell me what range one would expect for the white
[3]	Q: And what is that opinion?	[3] blood cell count?
[4]	A: She would have been much less likely,	[4] A: No, sir, I can't.
[5]	significantly less likely, to have the stroke.	[5] Q: Can you tell me what the range would be for the
[6]	Q: Does that mean to a probability she would not	[6] hematocrit or hemoglobin in the two weeks following a
[7]	have had the stroke?	[7] cesarean birth?
[8]	A: Yes, sir.	[8] A: No, sir.
[9]	Q: What about 48 hours after the cesarean section?	[9] Q: If a D-Dimer test had been run on a post partum,
[10]	A: Same answer.	10] post-section patient within two weeks of that section,
[11]	Q: 72?	11] can you tell me what range you would expect for that
[12]	A: The inflammation, of course, is now beginning to	12] time of a patient?
[13]	happen as far as the tissue is concerned. I think the	[3] A: I would expect it to be negative.
[14]	answer is still the same. Where in that spectrum it	¹⁴⁾ Q: The two patients that you were involved with 25
[15]	changes, crosses over the line, I'm not sure.	15] years ago, do you recall what their D-Dimer was?
[16]	Q: Well, that's what I want to try and narrow it	A: We didn'thave the test.
[17]	down as to where does it get to the point where you	$_{\text{T}}$ Q: Did you have a test that was similar to that at
[18]	don'tknow. So far you have given me three days after	18] that time?
[19]	the section, if the sponge had been removed, to a	19] A: No.
[20]	probability she would not have suffered the stroke.	^{20]} Q: Were you able to complete 25 years ago any type
[21]	Let'stry day four.	of coagulation study, PT, PTT?
[22]	A: I don't know. From this point in time out I	A: Those were done, yes, sir.
[23]	don't know, sir.	Q: Do you remember what those were?
[24]	Q: I think you mentioned that there were ten	A: The platlet agglutinations were done. Those
[25]	patients you had in the post partum period who had	²⁵] were all normal in those two persons.
	Page 62	Page 64
[1]	suffered a stroke, correct?	[1] Q: How does inflammation affect the clotting?
[2]	A: Correct, sir.	[2] A: Inflammation, particularly when it gets into the
[3]	Q: Of those ten, how many were you able to	[3] wall of the blood vessel and affects the endothelium
[4]	determine a precise cause? And I believe atrial	[4] of the blood vessel, decreases the ability of the
[5]	fibrillation is one of the causes you –	[5] endothelium to form intrinsic TPA, which is
[6]	A: Is I recall, about eight. None of these were	[6] anticlotting, and the inflammation then produces a
[7]	following cesarean section.	^[7] situation where platelets may adhere to the vessel
[8]	Q: Would the rate of stroke in a post partum period	[8] wall, and when the platelets adhere to the vessel
[9]	be higher in a woman who has undergone a cesarean	9 wall, they cast out chemicals which may induce other
[10]	section as opposed to a vaginal delivery?	oj platelets to stick to them without sticking to the
(11)	A: I don't know data on that separately.	1] wall, and aggregation of platelets then begins and
[12]	Q : The two women who suffered the stroke for whom	2] this is the initiation of the clotting process.
[13]	you could not find a cause, what role did you play	3] Now, all of this is a dynamic, highly dynamic,
[14]	specifically with each of those two patients?	41 kind of process. This is going on all of the time,
[15]	A: I was the neurologist involved.	5] but when a vessel gets inflamed, it changes the
[16]	Q: When were you called into the case?	6] likelihood of such things happening.
[17]	A: Immediately.	7] Q: If the source of the embolic stroke, as you've
[18]	Q: Were you involved with the hospitalization from	8] opined in this case, if it was in the carotid, which
[19]	that point forward?	9) was one of the two possibilities you've given earlier,
20]	A: Yes, sir.	of how did the inflammation affect the carotid?
21]	Q: Was it a similar type of stroke to what we have	A: The inflammation can be a reaction, of course,
[22]	in this particular case?	2] that goes on in the blood stream or is induced through
23]	A: Not as severe, sir.	3] the blood.
24]	Q: How long ago was your experience with those two?	4) Q: From the septicemia?
25]	A: This is 25 years ago.	5] A: Through the business of septicemia and the

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Page 65	Page 67
[1] changes in the chemistry of the blood produced by	[1] A: Yes, sir.
