E)	DWARDS vs. KELLY		Multi-l	Pag	,с тм		BRUC	<u>E L.</u> F	LAM	, м.D., 5-	-29-
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1	STATE OF MICHIGAN		1	t			IN	DEX			
2	in the circuit court for the county of	NGHAM		2							
3	CANFER FOR THE THE ARDE LA LA			3	BRU	CE L. F	LAMM, M.	.D., F.A.C	.O.G.	PAGE	
4	SAMUEL JOSEPH EDWARDS, by his Next Friend, JOSEPH LEE EDWARDS, and KAREN FUEL EDWARDS, and)		1	Ех	camina	ution by M	fr. Boug	hton	4	
5	and KAREN SUE EDWARDS and JOSEPH LEE EDWARDS, individually,	1		5							
7	Plaintiffs,))	10	5							
8	-V\$.~) CASE NO.		7		P L	AINTI	FFS'	ЕХН	IIBITS	
• 9	PAUL A. KELLY, M.D., EDWARD W.) 96-82721-NH	8	3		BER	DESCRIP	TION		MARKED	
	SPARROW HOSPITAL ASSOCIATION, d/b/a LANSING OB-GYN ASSOCIATES,)	9)			enstitled "Sums Vitze, Bruce [.				
10	PRANK TAKYI, M.D., SPARROW HEALTH SYSTEMS, a Michigan Non-Profit	}	10)		M.	D., F.A.C.	.0.G."		94	
11	Corporation, and GRADUATE MEDICAL EDUCATION, INC., jointly and severally,))	1	1	2		andwritten			94	
2	Defendants.)	12	-						01	
13)	13	-							
4			114								
5			115								
6			116								
7	Deposition of BRUCE L. FLAMM, M.D., F.A.C.C	.G.	17								
8	taken by the Plaintiffs at 11043 Magnolia Average,		18								
9	Suite 416, Riverside, California, commencing at		1								
0	9:05 a.m., on Thursday, May 29, 1997, before		19								
1	Denise R. Petersen, CSR #3833, pursuant to Notice,		20	I							
2			21								
3	CHRISTOPHER & ROBBINS		22								
4	Reported by: Certified Shorthand Reporters Denise R, Petersen 3740 McCray Street		23								
5	CSR No. 3833 Riverside, CA 92506		24								
_			25							****	<u> </u>
1	APPEARANCES		Page 2			החמ		~ * •	1616		Page
2							UCEL				
3	For the Plaintiffs: Law Offices of		2		na	aving t	een auly	sworn, 1	estitied	as follows:	
4	Samuel Joseph Edwards, SINAS, DRAMIS, BRAN Joseph Lee Edwards and BOUGHTON & MCINT		3								
5	Karen Sue Edwards: 520 Seymour Avenue Lansing, MI 48933- 11	2	4								
6	By: SARRY D. BOUGHTON Attorney at Law		5				EXAMIN	IATION			
7	For the Defendants: Law Offices of		6								
8	Paul A. Kelly, M.D., KITCH, DRUTCHAS, Edward W. Sparrow Hospital WAGNER & KENNE	r. p.C.	7	E	IY MI	r. Bou	GHTON:				
9	Association, d/b/a Lansing One Michigan Avenue Ob-Oyn Associates, Frank 120 Washington Sq. 1	-	8	Ç) Do	octor,	would you	ı state y	our full	name for the	-
5	Takyi. M.D., Sparrow Health Lansing, MI 48931-16 Systems, a Michigan By: JOHN P. RYAN		9		rea	cord, p	lease?				
	Non-Profit Corporation, and Attorney at Law Graduate Medical Education.		10	A	B	ruce L	, Flamm.				
	Inc., jointly and severally:		11	C	A	nd you	r age?				
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			22	•	\ tw	o year	s when I w	vas invo	lved wit	h this — if ye	DU
			23		pa	ss cert	ain criteria	a, you'n	e admitt	ed as a partn	er
			24				oup.				

		ARDS vs. KELLY Mul		9	BRUCE L. FLAMM, M.D., 5-29 Pag
1		for service?	· ·	~	
2	А			Q	practice outside of Kaiser?
3	Ô		2		That is right.
4		Fourteen years.	3	A	How is your professional time spent as an employee
5	 	And could you tell us what Kaiser Permanente is?	4	Q	at Kaiser Permanente?
6	×	Kaiser Permanente is a health maintenance			
_	л		6	A	Well, I'm not exactly an employee. As
7	~	organization.	7	_	partner/physician.
8	Q	Is it one of the original health maintenance	8	Q	Excuse me, partner/physician.
9		organizations in this country?	9	A	Kaiser Permanente is divided into three face
10		Yes, it is.	10		There's the health plan, the hospitals and the
11	Q	One of the earliest?	11		medical group, and I'm partner with the medical
12		Yes.	12		group. My time, the vast majority of my time, is
13	Q	How large is Kaiser Permanente?	13		spent in clinical medicine, practicing obstetr
14	A		14		and gynecology.
15		about six million members. We have other divisions	1.5		I'm also the head of the residency progr
16		nationwide, but I think altogether they encompass	16		which is affiliated with University of California
17		something like a million members.	17		at Irvine, so I spend a small amount of my ti
18	Q	So approximately seven million patients -	18		supervising the residents, and I spend a small
19	A	I believe that's correct.	19		amount of my time doing research.
20	Q	nationwide?	20	Q	And as between those three functions, your clini
21	A	Yes.	21	-	practice, supervising residents and research, cou
22	Q	And how many physicians?	22		you give me a rough idea, in terms of percentage
23	À		23		of how much time you devote to each?
24		something on the order of in California -	24	A	Probably over ninety percent of the time would b
		-	·		watchest a lar meres harden or we more thank to mere of
25		Southern California, I believe, 2,000.	25		
25	. <u> </u>	Southern California, I believe, 2,000.	25		clinical medicine and less than ten percent would
	<u> </u>	Page 6	1		clinical medicine and less than ten percent would Pag
1		Page 6 Northern California, a similar number.	1		clinical medicine and less than ten percent would Pa be divided up among everything else.
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ł		ARDS vs. KELLY Mul Page	NO.		Page
1		of the defendants in this case and I take it you	1	0	Have you ever given a deposition for a plaintiff?
2		understand that?	2	V A	No, I haven't.
3	А	Yes.	3	0	Or testified in court?
4	Q	Have you ever been a defense expert before in a	4	A	No.
5	•	medical malpractice case?	5	0	
6	A	Yes, I have.	6	×	malpractice case as an expert against another
7	0		7		OB/GYN physician?
8		defense expert?	8	A	No.
9	A	Well, I have reviewed a total of approximately	9	0	· · · · · · · · · · · · · · · ·
10		eighty cases over the last probably seven or ten	1	×	contacted in the Edwards case?
11		years and I have - actually as far as giving	11	A	Let's sec. I have some cover letters, but I do
12		testimony, are you asking or	12		-I don't think any of these are the first one
13	Q	Depositions, for example, like this morning.	13		Let's see. The first one goes back to July of '96,
14	-	Probably on the order of 20 or so depositions.	14		but I believe it was a little before that. It was
15	Q	And testifying in court?	15	r.	before that
16		Probably four or five times approximately.	16	0	And who was it that contacted you at that time?
17	0	On all of those occasions were you a defense	17	~	I can't recall. It may have been Mr. Ryan, but I'
18	¥	expert?	18	~	not actually sure.
19 19	A	Yes.	19	~	Did you open a file at that time?
20				Q	
	Q	Have you ever been a defense expert in a Michigan	20	Λ	I have everything with me that I recall that I
21		medical malpractice case?	21	~	would call a file in this case, yes.
22	A	Not in I have not appeared in a trial, but I	22	Q	Basically, what does your file consist of?
23	~	have given depositions, yes.	23	A	This is the "Notice of Intent to File a Claim", the
24 25	Q	Have you ever been a defense expert for the law	24		"Complaint and Demand for Jury", "Affidavit of
~		firm representing the defendants in this case?	25		Merit [*] from Dr. Goodman. Then I have medical
		Page 10	N		
1		V			—
1		Yes.	1	~	records from Karen Edwards.
2	Q	And about how many times, if you know?	1	Q	records from Karen Edwards. And essentially what do you have in connection with
2 3		And about how many times, if you know? Probably ten depositions, I would say. Something	1 2 3	•	records from Karen Edwards. And essentially what do you have in connection with medical records?
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2 3 4 5 6 7 8 9 0 1 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2	Q A Q A Q A Q A Q A Q A Q A Q	And about how many times, if you know? Probably ten depositions, I would say. Something on the order of that. And perhaps reviewed a few additional cases? Yes. Any idea of how many cases you have reviewed in total for this law firm? I don't have any record of that. Have you ever been a defense expert where Mr. Ryan was the lead attorney for the defendant? I believe we're involved with one other case; if I'm correct. That's pending at the present time? Yes. About when was it that you first acted as a defense expert on behalf of this law firm? About how long ago? On any case, yes. I would say it's probably been approximately five	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 1 e 19 20 21	A Q A Q A Q A Q Q Q Q	And essentially what do you have in connection with medical records? These are the prenatal records and intrapartu records from the 1995 childbirth and, of course, the fetal monitor records. Do you have any of the records from the first pregnancy? I believe I saw a copy of the operative report don't think I have the complete records. Did you want me to continue? Yes, please. And then I have the depositions of Joseph Edward Karen Edwards, Frank Takyi, M.D., T-a-k-y- Paul Kelly, M.D., and Michael Goodman, M. Do you have any medical records with respect to Sammy Edwards? Oh, yes, I'm sorry, there's one additional newborn record, yes. Now, do you have any correspondence from Mr. Ryar

		Page 1	3		Page
1	A	Right.	1		of those are pertinent.
2	Q	basically?	2	Q	Would those articles be listed on your lengthy
3	Α	Basically indicating, "Enclosed for your further	3		curriculum vitae?
4		review are the above-entitled documents".	4	A	Yes.
5	Q	Did you receive any case summaries or deposition	5	Q	
6		summaries from Mr. Ryan's office?	6	A	······································
7	Α	No.	7	Q	I take it you understand that Karen Edwards' uter
8	Q	I take it you have reviewed the materials that you	8		ruptured during this particular labor?
9		have been furnished?	9	A	Yes.
10	A	Yes.	10	Q	Did you review the pathology report that was
11	Q	About how much time have you spent on this case up	11		contained in the medical records?
12		to the present time?	12.	• A	Yes.
13	Α	Probably somewhere between 15 and 20 hours.	13	Q	Were you able to determine the location of the
14	0	Have you made any notes in connection with your	14	-	rupture based on the pathology report?
15	~	review?	15	A	Well, I believe I have that here. Let me just take
:16	A	I have a one page summary here.	16		a look at it. I could not determine from the
17		And does that consist of all of the notes that you	17		pathology report the location of the utcrine
18	~	have made in connection with this case?	18		rupture, no.
19	Δ	Yes.	19	0	Do you see the reference in the pathology report to
20		MR. BOUGHTON: Perhaps we could have that	20	×	photographs having been taken?
21		marked as Exhibit No. 2.	21	A	Yes, photographs of specimens are taken.
22		THE WITNESS: Could I ask that I get a	22		Have you been furnished with any photographs in
223		copy of that as that is my only copy?	23	Y	this case?
.23 .24		MR. BOUGHTON: Certainly. I will leave	24	A	Not to the best of my knowledge, no.
-24 25		this with you or we'll make some arrangements so	25		Have you asked to see any photographs in this case?
			<u> </u>	~	
1		Page 14 you don't lose your original.	1		Page
A		you don i lose your original.			NAN CONTRACTOR OF
2		THE WITNESS alow			No. Have you seen any of the pathology slides?
2 7	0	THE WITNESS: okay.	2	Q	Have you seen any of the pathology slides?
3	Q	(BY MR. BOUGHTON) It appears to be - correct me	2 3	Q A	Have you seen any of the pathology slides? No, I haven't.
3 4	Q	(BY MR. BOUGHTON) It appears to be $-$ correct me if I'm wrong $-$ a summary of the events that were	2 3 4	Q A Q	Have you seen any of the pathology slides? No, I haven't. Have you asked to see those?
3 4 5	Q	(BY MR. BOUGHTON) It appears to be $-$ correct me if I'm wrong $-$ a summary of the events that were taking place during the labor and delivery for	2 3	Q A Q A	Have you seen any of the pathology slides? No, I haven't. Have you asked to see those? No.
3 4 5 6	Q	(BY MR. BOUGHTON) It appears to be - correct me if I'm wrong - a summary of the events that were taking place during the labor and delivery for Karen Edwards on the 29th of January?	2 3 4 S 6	Q A Q	Have you seen any of the pathology slides? No, I haven't. Have you asked to see those? No. Am there a number of factors that can cause or
3 4 5 6 7	Q	(BY MR. BOUGHTON) It appears to be - correct me if I'm wrong - a summary of the events that were taking place during the labor and delivery for Karen Edwards on the 29th of January? Right. And also a brief summary of the prenatal	2 3 4 5 6 7	Q A Q A Q	Have you seen any of the pathology slides? No, I haven't. Have you asked to see those? No. Am there a number of factors that can cause or contribute to a ruptured uterus?
3 4 5 6 7 8		(BY MR. BOUGHTON) It appears to be - correct me if I'm wrong - a summary of the events that were taking place during the labor and delivery for Karen Edwards on the 29th of January? Right. And also a brief summary of the prenatal care and her past history.	2 3 4 5 7 8	Q A Q A Q A	Have you seen any of the pathology slides? No, I haven't. Have you asked to see those? No. Am there a number of factors that can cause or contribute to a ruptured uterus? YW.
3 4 5 6 7 8 9		(BY MR. BOUGHTON) It appears to be - correct me if I'm wrong - a summary of the events that were taking place during the labor and delivery for Karen Edwards on the 29th of January? Right. And also a brief summary of the prenatal care and her past history. You have said that is the only writing you have	2 3 4 5 6 7 8 9	Q A Q A Q A	Have you seen any of the pathology slides? No, I haven't. Have you asked to see those? No. Am there a number of factors that can cause or contribute to a ruptured uterus? YW. What are some of those factors, based on your
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ED	W	ARDS vs. KELLY Mult	i-P	age	TM BRUCE L. FLAMM, M.D., 5-29-9
	etito e oceania	Page 17	7		Page 15
1		monitor catheter?	1	Q	Did you form an opinion as to when the uterus
2	A	That's been reported, yes.	2		ruptured in this case?
3	Q	Defective uterus?	3	A	I can't, of course, give exact time. My
4	А	Defective uterus? I'm not sure exactly what would	4		inclination is to think that it happened fairly
5		be meant by that.	5		close to the time of the delivery.
6	Q	All right. What about manual rotation of the baby?	6	Q	Within what time frame would you estimate?
7	A	Any type of instrumentation or manipulation, I	7	Â	Well, I think it would be easier to say if there
8		imagine, could be linked to uterine rupture.	8		was - if there's a catastrophic rupture and the
9	0	What about obstructed labor?	9		baby is expelled from the uterus or a major portion
10	À	Has been linked to uterine rupture.	10		of the baby is expelled, very often we can see
11	0	Abnormal presentation?	11		things on the fetal monitor strip that really help
12	-	Has been linked to uterine rupture, yes.	12		us to mark the event. If there's a tear in the
13		Large baby?	13		uterine wall and the baby or the umbilical cord is
14	Ā		14		not expelled, sometimes the monitor findings aren't
15	**	mentioned, yes.	15		as dramatic.
16	Q		16		So I'm just basing my thinking on the fact
17	¥	uterine rupture in this case?	17		that the fetal monitor strip looked fairly
18		No, I don't.	18		reassuring. And, for example, it would be hard for
10		Are there any possibilities that you believe should	19		me to believe that this rupture occurred within an
1	Q	be considered as potential causes in this case?	20		hour or two after the time that she came into labor
20		I think it's it's well-known that uterus that	1		and delivery.
1	A		22	~	And started Stage 1 of labor? Is that what you're
22		the uterus can rupture in any labor, and certainly		Q	talking about?
23		in cases where the uterus ruptures in an area over	23		In early labor, right. The fetal monitor strip, to
24		a previous scar, we feel fairly comfortable we have	24 25	Α	me, doesn't seem to reflect that, although it would
25		at least a linkage between why it occurred.			
		Page 18			Page 2(
1		In this particular case, with a rupture	1	~	not be impossible that that could have happened.
2		appearing to have occurred more towards the	2	Q	Within a time frame from the time of delivery, are
3		posterior aspect, it may just be one of these	3		you able to say how long before delivery this
4		unusual events where the uterus ruptures for no	4		uterine rupture may have occurred, based on what
5	_	obvious reason.	5		you know of this case?
6	Q	You mentioned that the location of the rupture	6	A	Again I have reviewed dozens of uterine ruptures
7		appears to be in the posterior aspect of the	7		and it's almost impossible to exactly time when the
8		uterus, correct?	8		uterus ruptured. I think it's pretty hypothetical.
9	A	Yes.	9	Q	• •
10	Q	And what is that based on?	10		Dr. Takyi?
111	A	I'm basing that on the operative report and the	11	A	
12		description of the operating surgeon.	12	Q	And I believe both of them estimated they felt the
13	Q	This would be basically Dr. Kelly, correct?	13		rupture may have occurred within 30 minutes of
14	A	Yes.	14		delivery.
15	Q	Even though that was not verified in the pathology	15		Did you see that?
16		report from the pathologist at the hospital?	16	A	Ycs.
17	A	Well, the pathologist doesn't seem to indicate	17	Q	What's your impression about that?
18		anything on the pathology report about where the	18	A	I think they certainly could be right, but I don't
19		rupture occurred.	19		think anybody in the world could actually could
20	Q	So the potential cause in this case is what that	20		answer that question accurately.
21		should be considered?	21 `	, Q	Is it your opinion that this uterine rupture could
22	Α	Probably the majority of events that happen in	22	Ň	have occurred before the second stage of labor
23		medicine and including very often uterine	23		began?
24			24	A	Theoretically it's possible.
1		· · · · · · · · · · · · · · · · · · ·		- •	

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		Page 21			Page 23
1		you have seen in this case in terms of the evidence	1		it could have been an opportunity, yes.
2		that you have had to review?	2	Q	Well, you believe that careful observation during a
3	Α	I would think it would be unlikely but not	3		trial of labor is mandatory to assure that the
4		impossible.	4		majority of merine ruptures occur without major
5	Q	Why would you say it would be unlikely?	5		maternal consequences, correct?
6	Α	Again with the many cases of uterine rupture that I	6	Α	Yes.
7		have reviewed and the studies that we have done, if	7	0	I think I have quoted you accurately?
8		there's a uterine rupture, very often there are	8	À	That sounded very good.
9		changes detected on the fetal monitor strip that	9	0	All right. And certainly observing the condition
10		help us to see that.	10	•	of the uterus at the time of delivery would be
11	0	What sort of changes?	11		consistent with that principle, would it not?
12	•	Very often we'll see prolonged deceleration of the	12	Α	No, we have not been doing interior examinations
13	· ·	fetal heart rate that's perhaps the most common	13	~	for about a decade now after the delivery of the
14		finding — that does not return to baseline. Very	1		baby.
15		deep variable decelerations are another finding	15	0	We? Who is "we"?
16		that we often see.	16	A	
17	0	When you say a prolonged deceleration that does not	17	A	my group, some 200 physicians.
	Q		1	~	Certainly a uterine rupture that leads to a
118		return to baseline, you mean never returns to baseline or	18	Q	-
19			19		hysterectomy is a serious maternal consequence; is it not?
20	A	In some cases that is exactly right. We have seen	210		Yes.
21		cases where the fetal heart rate will fall perhaps	21	A	
22	_	to 50 or 60 beats per minute and never recover.	22	Q	Would you agree that, according to the records,
23	Q	You have seen other cases where it does recover? Yes.	23		Sammy Edwards was in respiratory distress at the time of his birth?
24	A		24 25		
25	Q	So it can be a variety of situations in terms of	43	A	······································
		Page 22			Page 24
1		the fetal heart rate, right?			see that the pediatric assessment did use the
2	Α	Yes.	2		terminology "respiratory distress".
-3	Q	Did you observe the delay between the delivery in	3	Q	Do you have any serious quarrel with the use of
4		this case and the discovery of the ruptured uterus?	4		that term to describe his condition?
S	Α	I'm sorry, did I - could you rephrase that? I'm	5	th	No. I probably should add that again that I'm not
6		not sure I understand that.	6		a neonatologist or a pediatrician though. That is
7	4	Did you observe that there was a time delay between	7		a little out of my league.
8		the time of delivery and the time of discovery of	8	Q	Would you further agree that the most probable
<u>9</u>		the ruptured uterus?	9		cause of the respiratory distress was hypoxia?
10	A	Well, my understanding is that the discovery of the	10	A	No, I'm not sure that I would agree with that, just
11		ruptured uterus was after the delivery.	11		reading through the neonatal notes. They have
12	Q	Right. And did you observe what that lag in time .	12		several different potentials listed for that and I
13			13		see the terminology "TTN", which would be transient
14		of the ruptured uterus?	14		tachypnea of the newborn, pneumonia, which often
15	Α	I believe it was within the first hour after the	15		can cause a transient difficulty with breathing
1 (6		birth.	16		after birth. And then they're also ruling out
17	Q	Did you also observe that neither Dr. Kelly nor	17		sepsis or pneumonia.
18		Dr. Takyi examined Karen Edwards' uterus at the	18	Q	Did you determine whether or not they ruled out
19		time of delivery ?	1'9		sepsis and pneumonia?
20	Α	Yes.	23	A	Again I'm not planning to testify to pediatric or
21	Q	Would you agree that that was an opportunity to	21'\		neonatal matters so -
22		discover the ruptured uterus?	22	\ Q	You saw references in Sammy's records to hypotonia?
23	Α	That is an interesting way to phrase that. I	23	A	Yes.
24		imagine there are many opportunities in life for		Q	Loss of tone in the muscles of his upper trunk and
1				-	

ED	WA	ARDS vs. KELLY Mul	وشمار والالالاليون	agc	
		Page 2	5		Page 2
1	A		ļļ	A	Well, there have been many authors that have
2	Q	Did you have an impression or form an opinion as to	2		published widely on the issue. I haven't counted
3		the cause of that condition?	3		up the exact numbers. I have published many
4	Α	No. Very often soon after birth babies are	.4.		articles.
5		somewhat hypotonic. I saw that the Apgars were	5	Q	Any that you know of that have published more than
6		"5", "7" and "9", and some of the points were taken	6		you have on the subject?
7		off for decreased muscle tone, as they often are	7	A	I would really have to count. I know of a couple
8	Q	But I guess I'm not understanding what you're	8		authors that may be right up there. I'm flattered
9		saying. You saw that the condition was reported at	9		but —
10		the time of birth, correct?	10	Q	Who would they be?
11	A	Correct.	11	A	Several of the authors from USC have published many
.12	Q	But as to the cause of the condition, you're not	12		papers. Dr. Jeff Phelan.
13		offering an opinion on that subject?	13	Q	Phelan? And how would you spell that?
14	A	Well, again I'm not sure what you're getting at. I	14	A	P-h-c-l-a-n. Jeffrey Phelan.
15		understand that the Apgars were "5", "7" and "9",	15		Richard Pulk, P-u-l-k.
.16		that the Apgar was "5" at one minute partially	16	0	Are they both at USC?
17		because two points were taken off for decreased	1	À	
.18		tone. I'm agreeing with that. I guess I'm just	18		Dr. Phelan left USC many years ago.
19		not understanding.	19	0	
20	0	Maybe I'm not understanding what you're saying,	20	¥	have published close to the number of articles you
20 21	Ŷ	which is probably a more likely situation.	21		have on the subject?
:22		Are you - would it be your opinion that	22	A	Probably not in that range, no.
.ш Ю		hypotonia would be consistent with respiratory			It's true, isn't it, Dr. Flamm, that the success
		distress at the time of birth?	23	Q	•
:24 25			24		rate is not the same for all women who attempt
<u></u>	<u>A</u>	They can occur simultaneous, they can occur	25		VBAC?
1		Page 26 independently.	١.	A	Page 28 That is true.
2	0	Can hypotonia occur because of respiratory distress	2	0	I believe your research has shown that women with a
3	Ŷ	caused by hypoxia?	3	Ŷ	previous cesarean section for cephalopelvic
3 4	A	Yes, it can.			disproportion or failure to progress have the
5		Now, as I understand it, Dr. Flamm, you believe in	4		lowest success rate?
		· · · · · · · · · · · · · · · · · · ·	-	-	
6		recommending that women attempt a vaginal birth	6	Α	
7		after they have had a cesarean section, correct?	7		studies that we did where we compared certain
8		I believe if the woman wants to and has no	8		indications such as prior cesarcan for breech or
9		contraindications, yes.	9		fetal distress or CPD, and in those groupings, yes,
		In fact, it would be fair to say that you are an	10		they had a lower success rate.
11		advocate of what has been referred to as VBAC?	11	Q	I think the success rate that you have reported was
12		I imagine the word "advocate" would be a fair term.	12		65 percent?
	~	You have written a number of articles encouraging	13	A	That sounds correct, yes.
14		physicians to encourage their patients to attempt	14	Q	In other words, roughly a third of the women who
15		VBAC?	15		attempted VBAC with that history failed to deliver
16	Α	Yes.	16		vaginally?
17	Q	You have made presentations to your colleagues on	17	A	That is correct.
18		that subject?	18	Q	Another group of women, as I understand it, with
l 9	A	Yes.	19		the next lowest rate of success were women who
20	Q	If the defendants had set out to find perhaps the	20		received oxytocin during labor?
21		No. 1 proponent of VBAC in the United States, it	21	A	Yes.
22		would have been you, would it not?	22	Q	And, as I understand, you reported that in that
		I would be one of them.	23		group, 68 percent were able to deliver vaginally?
23	A	· ····································			
•		Has anyone published more articles in favor of VBAC	24		I believe that's correct.