[2] infection.	[2] Q: Could that have been spasm of the carotid as
[3] Q: So if this patient was not, in your opinion,	[3] opposed to an actual narrowing?
[4] septic, did not have septicemia, then that would rule	(4) A: It is possible. I don't think it's likely but
[5] out the carotid source?	[5] it's possible.
[6] A: Not necessarily. We have patients who get	Q: Why don't you think it is likely that it was a
[7] inflammatory reactions as in cranial periarteritis and	[7] spasm?
[8] periarteritis nodosa and lupus without inflammatory	[8] A: It was bilateral and it had a contour of a
p reactions in vessels secondary to an infection that is	9 lesion in the wall of the artery rather than a
oj localized elsewhere from the body without literally	10] constriction of the muscles.
1) producing any septicemia.	Q: Did you mention that you reviewed articles for
2] Q: Why did she get better on Monday?	12] the New England Journal of Medicine?
3] A: I don't know, sir.	A: I have, yes.
4] Q: Did you find that unusual, that she was able to	0: Were you asked to review the Kittner article?
5] get up and go out to McDonald's and eat?	15] A: No, sir.
6] A: Yes.	0: Do you have any criticism of the Kittner
7] Q: Why?	17] article?
8] A: I don't know. I literally don't know why she	MR. MISHKIND: Objection.
9] got so much better.	19] A: No, sir.
Q: Women in the post partum period who suffer	Q: Any disagreements with the Kittner article?
1] strokes when there's no known source found, are those	MR. MISHKIND: Objection.
2] more often than not arterial strokes or venous	MR. MISHKIND: Do you understand
3] strokes?	3] what he means when he says "disagreement"?
A: Arterial.	^{24]} THE WITNESS: No.
Q: What do you base that on, the Kittner article?	25] Q: You and Dr. Price disagree on your opinions in
Page 66	Page 68
1] A: Well, in my experience, see, if we look at the	[1] this case. That's disagreement.
2] question of stroke, in my experience, more than half	[2] A: Yes, sir.
n of the patients I have seen have had ruptured	Q: Okay. Is there anything that stood out in the
intracranial aneurysms.	[4] Kittner article that you disagreed with?
Q: Well, then, a source for a stroke would be the	MR, MISHKIND: Objection.
aneurysm?	[6] Go ahead.
7 A: The mechanism.	71 A: No, sir.
a) Q: Correct. I'm talking about, for instance , the	Q: Either the methodology used or the conclusions
) two patients who you had which you could not find a	in that were reached?
y source for. Under those circumstances, is it more	MR, MISHKIND: Same objection.
) arterial or is it more venous?	1) Goahead.
A: More arterial, sir.	A: Well, I think the methodology was sloppy. Now,
Q: And the reason for that?	3) based on that methodology, I have no reason to
A: I don't know, other than if we look at all	4) disagree with their statistical analysis of the data
strokes, the weighting is significantly towards	5) they produced in their tables and so forth.
arterial pathology in contrast to venous pathology.	0: When you say "sloppy," what do you mean?
Q : What was the cause for this narrowing that you	A: Well they simply went to 45 hospitals. I think.
noted, the 20 percent narrowing of the carotid?	⁸ most of them in Maryland, and went to the record rooms
A: I don't know, other than a constriction like	g and got the records of individuals who had had stroke
this is produced by fragments of fibromuscular	^{10]} following parturition and also some individuals who
dysplasia or a bit of erythematous change.We	in were in the same age category, female, and didn't have
1 literally don't know without tissue examination	2] stroke following the birth of a baby.
] because it happens.	Having chaired record committees and looked at
Q: This evaluation, the 20 percent that you	4] statistical data with some epidemiologists, I know how
reached, that was from an MRA in 1996?	is varied in accuracy and completeness these records from

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Deposition of Clark H. Millikan, M.D. November 6, 1997

	Page 65	Page 67
[1]	changes in the chemistry of the blood produced by	[1] A: Yes, sir.
[2]	infection.	[2] Q: Could that have been spasm of the carotid as
[3]	Q: So if this patient was not, in your opinion,	[3] opposed to an actual narrowing?
[4]	septic, did not have septicemia, then that would rule	A: It is possible. I don't think it's likely but
[5]	out the carotid source?	[5] it's possible.