ا <i>لي</i> ط يب	7 ¥ I	ARDS vs. KELLY Mult Page 29	and the second secon	<u>*6</u>	BRUCE L. FLAMM, M.D., 5-29- Page
1		the data for that group of women whose primary	1		a primary cesarean section for failure to progress
2		cesarean section was for failure to progress and	2		or cephalopelvic disproportion. And I believe in
3	_	who received oxytocin during a trial of labor?	3		that study you had a total of 1,951 women, 1.268
4	Α		4		which were able to deliver vaginally and then
5		some of the papers that we have published. I don't	5		roughly one third or 683 that did not deliver
6		have it at the tip of my fingers.	6		vaginally?
7	Q	I have an article that was published by you in 1987	7	A	This was in the CPD group, right?
8		entitled "Oxytocin During Labor After Previous	8	Q	Yes.
9		cesarean Section: Results of a Multi-Center	9	A	Yes.
10		Study". And I believe it indicates in that study	10	Q	Have you published anywhere an article that
11		under Table 1 that women who had a history of	11		describes what happened to those 683 women, why
12		primary cesarean section for failure to progress	12		they didn't successfully deliver vaginally?
I3		and who received oxytocin had a 54 percent success	13	A	No, I don't believe we did that, no.
14		rate.	14	Q	You're familiar with the term macrosomia, correc
5		Does that sound right?	15	A	Yes.
16	Α	Yes.	16	Q	That refers to the size of the baby?
7	Q	So nearly half of the women with that type of	17	A	Yes.
8	~	history failed to deliver vaginally when they	18	0	And, as I understand it, for the purposes of your
9		attempted a trial of labor after cesarean section?	19	•	research you describe fetal macrosomia as a birth
20	Α	In that data set. I should add that since then we	20		weight of 4,000 grams or more, correct?
21		have studied thousands more women and I'm not sure	21	A	I did that one for one specific paper and there was
22		the numbers have borne that out.	22		a reason for that. The ACOG guidelines for VBAC
)3	0	Can you direct me to any more current study that	23		that responded to a questionnaire note with a 4,000
2 <u>4</u>	×	specifically analyzes women with a history of	24		gram estimated fetal weight. So for the purposes
5		failure to progress who attempt VBAC and receive	25		of that particular paper we chose a cutoff point of
		Page 30	<u> </u>	, , , , , , , , , , , , , , , , , , , 	Page 3
1		oxytocin during their trial of labor?	1		4,000 grams.
2	A		2	Q	So at the time you were doing that, 4,000 had been
3	••	through the literature. I don't have anything at	3	×	the accepted definition of macrosomia among the
2 4		the tips of my fingers right now that I could	4		American College of Obstetricians & Gynecologists,
5		mention.	5		correct?
5	Q	Did you see anything in the medical information	6	Å	It was the terminology used in the VBAC guidelines.
7	Y	that you were provided that indicated that Karen	7	n	I'm not sure that everybody agreed in the general
, 8		and Joe Edwards were told about this statistic that	8		practice of obstetrics that 4,000 grams meant
		approximately half of the women with this type of	9 9		microsomia.
9		history do not successfully deliver vaginally?	-	~	That was the definition used by the American
0			10	Q	-
	A	Well, first of all, I would have to make sure I	11		College of Obstetrics & Gynecologists. correct?
2		understand your question because most of the	12		That's ACOG?
3		time	13	Α	Yes, relating to VBAC. It was in their guidelines,
		- · ·	14	_	yes.
	A			-	As in reference to the term macrosomia?
6			16		Yes.
7		decade ago and since then we have done a dozen		-	And Sammy Edwards at the time of birth. according
		studies and I'm not sure that that number is still	18		to the records, I believe weighed nine pounds and
8		accurate.	19		four ounces, correct?
		And then as far as the second part,	20	A	Correct.
9			21	0	Which converts to 4,205 grams?
9 0		whether they were told, I don't know that they were	41		Charles of Charles Presson
9 0 1		-			That's I can't convert that in my head, but that
8 9 1 2 3		specifically told any numbers, no.		A	

ED	W	ARDS vs. KELLY Mi	lti-P	age	
		Page	33		Page 3
1	Q	And that was not unexpected in this case?	I		that era, around 1984.
2	A	Well, I don't know exactly what you mean by	2	Q	And then in 1988 they altered their recommendation
3		"unexpected".	3		somewhat and they said the effects of labor on
4	Q	Well, it was predicted by the ultrasound that had	4		patients with an estimated fetal weight of more
5		been performed just before the - few days before	5		than 4,000 grams have not been substantiated?
6		the admission for induction of labor, correct?	6	Α	I believe that's correct, yes.
7	A	It was within the range of what you might suspect	7	Q	And, in fact, those guidelines - the 1988
8		from their prediction, yes.	8		guidelines - were the guidelines that were in
9	Q	In fact, that was the reason for her admission to	9		effect on January 29, 1995, when this baby was
10		the hospital and induction of labor, inducement of	· 10		delivered?
11		labor?	11	A	I'm just pondering that for just a moment. I was
12	Α	Yes.	12		trying to think if there were any interim notes
13		And obviously you're familiar with the American	13		from ACOG, and I can't recollect right off.
14	×	College of Obstetricians & Gynecologists, right?	14		So that would be true, correct?
15	۸	Yes.	15	~	Again I don't I haven't memorized all the dates
15		You're a member?	16		of the ACOG guidelines, when they were published.
17	A		17		I haven't memorized all those statistics.
18	Q		18	0	The guidelines in 1995 were published under an
19	~	I believe so.	19	Ŷ	August, 1995, date, correct?
20			1		
	Q	They're the organization that certifies	20	A	
21	_	obstetricians and gynecologists?	[21	Q	Have you analyzed cases and reported in the
22		Yes.	22		literature the situation involving women where the
23	Q	And over the years - I think you have already	23		primary cesarean section was done for failure to
t4		alluded to this - they have published guidelines	24		progress, you have an estimated fetal weight of
!5		concerning VBAC?	25	-	4,000 grams or more, and oxytocin was used to
_		Page	34		Page 3
1	A	Yes.	1		induce labor?
2	Q	And I believe they started, what, in 1982?	2		No.
3	-	I think that's correct.	3	Q	And that really describes the present case, does it
4	Q	And those guidelines have been revised from time to	4		not?
5		time?	5	A	Well, I want to explain my answer to that. The
6	Α	Yes.	6		reason we haven't analyzed that is because we don't
7	Q	I believe they were revised in '84?	7		specifically use estimated fetal weights. And I
8	Α	Uh-huh.	8		think the reason we don't do that is because the
9	Q	Yes?	9		paper we published, I believe in 1989, showed that
0	A	I believe that's right.	10		even if we knew the true fetal weight not some
1	Q	'88?	11		guesstimate/estimate, on an ultrasound - the
2	Ã	Yes.	12		outcomes were similar with babies above and below
3	0	And in 1995?	13		4,000 grams.
4	~	Yes.	14	0	All right. But I guess my question was going to
5		The early guidelines cautioned against the trial of	15	*	whether you have taken that group of parameters
6	¥	labor where the estimated fetal weight was over	16		that I referred to where the primary cesarean
7		4,000 grams, correct?	17		section was for failure to progress -
	٨	Yes.			Right.
			18		-
-		And in 1984 I believe ACOG specifically said the	19	Q	where the estimated fetal weight was 4,000 grams
0		estimated fetal weight should be less than 4,000	20		or more and where oxytocin was used to induce labor
1		grams to be a candidate for VBAC. correct?	21		and analyzed the VBAC results in this group of
	A	What year was that?	22		women.
2					
	Q	'84. Again I don't know the specifics of what they said,	23 24		I think we have with the infants that the actual weight was over 4,000 grams and required oxytocin

i		Page 3	7		Page
1	о		1		MR. BOUGHTON: Yes.
2	-	recall?	2		MR. RYAN: Want to do that? Okay.
3	A	I'm unsure if we reported it. We have many	3		THE WITNESS: So I don't know that I can.
4		databases and I have published over a dozen papers;	14		I guess I could do that. If you're saying you want
5		so I'm not sure if that specific breakdown, that)		me to assume now for a moment that we have a new
6		specific sub subgroup of patients has been reported	6		technology and estimated fetal weights are accura
7		or not.	7		and we can assume -
8	Q		8	0	(BY MR. BOUGHTON) Fine, do that.
9	×	subgroup that Karen Edwards was in at the time of	9		- that the true weight was just under 4,000 grams,
10		her admission to the hospital on January 29th,	10		not the estimated weight, then I think in that
11		1995, correct?	11		category I would refer back to the paper I did that
12	A		E2		I published in 1989 where we actually knew t
13	<i>.</i>	known birth weights of over 4,000 grams. Her	13		birth weights and we could probably break that dat
14		status was only an estimated fetal weight at that	1		down.
14		time.	15		Now, I'm not sure that the paper broke it
15 16	ο		15		down that specifically by weight. I know we used
17	Q	group of women that had that type of history,	17		the categories less than 4,000, 4,000 to 4,500, and
		correct?	1		over 4,500 grams. And then we gave the outcomes as
18 19	A		18		far as maternal complications, fetal complications,
	A	MR. RYAN: We're not going to quibble	19		uterine rupture and success being it wasn't a
20 21		about the, you know	Æ0 21		vaginal birth or not. I don't have that paper with
21 22			22		me, but that's getting close to what you're asking
		MR. BOUGHTON: I hope not.	1		
23		MR. RYAN: It's below 4,000 grams, but I	B	~	for.
24		think we're in the same range.	24	Q	Yes. And I'm specifically asking if you have any
25		MR. BOUGHTON: I think the ultrasound was	25		feel for what the success rate would be if you
		Page 38	5		Page
1		within 21 grams of 4,800.	1		claimed those three factors, the primary cesarean
2		MR. RYAN: Well, I mean - but the way	2		section for failure to progress, the estimated
3		you're phasing your question is over 4,000 grams.	3		fetal weight of 4,000 grams and the use of oxytoc
4		But it's in the ballpark. I'm not - I don't think	4		to induce labor, if you put that group together?
5		it's any big deal.	S	Α	I would actually have to look at my paper, first of
6	Q	(BY MR. BOUGHTON) So are you prepared to say today	6		all, because I'm not sure exactly what our dat
7		what the success rate would be, based on your	7		showed. Do you happen to have that one? I think
8		research, experience, for women that are in that	8		that is actually - that's the paper here
9		category?	9		(indicating).
10	Α	Well, I have published, so this is in print, that I	ł	Q	1989?
11			11	A	···· ··· ·····························
12		fetal weight. There have been many studies done	12		your question.
13		not by myself but by experts in the field -	13		Yeah, we did not break down the data in
14		showing that the estimated fetal weight, when you	14		this paper specifically on outcomes as far as
15		get into this weight range, around 4,000 grams,	15		vaginal birth, I think, the way you're describing
16		becomes extremely inaccurate and it can often be	16		it.
17		off by a pound in either direction.	17		We said that oxytocin was used for
18	Q	Okay. I hear what you're saying about your opinion	18		induction or augmentation in 35 percent, 105 of the
19		with respect to that but my question was are you	19		301 of the fetal macrosomia group, and 45 percent
20		able to say whether you agree with the criteria or	20		of these patients delivered vaginally. Now, I
21		not, what the expected success rate would be for	21		believe -
		women who fit this subgroup that - as you have	l	Q	What percent? I'm sorry?
22				-	- · ·
22		described in	23	A	It's 45 percent delivered vaginally And I believe
			23 24	A	It's 45 percent delivered vaginally. And I believe that that is including the women that weighed

EL	W.	ARDS vs. KELLY Mult	i-Pa	ıge	^M BRUCE L. FLAMM, M.D., 5-29-9'
		Page 41	1		Page 43
1		those over 4,500 grams. So this is all the way up	11	Q	Like Karen Edwards?
2		to a few babies that were even over 5,000 grams.	2	A	Yes.
3		In that whole group all babies with true	3	0	Is it - are there any written protocols at Kaiser
4		birth weights over 4,000 grams who required	19 24 1	•	with respect to the use of an intrauterine monitor
5		oxytocin additionally, the vaginal birth rate was	\$ 5		in this type of labor?
6		45 percent.	6	A	I'm not familiar with any written protocols, no.
7	0	Would you agree that under the ACOG guidelines that	7	0	And the practice? Is it the practice to wait six
8	£	were in effect in January of 1995 that we have	8	£	or so hours after the spontaneous rupture of
9		referred to, macrosomia would be a relative	9		membranes before using an intrauterine monitoring
10		contraindication to VBAC?	10		device?
11	А	No, I wouldn't use the term "relative	11	Α	We often don't use them at all unless they're
12		contraindication".	12		indicated for some specific reason.
13	0	You have heard that term before, right, "relative	13	0	Now, I'm talking about in a case like
14	×	contraindication?	14	×	Karen Edwards'.
15	Δ	Yes.	15	Δ	Yes. No.
16	0	As distinguished from an absolute contraindication?		0	Want to stick with her facts. She has her history
17	Ā	Right.	17	X	that we know about.
18	0	Would you agree that in the present situation, that	18	Δ	Right.
19	×	is, Karen Edwards' situation, we have a woman who	19	Q	She's admitted because of pending macrosomia?
20		is a borderline candidate for VBAC?	м	A	Right.
21	Δ	No, I wouldn't agree with that at all.	21	0	She's being induced with Pitocin?
22	0	You agree that she had a previous cesarean section	22	× A	Yes.
23	×	for failure to progress?	23	Q	Okay. Let's just stick with these facts, if we
24	A	Correct.	.24	Q	can.
25	0	They planned to use oxytocin in this trial of	25	A	Yes.
		Page 42			Page 44
1		labor?	1	0	Are you saying there are situations where you don't
2	Α	Right.	2	•	use it at all?
3		And we talked about the ACOG guidelines that were	3	Α	Internal monitor, you're talking about?
4	•	in effect at the time of this delivery in January	4		Yes.
5		of '95, right?	5	Ă	Yes, absolutely, that is correct.
6	A	Yes.	6	0	What would those situations be?
7	0	Would you agree that certainly careful skilled	7	À	Probably the majority of situations.
8	•	observation is mandatory in a patient like	8	Q	And why?
9		Karen Edwards?	9	-	Well, the fetal monitoring the goal of fetal
10	A	Yes.	10		monitoring is to try to get an assessment of how
11	0	Are there at Kaiser written protocols that permit a	11		the fetus is doing. And if we can assess well with
12	×.	second year resident to monitor Pitocin induction	12		external fetal monitoring, we don't see any reason
13		in a patient like Karen Edwards in the absence of	113		to use internal monitoring.
14		the attending physician?	14	Q	And how do you know?
15	Α	I'm not familiar with any written protocols.	15		Well, for example, if we have a woman where we're
16	Q	So no, there aren't any that you know of?	16		monitoring the baby and we're seeing loss of signal
17	Ā	Written?	17		where more often than not we're not able to get any
18	Q	Yes.	18		recording back on the fetal monitoring strip, that
19	À	Not that I know of, written.	19		would definitely be an indication to go ahead and
20	0		20		put internal monitors. If we're picking up, if
21	•	man attanto	21		we're detecting the events with external
22	Α	Yes.	22		monitoring, we don't usually see any reason to go
:13	Q	And that's what? What is the practice?	23		to internal monitoring.
24	~				If you have a woman who through external monitoring
1			-	×	a les mus à comme alle environ accordent production production de

Saman and a state of the state			Multi	1 a	50	
	***		age 45	,	~	Pag
1	the term				Q	So if I understand what you're saying, Doctor,
2		RYAN: Hypertonic.		2		you're saying is that your practice in VBAC is no
3		BOUGHTON: Hypertonic contraction.		3		to use internal monitoring; is that correct?
ţ.	Thank y					No, not routinely.
5 Q		OUGHTON) Would that be an indication for	or	5	Q	So I am correct?
5		nonitoring?		6	A	You are correct.
7 A		re's two different things I guess I show	1	7	Q	
3		There's two different monitors, to	1	8		monitor tapes?
9	different	internal monitors, two different extern	mai	9	A	Yes.
)	monitor	3.		10	Q	And there are standards and guidelines that are
Q	Right.]]	11		accepted among your profession regarding the
A	With res	pect to the fetal heart monitor, if y	ou're	12		interpretation of these tapes?
	seeing d	ecelerations and you're seeing then	n. ji	13	A	Well, that's a really tough question to answe
	clearly, I	don't know that there's any need to p	ut 1	4		because it's a very it's a very difficult thi
	an intern	al monitor in.	I	5		to do. Many things we do in obstetrics are v
	If y	ou're having trouble seeing what's	(6		clear-cut, yes or no answers. The interpreta
	-	then yes, definitely you would want to		7		of fetal monitoring is not one of them.
		ternal fetal EKG, fetal scalp lead in	1	8	0	
		h regard to the pressure catheter, v	1	9	•	furnished to you, a copy of Deposition Exhibit
		do not use them in VBAC labors u	ł.			No. 4 (indicating)?
	-	nother reason to insert them.	1		A	I don't believe I received this, no.
		v, you mentioned the question abo	i (It would have been attached to Dr. Takyi's
		ic activity of the uterus. If that's	1	3	V.	deposition.
		, if we're concerned about the uter			٨	I have I have the deposition here. I'm just
;	-	if we're concerned if we're detect	i i		<i>P</i> %.	looking at it. I didn't see it attached to my
) 	dour vicy,			.) 		
	accumutal		ige 46	1		Page
		, then that would be an indication to p		1		copy.
0		nal pressure catheter.	1			Okay. Would you just take a moment and look
Q		ld you look for or what would be evidence	1	3		Deposition Exhibit No. 4?
		n that would cause you to do it?			A	Yes, I'm looking at that.
A		most common thing we would see is	4	5	_	Okay.
		t seeing a pattern that seems consis	1	-	-	Are the standards and guidelines set forth in
		abor. In other words, a woman comes		7		Exhibit No. 4 consistent with your education and
		or, we have an external pressure cathet	1	8		training?
		cems to be having extraordinary la	~ (9 /	4	Some but not all of them.
		ring seems to be in a lot of pain,	1	0 (Q	All right. And I guess it's important to know
	contracti	ons are coming and going every the	rec 1	1		which ones are not.
	minutes,	out on our TOCO or external monitor, w	re're II	2 /	4	Well, on the bottom there's a graph here that says
	not seeing	much of anything. Then we would sa	y 1:	3		"Principles of Grading Late & Variable
	this does	't seem to be reflecting what's actually	y L	4		Decelerations".
	going on a	and we want to put as internal pressure	: 1:	5 (2	Yes?
	catheter		14		-	Particularly with regard to where they talk about
Q	Are there	any other circumstances under which	1			late decelerations, mild, moderate and severe, my
~		nt to use it?	, , , , , , , , , , , , , , , , , , ,			understanding is that all of the recent literati
А		se internal pressure catheters if a wom				indicates that this does not make sense.
**		to progress and we're concerned th				What would be the current thinking in terms of
	-	we're going to be possibly doing				interpreting late decelerations?
		section for the indication of failure				
						Well, there are many things that aren't shown on
	•	To document that we'll often put ressure catheter in to more accurat				here. The only thing that they're talking about the set of the set

	W	ARDS vs. KELLY Mul		age	
		Page 4	9		Page 5
1	Å	- and how far that drops. So there's only one	1		together in this. The point I was just making is I
2		small parameter of how you interpret decelerations.	2		don't agree that you have a severe situation which
3		But they	3		is – they're calling it severe –
4	Q	Excuse me, but insofar as that goes, is that	·4	ⁱ Q	Yes.
5		correct as according to your understanding, even	5	A	- based just on the how far the heart rate goes
6		though incomplete?	6		down with the late deceleration.
7	Α	No. That is what I'm pointing out.	7	Q	Other factors would have to be taken into
8	Q	Okay.	8		consideration, including those you just listed,
9	A	I don't even think - this is not consistent with	9		correct?
10		the recent literature that I have read.	10	A	Right.
11	0	What would you say the beats per minute variables	11	0	All right. Any other problems with Exhibit No. 4
12	x	are?	112	•	that you see?
13	Α		13	A	Well, I have just - again most of the stuff that
14		per minute. In other words, I think if you were to	14		is above seems to make sense. The section on
15		ask many experts in interpreting fetal monitoring,	15		periodic changes seems to make sense. The section
16		they would say that late decelerations don't	16		on the baseline rates seems to make sense. But
10		necessarily correlate at all. I mean, the	17		this whole bottom section I'm not sure is really
18		significance of the late deceleration with the drop	18		up-to-date. They talk about variable decelerations
19		in beats per minute.	19		and they're talking about the duration. So in the
20	0	What would they tell you about late decelerations	20		same table they're comparing the lates with the
21	Y	and how you recognize them in the fetal monitoring	1		
			21		variables, they're talking about the length of the
22		tapes?	22		variable deceleration and not talking anything
23	Α	Wait a second. You're asking me how you would	23		about its depth. And they're talking about the
24		recognize them or are you asking about their	24		depth of the late deceleration and not talking
25		grading?	25		about anything about its length.
1	~	Page 50	1	~	Page 52
1	Q	Grading?		Q	Its duration?
2	A	As far as their grading, that is the point I'm	2	Α	Yeah, how long it lasts. So I just am not sure
3		contesting here. This is really not so much having	3	~	that I am comfortable with this bottom table.
4		to do with of the recognition of a late	4	Q	Fair enough.
5		deceleration. In other words, a late deceleration	ſ		What would be a reliable source, in your
6		that drops to more than 45 beats per minute, I	6		opinion, in terms of the interpretation of late and
7		might even be skeptical if that's a late	7		variable decelerations that is current?
8		deceleration. Typically, late decelerations are	8		There are many sources. Certainly there have been
9		very symmetrical, they're uniform, smooth. And	9		many books written on fetal monitoring. There have
10		it's very unusual to see late decelerations that	10		been hundreds of articles written. And ACOG has
11		drop to 45 beats per minute or more.	If		published information on interpretation of fetal
12		But they're calling that on this graph	12		monitors from —
13		"severe", and I think some of the earlier books and	13	Q	So give me one source.
		earlier literature certainly broke them down	14		MR. RYAN: Objection to the form of the
14		similarly to variable decelerations as they do in	15		question.
		premium to a mineral deservations as may do In			THE WITNESS: I guess what I'm saying -
15		this graph.	16		
15 16	Q		16 17		thank you. I guess what I'm saying is I'm not
15 16 17	Q	this graph.			•
15 16 17 18	Q	this graph. So if I understand what you're saying, the - it's	17		thank you. I guess what I'm saying is I'm not
15 16 17 18 19	Q	this graph. So if I understand what you're saying, the - it's no longer accepted to grade late decelerations on	17 18		thank you. I guess what I'm saying is I'm not clear that there's - I can give you any one authoritative or reliable source. I think that we,
15 16 17 18 19 20	-	this graph. So if I understand what you're saying, the - it's no longer accepted to grade late decelerations on the basis of how much the heart rate goes down? I think that's not one of the major factors.	17 18 19 20		thank you. I guess what I'm saying is I'm not clear that there's I can give you any one authoritative or reliable source. I think that we, as obstetricians and gynecologists, reach our
15 16 17 18 19 20 21	A	this graph. So if I understand what you're saying, the it's no longer accepted to grade late decelerations on the basis of how much the heart rate goes down? I think that's not one of the major factors. That today we evaluate them or recognize their	17 18 19 20 21		thank you. I guess what I'm saying is I'm not clear that there's - I can give you any one authoritative or reliable source. I think that we, as obstetricians and gynecologists, reach our conclusions by looking at dozens of sources.
14 15 16 17 18 19 20 21 20 21 22	A Q	this graph. So if I understand what you're saying, the it's no longer accepted to grade late decelerations on the basis of how much the heart rate goes down? I think that's not one of the major factors. That today we evaluate them or recognize their presence based on whether they occur in the cycle?	17 18 19 20 21 22	Q	thank you. I guess what I'm saying is I'm not clear that there's I can give you any one authoritative or reliable source. I think that we, as obstetricians and gynecologists, reach our conclusions by looking at dozens of sources. (BY MR. BOUGHTON) Okay. You have mentioned ACOG
15 16 17 18 19 20 21 21 22	A	this graph. So if I understand what you're saying, the it's no longer accepted to grade late decelerations on the basis of how much the heart rate goes down? I think that's not one of the major factors. That today we evaluate them or recognize their	17 18 19 20 21	Q	thank you. I guess what I'm saying is I'm not clear that there's - I can give you any one authoritative or reliable source. I think that we, as obstetricians and gynecologists, reach our conclusions by looking at dozens of sources.