[6]	A: Not necessarily. We have patients who get	[6] Q: Why don't you think it is likely that it was a
[7]	inflammatory reactions as in cranial periarteritis and	[7] spasm?
[8]	periarteritis nodosa and lupus without inflammatory	A: It was bilateral and it had a contour of a
[9]	reactions in vessels secondary to an infection that is	¹⁹ lesion in the wall of the artery rather than a
[10]	localized elsewhere from the body without literally	in constriction of the muscles.
[11]	producing any septicemia.	0: Did you mention that you reviewed articles for
[12]	0: Why did she get better on Monday?	a the New England Journal of Medicine?
1131	A: I don't know sir	a A: I have ves
[10]	Ω : Did you find that unusual that she was able to	. O: Were you asked to review the Kittner article?
1151	get up and go out to McDonald's and eat?	$\begin{array}{c} \mathbf{A} \\ $
1101	Δ. Yes	O: Do you have any criticism of the Kittner
[10]	$0 \cdot \mathbf{W} \mathbf{h} \mathbf{v}^2$	6] Q. Do you have any enticism of the Kither
[17]	A: I don't know. I literally don't know why she	m MD MISHKIND: Objection
[18]	act so much better	B) WR. MISHRIND. Objection.
[19]	O: Women in the post partum period who suffer	9) A: NO, SII.
[20]	w . Women in the post partial period who suffer	¹⁰ Q: Any disagreements with the Kitther article?
[21]	strokes when there s no known source found, are those	1] MR. MISHKIND: Objection.
[22]	more often than not arterial strokes or venous	¹² MR. MISHKIND: Do you understand
[23]	strokes?	(3) what he means when he says "disagreement"?
[24]	A: Arterial.	[4] THE WITNESS: NO.
[25]	Q: what do you base that on, the Kitther article?	Q: You and Dr. Price disagree on your opinions in
	Page 66	Page 68
[1]	Page 66 A: Well, in my experience, see, if we look at the	Page 68
[1] [2]	Page 66 A: Well, in my experience, see, if we look at the question of stroke, in my experience, more than half	Page 68 [1] this case. That's disagreement. 2] A: Yes, sir.
(1) (2) (3)	Page 66 A: Well, in my experience, see, if we look at the question of stroke, in my experience, more than half of the patients I have seen have had ruptured	Page 68 [1] this case. That's disagreement. 2] A: Yes, sir. 3] Q: Okay. Is there anything that stood out in the
[1] [2] [3] [4]	Page 66 A: Well, in my experience, see, if we look at the question of stroke, in my experience, more than half of the patients I have seen have had ruptured intracranial aneurysms.	Page 68 [1] this case. That's disagreement. 2] A: Yes, sir. 3] Q: Okay. Is there anything that stood out in the 4] Kittner article that you disagreed with?
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8

	4
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[1] 45 hospitals are going to be about the nature of the	[1] Q: But for the dehydration, would the outcome have
[2] stroke, whether the CTs were done and when they were	[2] been different?
[3] done, how the patients were worked up, how many of	[3] THE WITNESS: Would you read
[4] them had TEEs, et cetera, et cetera.	(4) that, please?
[5] I've been through this matter of epidemiologic	[5] (Record read.)
[6] studies, particularly in drug trials, that is,	[6] MR. MISHKIND: Before you answer
[7] treatment trials, and can simply say that, from my	[7] the question, you mean everything else
[8] experience with such kinds of compilations of	^[8] stays as is, just take the dehydration
[9] material, we just get kind of an overall shotgun	[9] away?
[10] opinion of how many this is and that is.	MR. FARCHIONE: Yes.
[11] For instance, I didn't see anything in there	MR. MISHKIND: Okay.
about stroke following cesarean section, which is the	A: I don't believe so
^[13] situation we are dealing with in the patient that we	O: You don't believe the outcome would have been
(14) are discussing. So that immediately raises the	different?
(15) question how extrabable is the statistical analysis of	5 A' Correct
the these patients from 40 plus different hospitals to the	Ω Ω : What are the signs of senticemia? And symptoms
(17) one patient that we are discussing today	7 Put them both together
Ω = Ω : Have you seen the protocols that were used for	7 r ut them both together.