EL)W.	ARDS vs. KELLY Mul	- Contraction of the local division of the l	age	
		Page 5	3		Page 55
1		than just saying there are sources out there?	1		of the tapes, that basically what you have
2	A	a a a a a a a a a a a a a a a a a a a	2	i	highlighted are the notations that either the nurse
3	Q		3		that I believe the nurses made on the tapes?
4	A	in literature?	4	A	Yes, very often I will highlight nursing comments
5		I mean, there have been hundreds.	5		or if a physician makes a comment on the strip, I
6	Q	That is what I mean. What literature? What	6		will highlight that.
7		textbooks? What –	7	Q	All right. The only time that I saw a mark on
8	A	The American Journal of Obstetrics & Gynecology.	8		either the fetal heart rate or the contraction
9		There have been many - dozens, probably hundreds	9		pattern was at Panel 28574.
10		- of papers written on fetal monitoring. The	10	A	Yes, I see that.
111		Journal of Obstetrics & Gynecology. Again there	11	Q	Do you know what you were or why you were marking
112		have probably been hundreds of papers written on	112	-	that particular contraction?
13		interpretation of fetal monitoring.	13	A	I was - at that point it was looking to me like
14	Q		1		she may have begun pushing at that point.
15	Q	could refer me to that you have consulted and you	15	0	
16		feel that it is pertinent to this subject.	16	×	the records where you have highlighted any of the
17	٨	I'm not sure I can refer you to any one single	17		fetal heartbeat patterns or contraction patterns.
18	A	article that sets the standards for fetal	1		That's probably correct.
19			18	A	
1	~	monitoring.	19	Q	Have you been asked to do anything else with
20	Q	So you can't?	20		respect to the fetal heart tapes and contraction
21		I can't, no.	21		tapes, fetal monitoring tapes, by Mr. Ryan?
22	Q	Now, I take it you have reviewed the fetal monitor	22	A	
2'3		tapes in this case?	23		with them?
24	Α	Yes, I have.	24	Q	Anything further than you have already done with
25	Q	And you have observed the presence of	25		them?
		Page 5	4		Page 56
] 1		decelerations?	1		MR. RYAN: Other than review them and
2	A	Yes, I Rave.	2		provide an expert opinion related to their
3	Q	Did you mark the tape or make any notes concerning	3		significance?
4		the incidents of decelerations?	4		MR. BOUGHTON: Yes. I mean - excuse me.
5	Α	I know the terminology, "Mark the tape" - I	5		Good point.
6		highlighted things. I made several highlights or	6	Q	(BY MR. BOUGHTON) In terms of marking or preparing
7		my copy. I don't believe that I marked in terms of	7		any exhibits or anything of that nature?
8		writing any comments.	8	A	No.
9	0	And when you highlighted, what were you	9	Q	Okay. If you are asked to do so, then I would
10	~	highlighting?	10		simply ask that we be furnished a copy with
11	А	As with all the records I review, I - any time	11		anything that you do in terms of marking the tapes.
1		anything strikes my interest, I highlight it in	12	A	
112			l l		Did you review the labor and delivery record that
12		vellow so that I can refer back to it mickly			
13	Ω	yellow so that I can refer back to it quickly.	13	•	
13 14	Q	Could I just take a look at your copy?	14		was prepared by the nurses?
13 14 15	A	Could I just take a look at your copy? Sure.	14 15	А	was prepared by the nurses? Yes.
13 14 15 16	A	Could I just take a look at your copy? Sure. Thank you.	14 15 16	А	was prepared by the nurses? Yes. Did you note that beginning at about 1:00 p.m. the
13 14 15 16 17	A	Could I just take a look at your copy? Sure. Thank you. Couple of places appears that you may have	14 15 16 17	A Q	was prepared by the nurses? Yes. Did you note that beginning at about 1:00 p.m. the nurses note the decelerations?
13 14 15 16 17 18	A Q	Could I just take a look at your copy? Sure. Thank you. Couple of places appears that you may have written the time next to the military time?	14 15 16 17 18	A Q A	was prepared by the nurses? Yes. Did you note that beginning at about 1:00 p.m. the nurses note the decelerations? Yes.
13 14 15 16 17 18 19	A Q	Could I just take a look at your copy? Sure. Thank you. Couple of places appears that you may have written the time next to the military time? Yes, that is one thing that I occasionally do	14 15 16 17 18 19	A Q A Q	was prepared by the nurses?Yes.Did you note that beginning at about 1:00 p.m. the nurses note the decelerations?Yes.And continued to record decelerations at every
13 14 15 16 17 18 19 20	A Q	Could I just take a look at your copy? Sure. Thank you. Couple of places appears that you may have written the time next to the military time? Yes, that is one thing that I occasionally do because still in spite of 20 years of looking back	14 15 16 17 18 19 20	A Q A Q	 was prepared by the nurses? Yes. Did you note that beginning at about 1:00 p.m. the nurses note the decelerations? Yes. And continued to record decelerations at every entry and basically until the child was born at
13 14 15 16 17 18 19 20 1 t	A Q	Could I just take a look at your copy? Sure. Thank you. Couple of places appears that you may have written the time next to the military time? Yes, that is one thing that I occasionally do because still in spite of 20 years of looking back and forth between military time and our standard	14 15 16 17 18 19 20 21	A Q A Q	 was prepared by the nurses? Yes. Did you note that beginning at about 1:00 p.m. the nurses note the decelerations? Yes. And continued to record decelerations at every entry and basically until the child was born at 9:55 p.m.?
13 14 15 16 17 18 19 20 1 t 22	A Q	Could I just take a look at your copy? Sure. Thank you. Couple of places appears that you may have written the time next to the military time? Yes, that is one thing that I occasionally do because still in spite of 20 years of looking back and forth between military time and our standard time, I still have trouble with times? So just to	14 15 16 17 18 19 20 21 22	A Q A Q A	 was prepared by the nurses? Yes. Did you note that beginning at about 1:00 p.m. the nurses note the decelerations? Yes. And continued to record decelerations at every entry and basically until the child was born at 9:55 p.m.? I noticed comments in the nursing notes, yes.
13 14 15 16 17 18 19 20 1 t 22 23	A Q	Could I just take a look at your copy? Sure. Thank you. Couple of places appears that you may have written the time next to the military time? Yes, that is one thing that I occasionally do because still in spite of 20 years of looking back and forth between military time and our standard time, I still have trouble with times? So just to make things crystal clear, sometimes I will write	14 15 16 17 18 19 20 21	A Q A Q A	 was prepared by the nurses? Yes. Did you note that beginning at about 1:00 p.m. the nurses note the decelerations? Yes. And continued to record decelerations at every entry and basically until the child was born at 9:55 p.m.?
13 14 15 16 17 18 19 20 1 t 22	A Q	Could I just take a look at your copy? Sure. Thank you. Couple of places appears that you may have written the time next to the military time? Yes, that is one thing that I occasionally do because still in spite of 20 years of looking back and forth between military time and our standard time, I still have trouble with times? So just to	14 15 16 17 18 19 20 21 22	A Q A Q A Q	 was prepared by the nurses? Yes. Did you note that beginning at about 1:00 p.m. the nurses note the decelerations? Yes. And continued to record decelerations at every entry and basically until the child was born at 9:55 p.m.? I noticed comments in the nursing notes, yes.

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	an a	Page 5	7		Page 59
1	A	I don't know that I made a point-by-point	I		the nurses this morning, is there, that you can
2		comparison of everything that the nurses said.	I 2	1	recall?
3		would have to actually go through and look at what	3	A	Well, I would hesitate to say that because perhaps
4		every nurse said, so I'm not sure I can answer that	4	Ç.	there's something that a nurse wrote in one of the
5		without doing that.	5		little notes - and there's hundreds of pages of
6	Q	In terms of them recording decelerations, did you,	6	i	documentation here that I would disagree with.
7		in the course of your review, come to any point	7		I'm haven't memorized hundreds of pages of
8		that you can recall where you took exception to	8	:	documents here.
9		that?	9	Q	Are you familiar with the diagnostic technique of
10	A	Again we would have to look at every note, what	10	•	scalp pH?
11		every nurse said about every deceleration because	11	A	Yes, I am.
12.		very often a nurse may interpret one particular	12		And did you receive a copy of Deposition Exhibit (
13		deceleration a certain way and I might disagree	13	-	with the materials that you were supplied?
14		with that. So I can't say categorically that I	14		I don't believe that I received this (indicating).
15		agreed with everything that every nurse said or	15		This is simply an illustration of the technique
16		that I disagreed with some of the things. I don'		-	used for fetal scalp blood sampling?
17		think I can say that.	117		Yes, but I don't think I received it.
18	Q	But you can say there's nothing that stands out in	18		
19	*	your mind today in terms of a difference you had	119		similar to this in the past?
20		with them; is that fair?	20		Yes.
21		MR. RYAN: well, I'm going to object to	21	0	
22		the form of the question because it is extremely	22	~	understand it, in the 1960s?
23		broad. You are talking about a monitor strip that	23		Yes.
24		is -	24	0	And can be used to obtain information about the
25		MR. BOUGHTON: Several hours long.	25	~	well-being of the baby?
20		Page 5	+		Page 60
1		MR. RYAN: Began from 1:00 to until almost	11	A	Ycs.
2		10:00. What, eight or nine hours? You have got	2		Would you agree that an indication for use of the
3		the nurse charting on the record itself about every	3	-	scalp pH is persistent abnormal patterns in the
4		two hours and charting variable decelerations, you	4		fetal heart monitor?
5		know. I think the question at this point is a	5	A	It can be an indication for the use of it, yes.
6		little bit broad.	6	Q	Were you provided a copy of a Deposition Exhibit 7
7		MR. BOUGHTON: Admittedly it is.	7	Ŷ	for your review?
8	0	(BY MR. BOUGHTON) But there's nothing - no	8		MR. RYAN: Let me object to the foundation
9	Ŷ	difference of opinion that stands out in your mind	9		for all those exhibits. There's no foundation for
10		this morning as we're sitting here, I take it?	10		use in cross-examination.
11	Α	I think if there was a specific point that you	11		But go ahead.
12	~	would like to look at what a nurse said about a	12		THE WITNESS: I don't believe I received a
		certain deceleration at a certain time and ask ma	i		copy of this, no (indicating).
13 14			1		
	~	if I agree or disagree with that -	14	Q	(BY MR. BOUGHTON) This is an algorithm for
15		I'm trying to avoid that.	15		management of abnormal fetal heart tracing?
16	Α	- I can do that. But I can't say that I'm in 100	16	A	Yes.
17		percent full agreement or disagreement with	17	Q	Have you seen this type of algorithm in the past?
I8		everything that was written over the course of this	18	A	Yes, I have.
19	~	many hours of labor.	19	Q	Have you, in fact, even seen this one?
20	×.		20	Α	I don't think I have seen this one. I may have.
21		That is a tough one to answer	21		Again over the years I have seen many algorithms
22	Q	You have said that a couple times and I understand	22		relating to fetal scalp monitoring. I may have
23		that, bur you can also agree or say, I think it's	23		scen this one in the past.
24		fair to say, there's nothing that stands out in	24	0	Is this a guideline that is used by obstetricians

	J 44 .	ANDS VS. NELL I MUI	1-13	ųс	DKUCE L. FLAMM, M.D., 3-29-9
		Page 61	I		Page 63
1		scalp monitoring?	I		used, there have been articles showing that in the
2	A	It may be used by some.	2		incipient stages of doing the scalp pH it was found
3	Q	,	3		that when the baby's head was stimulated, either
4		by obstetricians and gynecologists?	4		with a finger or with an instrument, if there was
5	A	Well, again I would have to say accepted by what	5		an acceleration, the pH value is uniformly good.
6		obstetrician/gynecologist?	6		And I think based on those studies years ago many
7		MR. RYAN: Where is it from?	7		doctors abandoned doing scalp pHs.
8		MR. BOUGHTON: Well, that was in the	8	Q	Can you direct me to an article?
9		it was in the Takyi deposition, I believe.	9	A	I don't have the reference offhand. I don't
10		MR. RYAN: I don't know, but you brought	10		remember the reference for it.
11		it to the deposition. There's no foundation for	11	Q	Have you written on this subject?
12		the use of the document. You may have drafted the	12	A	I'm searching my memory, but I don't believe I have
13		document for all we know.	13		specifically written on scalp pH.
14		MR. BOUGHTON: Well, no, I guarantee you	14	0	Then I take it you have formed an opinion as to
15		that I did not draft it.	15	-	whether or not a scalp pH was indicated in this
16	Q	(BY MR. BOUGHTON) Well, can you say whether or not	16		case?
17		this type of a guideline is accepted by	17	A	Yes.
18		obstetricians and used by them in their practice?	18	Q	And your opinion is that it was not?
19	A	I can say that there may be be some that are still	19	À	Correct.
20		using this guideline or similar ones, but maybe I	20	Q	And the basis for that is you don't believe that
21		can save some time by telling you that I personally	21	•	it's a reliable technique to determine the
22		have not performed a scalp pH in over five years	22		well-being of the baby?
23		and I don't think any of my colleagues have	23	A	Well, I still think in some cases the scalp pH may
24		performed one in many years either.	24		be a useful tool. I know that many hospitals
25	Q	And why is that?	25		around the country have discarded the
		Page 62		energe de la company de la	Page 64
1	A	I feel that the whole concept of doing scalp pH is	1		instrumentation. We no longer have our scalp pH
2		really going out of vogue because it's felt that	2		testing equipment. I'm not sure, to be honest,
3		the reliability is not there, there are problems	3		with you, if this hospital even has the equipment
4		often with obtaining the sample and getting pure	4		to do scalp pH testing so I wouldn't want to say
5		fetal blood which is not mixed with maternal blood.	5		categorically that the scalp pH testing is
6		I was trained by the physicians who developed the	6		worthless, it's not reliable. But I think in the
7		fetal scalp pH testing and, to the best of my	7		last several years the use has really fallen off.
8		knowledge, even some of those doctors no longer use	8		It's become very uncommon in this country to do
9		it or recommend it.	9		scalp pH testing.
10	Q	And those doctors would be who?	-	0	You said that there are some cases where it might
11		Well, I have trained with Dr. Quilligan, and I	11	X	be a useful tool. What types of cases do you have
12		haven't talked to him specifically recently about	12		in mind?
13		this, but he was one of the fathers of the fetal		Α	If a hospital was still set up to do scalp pH
14		scalp pH testing.	14		testing and if a doctor was concerned about a
15	Q	Quilligan spelled	15		pattern and wanted to get more information, it
16	Ā	Q-u-i-l-l-i-g-a-n. Edward Quilligan	16		would be a reasonable thing to do.
17	Q	Where is he practicing?		^	Given perhaps the difference in your practice at
18	A	University of California at Irvine		Q	Kaiser and the practice at Sparrow Hospital in
19	0	Wave there been articles in the literature that	18 19		Lansing, are you able to tell us what the standard
20	Q	hove discussed the use of fetal scalp monitoring	20		
21		· · · · · · · · · · · · · · · · · · ·	20 21		of care is with respect to fetal scalp monitoring
22					today in the United States?
					That's again a difficult one to answer because the
23	А	-	23		standard refers to what reasonable physicians are
24		difficulties with it, And as opposed to	24		doing around the country, and from my visits to

		ARDS vs. KELLY Mult	the second s	age	
		Page 6.	5		Page
1		told me that they haven't done scalp pHs in years.	1		to-
	-	And ACOG?	2		MR. BOUGHTON: within the context of this
3 /	A	I'm not familiar with any recent documentation	3		cas¢ —
4		about scalp pH testing.	4		MR. RYAN: Let's stick to the
5 (Q	Was there ever a guideline on that subject?	5		MR. BOUGHTON: - is what I'm trying to
б "	A	I know it was mentioned. I don't know if there was	6		do.
7		a specific guide point on scalp pH testing.	7		MR. RYAN: Let's stick with this case.
8 (Q	We have talked about the need for careful	8		Are you asking him is there anything in this case
9		monitoring in a patient like Karen Edwards. Under	9		that occurred that would have led him to recommend
0		what circumstances do you believe a cesarean	10		cesarean section? Is that the question?
1		section should be considered by the attending	11		MR. BOUGHTON: No. I'm pretty sure his
2		physician?	12		opinion is that he would not have recommended a
3 /	A	Wow, that's an extremely broad question. There are	13		cesarean section -
4		literally dozens of things that might lead us to	14		MR. RYAN: Right.
5		consider doing a cesarean section.	15		MR. BOUGHTON: - on this case, right,
	Q	Having in mind Karen Edwards' case, sticking with	16		based on the information you have?
7	-	her presentation, her history, her facts.	17		THE WITNESS: Yes.
	A	I'm not sure I can answer the question as it was	1	Q	(BY MR. BOUGHTON) But what I'm trying to get a
9		put to me. Could you maybe - is there any way			feel for is what could have occurred within the
0		that you can ask me that question again maybe in a	20		context of her presentation and her history that
1		little bit different format?	21		might have caused you to consider a cesarean
	Q	I'll try. I don't know if I'll be successful or	22		section?
3	×	not.	23	Α	Well, there - I can give you some examples.
4		But you have reviewed the materials that	24	Q	Okay.
5		you have concerning her trial of labor?	25	Ă	Since this specific patient was a VBAC candidate,
*		Page 66			Page 6
1 4	A	Yes.	1		she had a prior cesarcan section, if, for example,
	2 Q	You have seen the fetal monitor tapes and you have	2		she had reached five centimeters dilatation, began
3	≪.	reviewed her deposition, her husband's deposition,	3		having heavy vaginal bleeding, the fetal heart rate
, 4		the two physicians' depositions. Under what	4		had fallen precipitously, then I would have been
5		circumstances in this case, if you had been the	5		thinking very seriously at that point, "Could this
5		attending physician, would you have considered	6		be a uterine rupture?", and I would have
, 7		doing a cesarean section?			- •
		8	7		recommended cesarean section at that point. And we
	A .	Let me try to answer that question. With that,	8		could come up with a dozen other scenarios fo
9		saying that - I'm assuming that I was the	9		potential reasons why in a similar patient we might
)		physician caring for this with that assumption	10	~	recommend a cesarean delivery.
		that I was the physician caring for Miss Edwards	11	Q	Do you have in your mind a threshold or a certain
		during this labor, I would be wanting to weigh the	12		set of criteria that suggest to you the need to
2		benefits versus the risks of an operative delivery,	13		consider cesarean section in VBAC candidates?
2 3		•	1		
2 3 1		cesarean section in this case. And if I ever felt	14		I think we all "we" meaning obstetricians and
2 3 4 5		cesarean section in this case. And if I ever felt at any point during the labor that the baby would	14 15		gynecologists - have a threshold that we reach
23		cesarean section in this case. And if I ever felt at any point during the labor that the baby would do better and the mother would do better to deliver	14 15 16		gynecologists have a threshold that we reach Very seldom is it just one factor that goes into
2 3 4 5 7		cesarean section in this case. And if I ever felt at any point during the labor that the baby would do better and the mother would do better to deliver by cesarean section, at that point I would	14 15 16 17		gynecologists have a threshold that we reach Very seldom is it just one factor that goes into the decision to perform a cesarean. There are
		cesarean section in this case. And if I ever felt at any point during the labor that the baby would do better and the mother would do better to deliver by cesarean section, at that point I would recommend it.	14 15 16 17 18		gynecologists have a threshold that we reach Very seldom is it just one factor that goes into the decision to perform a cesarcan. There are exceptions.
2 3 5 5 7 8	2	cesarean section in this case. And if I ever felt at any point during the labor that the baby would do better and the mother would do better to deliver by cesarean section, at that point I would recommend it. And in <i>terms</i> of events that would have occurred to	14 15 16 17 18 19		gynecologists have a threshold that we reach Very seldom is it just one factor that goes into the decision to perform a cesarean. There are exceptions. The one I talked about would be one
	2	cesarean section in this case. And if I ever felt at any point during the labor that the baby would do better and the mother would do better to deliver by cesarean section, at that point I would recommend it. And in <i>terms</i> of events that would have occurred to cause you to reach that conclusion, what sort of	14 15 16 17 18 19 20		gynecologists - have a threshold that we reach Very seldom is it just one factor that goes into the decision to perform a cesarcan. There are exceptions. The one I talked about would be one exception. Heart rate goes down, does not go back
2 3 5 7 3 9 0	2	cesarean section in this case. And if I ever felt at any point during the labor that the baby would do better and the mother would do better to deliver by cesarean section, at that point I would recommend it. And in <i>terms</i> of events that would have occurred to cause you to reach that conclusion, what sort of things are we talking about?	14 15 16 17 18 19		gynecologists have a threshold that we reach Very seldom is it just one factor that goes into the decision to perform a cesarcan. There are exceptions. The one I talked about would be one exception. Heart rate goes down, does not go back up. You turn the woman on her side and it doesn't
2 3 5 7 3 0 0	2	cesarean section in this case. And if I ever felt at any point during the labor that the baby would do better and the mother would do better to deliver by cesarean section, at that point I would recommend it. And in <i>terms</i> of events that would have occurred to cause you to reach that conclusion, what sort of	14 15 16 17 18 19 20		gynecologists - have a threshold that we reach Very seldom is it just one factor that goes into the decision to perform a cesarcan. There are exceptions. The one I talked about would be one exception. Heart rate goes down, does not go back
1 2 3 4 5 5 6 6 7 7 8 8 9 9 0 1 1 2 2 3	2	cesarean section in this case. And if I ever felt at any point during the labor that the baby would do better and the mother would do better to deliver by cesarean section, at that point I would recommend it. And in <i>terms</i> of events that would have occurred to cause you to reach that conclusion, what sort of things are we talking about?	14 15 16 17 18 19 20 21		gynecologists - have a threshold that we reach Very seldom is it just one factor that goes into the decision to perform a cesarcan. There are exceptions. The one I talked about would be one exception. Heart rate goes down, does not go back up. You turn the woman on her side and it doesn't

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		Page 6	9		Page
1		cases there are many factors that we're weighing in	1		consideration and then try to determine why
2		our mind at any given moment, and it's hard to	2		patient's asking for the cesarean and then put that
3		define for any given obstetrician what would make	3		data along with all the medical data at the time to
4		them cross the threshold and say, "Okay, now I'm	'4'		help come to the decision.
5		going to go in the room and say, Mrs. 'X', you need	5	Q	So what say, if any, does the patient have under
6		a cesarcan section right now".	6		these circumstances?
7	Q	The problem is, isn't it, Doctor, that if you make	7	Α	Well, the patient certainly has input, but I think
8		the threshold too high, there's a danger of uterine	8		the way I would address that is to say that ow
9		rupture or injury to the baby?	9		the course of my career I have had hundreds
10	A	Well, that is an interesting concept. We're always	10		women literally hundreds of women demand a
11		weighing the risks versus the benefits to both the	111		cesarcan section at some point during their labor.
12		mother and the baby. We try to do the best job we	12		And generally I don't rush them to the operating
13		can to ensure that the outcome is going be a	13		room. And I don't think that makes me a bac
14		healthy baby and healthy mother. If we lower the	14		doctor. I think that makes me a good doctor.
15		threshold, we could section everybody, we could	15	0	So the request of the patient's just simply a
16		just operate on everybody. We probably would lose	16	Y	factor to be considered by the attending physicia
17		a lot of mothers that way from major complications	117		who is taking responsibility for making the
18		also. We would probably do a little bit better	18		ultimate decision?
19		with the fetal outcomes.	19	Α	
20		On the other hand, as you pointed out, if	20	~	patient's really demanding is relief. She may be
21		we raise the threshold to the fact we almost never	21		in - let's face it -
22			22	~	Pain?
	~	do cesareans, that would not be a good idea either.	1	~	
23	Q	You have seen the depositions of the plaintiffs in	23	Α	labor can be a very difficult thing to go
24		this case, Karen and Joe Edwards, and their	24		through. Over the years of the hundreds of wome
25		testimony that they, in fact, asked Dr. Kelly to do	25		that have demanded a cesarean section when I have
		Page 70			Page
I		a cesarean section during the course of this labor?	1		been caring for them, most of them are really
2		Do you recall that?	2		demanding help. They want to not be suffering.
3	Α	Yes.	3		Very often I will give them pain medication, give
4	Q	If the jury finds that, in fact, they did make that	4		them an epidural and ten minutes later they don't
5		request of Dr. Kelly, what does the standard of	5		want the cesarcan, they are very happy and go on
б		care require of Dr. Kelly under those	6		have a vaginal birth.
7		circumstances?	7	Q	Based on your reading of the literature and your
8	A	The standard of care would require that Dr. Kelly	8		experience in the practice of obstetrics, what is
9		would interpret those requests in light of what was	9		the median duration of the second stage of labor
0		going on with the labor.	0		for women in their first pregnancy?
1	0	Okay. What do you mean by that?	I	A	This would depend very much on whether or not t
2		Well, I'll get right to the point. The question	2		woman had an epidural.
3		that seems to be coming up is if a woman in the	3	0	Considering that we're including women who are
4		course of her labor says, "Doctor, I want a	4	×	given epidurals in our group.
5		cesarcan section right now" - we will even pass up	5	Å	With an epidural the second stage can often l
5 6		whether she said, "I think I might like one" or "I	6	£"#	three or four hours and be within the range of
0	c	would like to". She says, "I want a cesarean now",	7		normal.
~~	. 450			~	
		the question that comes up is does the doctor then	8	Q	Okay. I'm asking what the median
8		tell the nurse to open the operating room? And my	9		MR. RYAN: Well, object to the form of the
8 9		feeling is that is not correct.	0		question. Doesn't have any relevance if you don
8 9 0			II		assume an epidural as we haw had in this case.
8 9 0	Q	Okay, that is what I want to find out. What does	l		
8 9 0 1 2	Q	the standard of care require under those	а		But go ahead.
.7 8 9 0 1 2 3	Q	-	а 3		But go ahead. MR. BOUGHTON: No, I'm including an