(a) the study in terms of which patients would be	a hadly favor of various degrees: sometimes shills:
included which patients would be excluded?	⁹ badiy, rever of various degrees, sometimes eaturel
rev A: No. I have not seen the protocols	of interference with appende, sometimes actual
[21] A. No, I have not seen the protocols.	1] snivering; blotchiness of the skin sometimes,
[22] Q: Discuss that with Dr. Price at all?	2] depending on the site of the cause; nausea; vomiting.
[23] A: Have 1?	⁽³⁾ Q: But for the septicemia in this case, would the
[24] Q: Yes.	4) outcome have been different?
[25] A: NO, SIF.	A: I think the septicemia played a significant role
Page 70	Page 72
[1] Q: Your criticism of the study, have you verbalized	1) in producing the hypercoaguabiliy.
[2] that criticism or written that criticism other than	2] Q: Let me take that to the next step. If the
(3) what you've just said here today?	3] patient was not septic, did not have septicemia, would
[4] A: No, sir.	4) it be fair to state, then, to a probability the stroke
[5] Q: You said that the patient was dehydrated when	sj wouldn't have occurred?
[6] she presented to the hospital. Was she any more	A: I don't think so. I think the stroke would have
[7] dehydrated than a patient, any normal patient, two	7 occurred.
[8] weeks post-cesarean section, a week actually?	Q : Why do you think the stroke would have occurred
[9] A: I don'tknow.	gl absent the septicemia?
[10] MR. MISHKIND: It's actually two	A: I think there were phenomena going on in this
[11] weeks.	11 complex coagulation-lysis system that were triggered
MR. FARCHIONE: Two?	a by the chemical phenomena produced by the inflammatory
MR. MISHKIND: Yes. November 2 to	a reaction around and adjacent to the foreign body
[14] 15.	L do believe that there was interaction of a
15) MR. FARCHIONE: Okay.	s number of factors including the existence of the
16) A: I don't know.	s senticemia but there can be as I mentioned earlier
171 MR. MISHKIND: 13 days	a an inflammation particularly of blood yessel wells
$\frac{0}{181} = 0$ You don't know?	a without having conticomia maching bacteriamia or
$\mathbf{A} \cdot \mathbf{N}_{\mathbf{O}}$	by without naving septicenna, meaning bacterienna or
Ω Ω . The dehydration that you see in this nation is) vireinia, et cetera.
zu that in and of itself arough to have a notiont	y Q: You mentioned some textbooks, one of them being
en mai in and of itself enough to have a patient	1] Toole's text. Is that T-0-0-L'S?
22; nospitalized :	A: T-O-O-L-E.
$\begin{array}{ccc} \textbf{A: INO, SII.} \\ \textbf{O: Do such comes } & (and will defend of a state of a sta$	3) Q: And what's the textbook entitled?
Q: Do you agree it was mild dehydration at best?	1 A: Cerebral Vascular Disease.
251 A: Yes, Sir.	i Q: Cerebrai vascular Disease?

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	Page 73		Page 75	
[1]	A: Yes.	[1]		
[2]	Q: Barnett is spelled how?	[2]	FURTHER EXAMINATION	
[3]	A: B-A-R-N-E-T-T.	[3]	BY MR. MOSCARINO:	
[4]	Q: And his text is entitled what?	[4]	Q: Doctor, how much time do you spend in reviewing	
[5]	A: Stroke.	[5]	cases, medical-legal matters?	
[6]	Q: And your friend in England, has that name come	[6]	A: Oh, probably less than two percent of my time	
[7]	back to you, or perhaps the name of his textbook?	[7]	maybe, Well, less than two percent of my time.	
[8]	A: Cerebral Vascular Disease.	[8]	Q: Have you ever worked with Mr. Mishkind before?	
[9]	Q: Same title as Dr. Toole's book?	[9]	A: No, sir.	
[10]	A: Yes, sir.	[10]	Q: Ever work with his law firm before?	
[11]	Q: And the name of your textbook?	[11]	A: No, sir.	
[12]	A: Stroke.	[12]	Q : Tell me if you agree with this statement. The	
[13]	Q: Any other writings, publications that you have	[13]	extremely high relative risk of stroke during the post	
[14]	in your curriculum vitae that you feel would be	[14]	partum period suggests a causal role for the large	
[15]	applicable to this particular case?	[15]	decrease in blood volume or the rapid changes in	
[16]	A: Yes, sir.	[16]	hormonal status that follows a live birth or still	
[17]	Q: Which ones would those be? Do you have your CV	[17]	birth.	