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		Page 73	5		Page
1		number in my head for the median data for a woman	1	A	I believe the resident's note says that he was able
2		with an epidural in place.	2		to rotate from direct OP to an OT or occiput
3	Q	(BY MR. BOUGHTON) Isn't 50 minutes what has been	3		transverse position.
4		published in the textbooks?	4	Q	And in terms of the ultimate delivery of the baby,
5	A	It may have been published somewhere.	5		do you know what position it was in?
6	Q	Williams, for example?	6	A	I didn't see the $-I$ did not see the position the
7	Α	May have been published. Certainly not consistent	7		baby delivered in.
8		with my experience.	8	Q	Well, you weren't there
9	Q	In this case the second stage of labor was at least	9	A	Correct.
0		two hours and twenty-five minutes and perhaps as	10	Q	- but looking in the medical records?
		long as three hours, depending on how you interpret	11	A	Let me real quickly look at the delivery note.
12		the records as to when Karen Edwards became fully	12	Q	Well, perhaps I can save you the trouble.
13		dilated, correct?	13	-	Are you aware of the fact that there's a
4	Α	It seemed to me somewhere in the order of two to	14		conflict in the record as to whether the baby was
5		two and a half hours.	15		delivered in occipital anterior or occipital
6	0	All right. And would you agree that this was a	16		posterior position?
7	*	prolonged second stage of labor?	17	A	On the delivery record it says "OA".
8	Δ	No, not at all.	18		Right.
9	ō	In fact, that was how it was described in the	19	Ă	Which would mean occiput anterior. I didn't pick
0	×	medical records by the neonatologist, correct, as a	20	-	up the conflict, if there was one.
1		prolonged second stage of labor?	21	0	Again the neonatologist says, "Occipital
2	٨	Neonatologists often describe things in a very	22	Ŷ	Posterior".
.3	a	interesting fashion, but they generally have had no	23		You didn't see that
		obstetrical training.	23		I did not notice that.
:4 :5	~	Well, whether that is the case or not, that is, in	24 25		- conflict?
	Q			<u> </u>	
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1		fact, how they described it, correct?	I		If, in fact, the attempt to rotate was
2		Yes.	2		successful at 8:30, why did the second stage of
3	Q	And certainly they were disinterested observers as	3		labor go on for an additional hour and a half after
4		compared to Dr. Kelly and yourself, right?	4		that?
5	A	Well, I don't know that I would say disinterested.	5		Well, that would still be very typical.
б		That makes them sound in some way vile. But my	6	•	Why?
7		point was just that most neonatologists really have	7		With a first baby and an epidural in place, ver
8		had no obstetrical training except maybe rotating	8		often the second stage can go on for two, three
9		through OB for a few weeks in medical school.	9		four hours, regardless of whether the baby is OA or
0	Q	This baby presented in the occipital posterior	10		OP.
I		position, correct?	11	Q	But if the woman - now, I assume that anything i
2	Α	Yes.	12		possible, but in this situation you have a woman
3	Q	And the second year resident attempted to manually	13		who is receiving the oxytocin, who is having good
4			14		contractions - right? According to the records?
5	A				Yes.
5		And that, as I understand it, was done between 8:30			Who is fully dilated?
7				-	Yes.
3					Why in this situation, if the presentation is
9 9			19		proper, would it go on for an hour and a half?
	0				There are many things that contribute to the length
)	Y				· • •
l		\ \	21		of the second stage. Perhaps the biggest is the
•	Α	Yes, that is what my notes show, correct, at around	22		woman's pushing efforts. Some women are able to
		9-20			
2 3 1		8:30 p.m. Do you know, based on your review of the records,	23		push better than other women. Depending on how much the epidural is still working, even a woman

للاين م 	a 44	ARDS vs. KELLY Mul	Concernment of	age	
		Page 7	1.		Page
l	~	the baby out.	1		have been to Lansing as a child. I grew up in the
2	Q		2		Chicago area.
3		Karen Edwards in this case?	3		Okay. Are you acquainted with Dr. Kelly?
4	۸	That's very difficult to answer without actually	4	A	
5		being in the room. That is the type of thing where	5	Q	Do you know if at Kaiser the obstetrical department
6		it really is helpful to be there and sec.	6		has any written guidelines concerning VBAC?
7	Q	Based on the information you have in the monitor	7	A	I'm not aware of any written guidelines.
8		tapes, were you able to make any assessments of	8	Q	And same question with respect to Pitocin
9		that at all?	9		induction.
10	A	Well, you could see areas where she's pushing and	10	A	I believe we do have some type of guidelines for
11		areas where she's not pushing, but again it's very	11	,	Pitocin, yes.
12		difficult to assess how well the woman is pushing	12	Q	
13		from a monitor strip.	13	Ā	
	_	You say that there were areas where she was not	1	A	certain we don't have any guidelines.
14	Q	•	14	~	
15		pushing. Can you show me in any areas where that			Internal monitoring?
16		is the case other than the time when they directed	16	A	I don't believe we have any guidelines for internal
17		her to stop pushing?	17		monitoring.
18	A		18	Q	
19		an interval where she was specifically asked to	19		of obstetrics by board certified specialists is any
20		stop pushing and so you would generally want to	20		different in Lansing, Michigan, than it is in
21		subtract that from the length of the second stage.	21		Riverside, California?
22		If a woman is rested, the second stage could go on	22	A	No.
23		for four hours. I mean, in some cases we do that	23	0	Basically obstetricians are trained to a national
24		intentionally.	24	`	standard?
25	Q	Right.	25	A	Within reason, I think that's true.
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1	А	For example, there are again this is only going] 1	0	We have already alluded to this, but during the
2		by the fetal monitor strip. There are contractions	2	×	time you have been at Kaiser you have conducted
3		where you can see fairly clearly on the monitor	3		good deal of research and published a large numb
4		that it appears the woman is pushing, and there are	1		
			4		of papers, correct?
5		other contractions where it appears that the woman	5		Yes.
6		may be resting with the contractions.	6		How has your research been financed or funded?
7	Q	Okay. Could you give - could you indicate those	7	A	Most of it hasn't been funded. It's just been
8		for me so we can refer to them? What panel or time	8		my own time. I did have one large project, several
9		are you referring to?	9		year project, which was funded by a grant from the
0	A	Weil, let me go back and see if I can find some as	10		Garfield Institute. It was called the Garfield
1		examples for you.	11		Memorial Fund.
2	Q	Okay.	12	Q	And what is that?
3	A	Okay. An example would be on Panel 28584, there's	13	A	The Garfield Fund, I believe, is administered by
4		a contraction where it looks like perhaps the	14		Kaiser in Oakland and they fund projects that they
5		patient's not pushing. And then on Panel 28587,	15		deem to be worthy in improving patient care.
б		there's another example of a contraction where the	16		You have seen. I take it, the ACOG estimates that
7		patient's apparently not pushing with her	17		indicate that the cost of cesarean sections is
8			18		greater than the cost of vaginal delivery?
9		is certainty because if I had been in the room,	19		Yes.
0			20	-	I think they reported that as of 1993 the average
			21		cesarean section costs around \$11,000 and vagina
1		every single contraction.	22		delivery, on the other hand, costs around \$6,430?
2					
1 2 3	Q	Have you ever been to Lansing, Michigan, or Sparrow Hospital?	23	A	I don't have the numbers in my head but

	AA 1	ARDS vs. KELLY Mult	and other states in the local division of the local division of the local division of the local division of the	age	
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1		statistics that show there is a difference and it's	1		study.
2		in line with what you're saying.	2	Q	· · ·
3	Q	I believe in 1990 you estimated that if physicians	3		Repeat cesarean Delivery Versus Trial of Labor:
4		followed your recommendations concerning your trial	4		Prospective Multi-Center Study".
5		of labor after cesarean section, over 200,000	5		Yes.
6		cesarean sections could be avoided in this country	6	Q	What is the more recent study?
7		each year?	7	A	One just recently came out where we have looked
8	Α	Yes.	8		the outcome of women with - who were treated w
9	Q	Which, if the math is right, that would be a	9		Prostaglandin for cervical ripening during trials
10		medical cost savings of about \$914 million in a	10		of labor with previous cesarcan section and y
11		year?	11		compared them to women that didn't have
12	A	Well, that would necessitate, you know, using those	12		Prostaglandin.
13		numbers for the difference.	13	Q	Where was that published?
4	Q	Yeah, right.	14	A.	This was published in the American Journal
15	A	I have recently heard some doctors saying they can	15		Perinatology.
16		do cesarean sections more cheaply than vaginal	16	Q	And when?
17		births, and I think I believe them.	17	A	About two months ago, I believe it came out,
8	Q	Do you?	18		maybe a little less than that.
9	Ā	4 -	19	0	Going back to your 1994 study, as I understood
20	Q	Have you actually done any analysis to determine if	20	•	this study was a multi-center study, meaning it
21	`	that's true?	21		included patients at all of Kaiser
2	A	I have not personally, but there has been a study	1		Southern California hospitals; is that right?
23		out of Kaiser that showed that the cost saving	23	Δ.	Yes, I believe that's correct.
24		benefits of the the supposed cost saving	24		And I think there was a total of 5,022 patients
25		benefits of VBAC did not materialize.	25	¥	that had a trial of labor following a previous
				-00	
1	~	Page 82 And was that published?	1		Page cesarean section?
1		Yes, it was.	1		Yes.
2		And where was it published?	2		
3		-	3	Q	And included in your findings were one that
4 F	A	I don't know, but the first author was a Dr. Wirtshafter. I believe it's	4		patients whose primary cesarean section was for
5		W-i-r-t-s-h-a-f-t-c-r.	5		failure to progress still had the lowest success
6	~		6		rate for vaginal delivery?
7	Q	You say you don't know where it was published?	7		Yes.
8	Ą	No, it was not in one of the major journals and I'm	8	Q	And again that was 67 percent?
9		not even sure I just heard about it. I'm not	9	A	Yes.
0		even sure I have actually seen the publication, but	10	Q	And two, the incidence of uterine rupture increas
1		I have heard that it was published.	11		from 0.2 percent in your earlier studies to 0.8
2		Are you in a position to pass any judgment on its	12		percent in this latest study?
3		reliability as a study?	13	A	Yes.
4	Α	I have no reason to doubt that it is credible. I	14	Q	And three, the patients who declined VBAC and had a
5		have never actually looked at the cost issues. I	15		repeat cesarean section had a lower percentage of
б		have in the studies I have done, we have never	16		babies with five minute Apgars of "7" or less?
7		actually looked at the cost of gloves, of	17	A	I don't believe that was statistically significant.
8		anesthesia time. That is what they actually did in	18	Q	Just looking at Page 3 of your report, on the right
9		this study. Actually tried to cost out all the	19		side column there.
		different elements. I have never really had an	20	A	Yes, in the Table 2 it shows the actual percentage
0		· · · · ·	21		of babies with five minute Apgar scores of le
0 1 2	0	Is it true that the last major study reported by	22		ulau / . It was 1.4. Cigni Derecht. In me una
	Q		22 23		than "7". It was 1.4, eight percent, in the tria of labor group, and 0.8 percent in the elective

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I		within the range of chance differences.	1		was that among pregnant women who have had a
2	Q	5 1	2		cesarean section, major maternal complications
3		the effect that even the strongest advocate of	3		almost twice as likely among those whose deliveries
4		vaginal birth after cesarean must acknowledge that	4		are managed with trial of labor as among those v
5		a uterine rupture will occur in about 0.5 percent	5		undergo elective second cesarean section?
6		io 0.8 percent of trials of labor. Careful	6	A	I'm sorry, what was the question? Not repeating
7		observation during the trial of labor is mandatory	7		what - did you say was I familiar with that?
8		to assure that the majority of those ruptures occur	8	Q	Yes.
9		without major maternal/fetal - major maternal or	9	A	I'm familiar with that, yes.
10		fetal sequelae?	10	Q	And that finding in this study?
11	A	Yes.	11	A	I don't agree with it, but I'm familiar with what
12	Q	I have this question for you: You have indicated	12		they said.
13	1	that you don't believe internal monitoring is	13	0	
14		necessary in a case of this type, nor is scalp pH.	14	×	it?
15		How do you perform your careful	15	Α	W 22
16		observation in cases of this type?	16	0	And what is that?
17	A	Weil, the there have been many people who have	17	2 A	Can I see the paper for just a moment?
18		been advocating doing trials of labor with no fetal	18	Q	Yes, you may.
19		monitoring at all. No electronic fetal monitoring.	19	•	My concerns about this paper bad to do with the
20		They use intermittent oscillation so they're maybe	20	A	definitions of major and minor complications. A
20 21		using a fetal scope to check the baby's heart			when we look carefully at this paper, we've found
21 22		tones.	21		
			22		that the conclusions could have been dramatically
23		My position has always been and I stand	4		different had they made their definitions a li
24		by it that any woman having a trial of labor	24		bit different.
25		with a previous cesarean section would have	25		For example, they define an extension of
		Page 86			n n
			1		6
1		electronic fetal monitoring. But whether that's	1		the uterine incision to be a complaint or
1 2		internal or external fetal monitoring is a fairly	ļ		the uterine incision to be a complaint or complication, but they define – they define
		internal or external fetal monitoring is a fairly small point.	1		the uterine incision to be a complaint or complication, but they define – they define
2	Q	internal or external fetal monitoring is a fairly	12		the uterine incision to be a complaint or complication, but they define – they define
2 3	Q	internal or external fetal monitoring is a fairly small point.	1 2 3		the uterine incision to be a complaint or complication, but they define — they define hemorrhage up to and including necessitating transfusions as being a minor complication.
2 3 4		internal or external fetal monitoring is a fairly small point. So your definition of close observation includes	1 2 3 4		the uterine incision to be a complaint or complication, but they define — they define hemorrhage up to and including necessitating transfusions as being a minor complication. They defined febrile morbidity up to an
2 3 4 5		internal or external fetal monitoring is a fairly small point. So your definition of close observation includes what?	1 2 3 4 5		the uterine incision to be a complaint or complication, but they define — they define hemorrhage up to and including necessitating transfusions as being a minor complication. They defined febrile morbidity up to an
2 3 4 5 6		internal or external fetal monitoring is a fairly small point. So your definition of close observation includes what? Continuous electronic fetal monitoring, which means	1 2 3 4 5 6		the uterine incision to be a complaint or complication, but they define — they define hemorrhage up to and including necessitating transfusions as being a minor complication. They defined febrile morbidity up to an including triple antibiotic therapy as being a minor complication.
2 3 4 5 6 7		internal or external fetal monitoring is a fairly small point. So your definition of close observation includes what? Continuous electronic fetal monitoring, which means that the woman should have a the baby's heart rate being monitored continuously during the labor.	1 2 3 4 5 6 7 8		the uterine incision to be a complaint or complication, but they define — they define hemorrhage up to and including necessitating transfusions as being a minor complication. They defined febrile morbidity up to an including triple antibiotic therapy as being a minor complication. So just by how they define major and minor
2 3 4 5 6 7 8 9		internal or external fetal monitoring is a fairly small point. So your definition of close observation includes what? Continuous electronic fetal monitoring, which means that the woman should have a the baby's heart rate being monitored continuously during the labor. Doesn't mean that she couldn't get up and walk	1 2 3 4 5 6 7 8 9		the uterine incision to be a complaint or complication, but they define — they define hemorrhage up to and including necessitating transfusions as being a minor complication. They defined febrile morbidity up to an including triple antibiotic therapy as being a minor complication. So just by how they define major and minor complications, they could have had dramatically
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2 3 4 5 6 7 8 9 10		internal or external fetal monitoring is a fairly small point. So your definition of close observation includes what? Continuous electronic fetal monitoring, which means that the woman should have a the baby's heart rate being monitored continuously during the labor. Doesn't mean that she couldn't get up and walk around. Our own patients do that for a bit. But for the majority of their labor the baby's	1 2 3 4 5 6 7 8 9 10 11	Q	the uterine incision to be a complaint or complication, but they define — they define hemorrhage up to and including necessitating transfusions as being a minor complication. They defined febrile morbidity up to an including triple antibiotic therapy as being a minor complication. So just by how they define major and minor complications, they could have had dramatically different conclusions from this study. They, as I understand it, defined major
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2 3 4 5 6 7 8 9 10 12 3 4 5 6 7 8 9 10 12 3 4 5 6 7 8 9 10 12 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 10 10 10 10 10 10 10 10 10 10 10 10	A	internal or external fetal monitoring is a fairly small point. So your definition of close observation includes what? Continuous electronic fetal monitoring, which means that the woman should have a the baby's heart rate being monitored continuously during the labor. Doesn't mean that she couldn't get up and walk around. Our own patients do that for a bit. But for the majority of their labor the baby's heartbeat is to be monitored electronically, the contraction pattern should be monitored electronically for the majority of the labor. I believe the hospital [sic] should take place in a hospital setting.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A Q A Q	the uterine incision to be a complaint or complication, but they define — they define hemorrhage up to and including necessitating transfusions as being a minor complication. They defined febrile morbidity up to an including triple antibiotic therapy as being a minor complication. So just by how they define major and minor complications, they could have had dramatically different conclusions from this study. They, as I understand it, defined major complications as one, the need for hysterectomy' Right. Two, ruptured uterus? Yes. And, three. operative injury?
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2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 11 11 12 11 14 5 10 10 11 11 11 11 11 11 11 11 11 11 11	A Q A Q	internal or external fetal monitoring is a fairly small point. So your definition of close observation includes what? Continuous electronic fetal monitoring, which means that the woman should have a the baby's heart rate being monitored continuously during the labor. Doesn't mean that she couldn't get up and walk around. Our own patients do that for a bit. But for the majority of their labor the baby's heartbeat is to be monitored electronically, the contraction pattern should be monitored electronically for the majority of the labor. I believe the bospital [sic] should take place in a hospital setting. And that is it? Those are the majar factors, yes. Are you familiar with the article in the New England Journal of Medicine, September of '96, "Comparison of a Trial of Labor With an Elective	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A Q A Q A Q	the uterine incision to be a complaint or complication, but they define — they define hemorrhage up to and including necessitating transfusions as being a minor complication. They defined febrile morbidity up to an including triple antibiotic therapy as being a minor complication. So just by how they define major and minor complications, they could have had dramatically different conclusions from this study. They, as I understand it, defined major complications as one, the need for hysterectomy? Right. Two, ruptured uterus? Yes. And, three. operative injury? Right. And I think with the first two I would certainly agree there's no question about it, b the third one — Excuse me. You have no quarrel with those bein defined as major complications. correct?

ED	W	ARDS vs. KELLY Mul	ti-f	Page	BRUCE L. FLAMM, M.D., 5-29-97
		Page 8			Page 91
1		here it is. When you look carefully at how they	1	Q	
2		define "Operative Injury", now, certainly if	2	1	was no standard of care violation in the
3		operative injury was talking about an injury to the	3		Karen Edwards case?
4		bladder or the bowel, absolutely I would agree with	4		That is correct.
5		that. They define operative injury to include	5	Q	And that neither a cesarean section nor a scalp pH
6		extension of the uterine incision.	6	i	were required in the circumstances of this case?
7	Q	Which refers to what?	7	A	That's correct.
8	A	That refers to the fact that the uterine incision	8		By the standard of care?
9		itself, perhaps when you're doing a repeat cesarean	9	Α	Yes.
1a		section, extended out laterally. Well, that	10	Q	And as we have gone through the deposition. I -
11		happens at a large number of cesarean sections. I	11		have you told the reasons why you believe that is
12		don't consider that to be a complaint or	12		the case?
13		complication. Most doctors say it requires an	13		MR. RYAN: Well, I'm going to object to
14		extra stitch or two. But probably a large portion	14		the form of the question. I think we have been
15		of their major complications were this little	15		trying to respond to your questions.
16		extension.	16		MR. BOUGHTON: He certainly has and I
17	Q	That is what I was going to ask you. Does it	17		don't have any quarrel with that.
18		indicate in the paper what number there is in that	18	Q	(BY MR. BOUGHTON) But would it be fair to say that
19		subgroup?	19		you have had an opportunity to explain to me the
23	Α	Yes. And they break that down by the trial of	20		reasons why you believe that there was no violation
21		labor group and the elective cesarean group.	21		of the standard of care with respect to performing
2.2	Q	Right.	22		a cesarean section or a scalp pH in this case?
23	A	And there were a disproportionate number of these	23	Α	I believe we have hit on a lot of the major issues.
24		particular major complications. If you break down,	24		I'm not sure we have discussed every possible thing
2.5		for example, a complaint or complication in the	25		that could relate to whether or not a cesarean
		Page 90			Page 92
		trial of labor versus the elective cesarean group,	1		would be done.
2		there were five hysterectomies in the trial of	2	Q	All right. If there's anything additional you
3		labor group and six hysterectomies in the elective	3		would like to add, please feel free to do so.
4		cesarean group. I feel those are definitely major	4	A	I can't think of anything specifically at this
:		complications, but they were essentially equal.	5		time.
6		The uterine rupture, there were ten in the	6	Q	I saw recently that you're a chairperson of the
7		trial of labor group, one in the elective cesarean	7		Institute of Health Care Improvements, Cesarean
8		group. Granted those are major complications.	8		Collaborative Project?
9		But where the real confusing part comes up	9	A	
10		is in this, quote, operative injury group there	10	Q	What is that?
11		were 41 in the trial of labor group and only 18 in	11	A	It's a group of 29 organizations actually we're
121		the elective group. But they don't break down that	12		no longer that group has disbanded 29 health
13		41 to say how many of those operative injuries were	13		care organizations around the country that got
14		bowel injuries. I would grant that's a major	14		together for 18 months to look at cesarean section
15		complication. But they don't tell you that. I	15		rates at their institutions.
16		presume that the majority of those 41 cases were	16	Q	To what end? For what purpose?
17		these extensions, which really are nothing.	17	Α	They were trying to find the safest rate of
18	Q	So the reason you question the conclusion reponed	18		cesarean delivery.
11 9		in that paper is the way in which they define: their	19	Q	And was there a paper or a report published by the
20		major maternal complication, correct?	20		group?
21	Α	That is right.	21	A	Not yet.
2:2		And, more specifically, how they - what they	22	Q	Is that something that is in the works?
2.3		included in the "operative injury" category of	23	A	Yes.
				-	
2!4		their major maternal complication definition?	24	Q	And when will that be published?

ED	WA	RDS vs. KELLY Mult	i-P	age [™] BRUCE L. FLAMM, M.D., 5-29-9
		Page 9		Page 9
1	Q	Where will it be published; do you know?	1	PENALTY OF PERJURY
2	A	Hopefully in JAMA. It's been submitted.	2	
3	Q	And it's going through the pær review process now?	3	I, the undersigned, hereby certify that I have read
4	Α	Yes, correct.	4	the foregoing deposition, that I know the contents
5	Q	Do you have a copy of the paper that's been	5	thereof and I declare under penalty of perjury that the
6		submitted to JAMA?	6	foregoing is true and correct.
7	Α	Yes.	4	Executed on, 1997,
8	Q	Could I get a copy of that?	8	
9	A	Not unless JAMA says you can get a copy of that.	9	California.
10		As you probably are aware and I'm not trying to	10	•
11		be	111	
12	Q	I'm not -	12	Bruce L. Flamm, M.D.
13	A	- I'm not trying to be nasty about that. Many	13	
14		journals are very specific about manuscripts no	14	
15		circulating. JAMA's notorious about this. And my	15	
16		understanding is that because of leaks of	.16	
17		information, major projects, major papers that	17	
18		involve years of physicians' work have been thrown	18	
19		out and rejected. Not that that would happen in	19	
20		this case, but I don't want to take any chances.	20	
21	Q	Do you have a timeline?	21	
22	A	They have had it now for about a month and we're	22	
23		hoping to hear from them within the next month or	23	
24		so. I have my fingers crossed.	24	
25	Q	Okay, I would like a copy when it is available.	25	
		Page 94		Page 4
1.		MR. BOUGHTON: That is all the questions I	1	REPORTER'S CERTIFICATE
2		have.	2	
3		MR. RYAN: I don't have anything.	3	
4		MR. BOUGHTON: Okay, good.	4	I, DENISE R. PETERSEN. CSR #3833. a Certified
5		(In a discussion off the record	5	Shorthand Reporter in and for the State of California,
6		it was stated by Mr. Boughton	6	do hereby certify:
7		that all provisions are waived;	7	That prior to being examined, the witness whose
8		that he is to receive the original	8	deposition appears hereinbefore was duly sworn to testify
9		and one copy plus a condensed.)	9	the truth, the whole truth, and nothing. but the truth;
10		(Plaintiffs Exhibits 1 and 2	10	That the testimony of the witness and all
11		marked for identification.)	11	objections made at the time of the examination were
12	,	(Deposition of Bruce L. Flamm, M.D.,	12	recorded stenographically by me;
13	`.	F.A.C.O.G., concluded at 12:10 p.m.)	13	That the foregoing transcript is a true record
14		000	14	of the testimony and all objections made at the time
15			15	of the examination;
16			1 6	I further certify that I am neither counsel for
17			17	nor related to any party to said action, nor in
18			18	anywise interested in the outcome thereof.
13			19	IN WITNESS WHEREOF. I have subscribed my name
20	,		20	this 5th day of June, 1997.
21	۶ ۱		21	
22			22	
22 23 24			22 23	Denise R. Petersen Certified Shorthand Reporter

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