[18]	numbered by page? If you can just give me the page	[18]	A: I do not agree with that statement.	
[19]	number with the number of the article or book, that	[19]	Q: What part of that statement do you disagree	
[20]	would be sufficient.	[20]	with?	
[21]	MR. MOSCARINO: Off the record.	[21]	A: First part.	
[22]	(Discussion had off the record.)	[22]	Q: The part that says there is an extremely high	
[23]	A: Page 15, item 92; page 16, item 99; page 18,	[23]	relative risk of stroke during the post partum period?	
[24]	item 137;page 19,item 145;page 19,item 153;page	[24]	A: Yes, sir.	
[25]	21, item 183; page 22, item 199; page 22, item 207;	[25]	Q: Because you just don't believe there is such a	
	Page 74	Page 76		
[1]	page 22, item 209. Conclusion.	[1]	risk?	
[2]	Off the record? I thought of the name of the	[2]	A: Well, the risk of stroke in the post partum	
[3]	author of that book.	[3]	period is one out of about 12,000.I do not think	
[4]	Q: Let's put it on the record.	[4]	that's a high risk.	
[5]	A: The name of the Englishman authoring a book on	[5]	Q: Is the risk for the women who are in that post	
[6]	Cerebral Vascular Disease is Ross Russell.	[6]	partum state as opposed to women who are not in the	
[7]	Q: When this patient was admitted to remove the	[7]	post partum state high in relation to that? Do you	
[8]	sponge, if she was not dehydrated and if she did not	[8]	understand my question?	
[9]	have septicemia, would the outcome to a probability	[9]	A: Yes, sir. The risk in the post partum state, as	
[10]	have been different?	[10]	I just mentioned, is about one in 12,000.For the	
[11]	MR. MISHKIND: Objection. Asked	[11]	same age woman not in the post partum state, it's	
[12]	and answered.	[12]	about one in 100,000.	
[13]	MR. FARCHIONE: I asked it	[13]	Q: So are those two risks when compared, or stated	
[14]	individually Just so it's clear, I asked	[14]	another way, when you compare the non-post partum to	
[15]	individually if there was no dehydrated;	[15]	the post partum women, do you have, then, an extremely	
[16]	individually if there is no septicemia.	[16]	high relative risk of stroke?	
[17]	Q: Just so it's clear, Doctor, if there was no	[17]	MR. MISHKIND: Objection.	
[18]	dehydration and no septicemia when she was admitted,	[18]	A: It depends on the definition of "extremely	
[19]	all else being equal, would the stroke have probably	[19]	high." If one looks at a difference between one in	
[20]	occurred?	[20]	12,000 and one in 100,000.why, that's approximately	
[21]	A: Yes, sir.	[21]	eight to one. I think that a risk of one in 12,000 is	
[22]	Q : And it comes down to the inflammatory response	[22]	a very, very slight risk.	
[23]	from the retained foreign body?	[23]	Q: Well, then, do you agree that that risk, whether	
[24] [251	A: Yes, sir. MR. FARCHIONE: That's all I have.	[24] [25]	slight or extremely high, suggests a causal role for the large decrease in blood volume or the rapid	

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(1) changes in hormonal status that follows a live birth	~
[2] or still birth?	
MR. MISHKIND: Objection.	
A: Go ahead.	
A: There is possibly a relationship. I don't know	
technically and we are not talking about	
7 post-cesarean section of course	
[7] post-cesarcan section, or course.	
 Q. That syour opinion: A: The numbers that I gave are not post cesarean 	
[9] A. The numbers that I gave are not post-cesarean.	
(10) They are just post partum, normal derivenes.	
[11] Q. So your assumption is that the Kither articles	
[12] deal solely with natural deliveries?	
[13] A: Yes, sir.	
[14] MR. MOSCARINO: That's all I have.	
[15] MR. MISHKIND: The doctor will	
[16] read it. I will take a copy.	
[17]	
[18] (Deposition concluded at 1:27 p.m.)	
[19]	
[20]	
[21]	
[22]	
[23] Clark H. Millikan, M.D.	
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Page The State of Ohio,)) SS: CERTIFICATE	je 78
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