In The Matter Of:

Miller v. R.E. Sedwick, M.D., et al.

Robert R. Clancy, M.D. April 6, 2001

Foster Court Reporting Service, Inc. Serving the Legal Profession Since 1939 117 South 17th Street 1800 Architects Building Philadelphia, PA 19103 (215) 567-2670

> Original File RC040601.V1, 145 Pages Min-U-Script® File ID: 1906230888

Word Index included with this Min-U-Scripto

Ì



Mis-U-Scriptz

(3) Page 1 - Page 2

NUUCILIN.	wanter, mare
	April 6, 2001

-

---- I

	Paga 3 Pa
(1)ROBERT R. CLANCY, M.D., 21 after having been duly sworn, was examined	() A: Yes.
and testified as follows:	(2) G: Prior to January 30, 1993, was
	a Cody Miller's brain pormal?
	# A: That's the day of his birth?
a Q: Sir, what is your full name and	ia Q: Yes,
(6) your current professional address?	15 A: All right. L believe it was
71 A: My name is Dr. Robert R. Clancy	m and the reason is basically that the baby's
in and I am a senior physician at the	in body had grown adequately the child's head
(a) Children's Hospital of Philadelphia here in	(a) circumference was 55 I believe at birth and
oj Philadelphia.	ng that's a normal value, that the mother had
Q: What is your specialty in the	in reported that the infant was active inside
22 practice of medicine, Doctor?	ha her and there was never any alarming
13] A: I'm sorry?	119] reduction in activity. There was not an
4) Q: Your specialty.	14 excessive amount of ampiotic fluid. One of
A: I'm a pediatric neurologist.	its the jobs of a healthy baby is to swallow
(a) G: The CV that has been provided in	ing their own ampiotic fluid and if they have a
in this case by you is accurate, sir?	in neurologic problem that prevents them from
iaj A: Yes, it is.	ing sacallowing, the fluid builds up and you
a) Q: Tell me what the Irish-American	his have too much of that.
20) Pediatric Society is, sir,	rea G: What's that called?
A: It's actually an interesting	psi A: Polyhydramnios.And then,
22) little group that alternates their	pa finally, the child did not have any source
28) professional meetings between Ireland and	22 of orthopedic problems at birth. If the
24) the United States and it's a chance for the	124 child had been inactive, there might have
es Irish physicians from the two countries to	ps been a contracture where the arm couldn't
· F	Page 4 Pa.
(y meet. It's also nice to be able to go to	ii open up.
27 Ireland and have a tax writcoff, I suppose,	2 So I think that structurally
a for the trip, because you can go there and	p the baby's brain was normal in terms of no
it's a medical meeting, it's kind of a	(4) birth defects, there was nothing
(a) club in a way.	(a) dysmorphic, and as best as 1 could tell,
a Q: Do you know if they need a	is upshorphic, and as best as recondition, in the brain had been developing normally
7) general counsel?	
(a) A: I would suspect that they do.	m through the course of the pregnancy.
p) Q: Do you have any applications for	 A: Have you found any reliable indications of neurological abnormalities
ing that position?	is indications of neurological aphormatices
A: Well, you know, I could send you	
2 OBC.	m Cody Miller?
a Q: Would you?	
4) A: Sure.	
s Q: I would be delighted.	(4) best you can the principal mechanisms of
e How do you define "birth	(15, asphyxia in an infant?
7) asphyxia* as you will be using it in your	ng A: I suppose one way of looking at
opinions today?	in this is that the process of asphyxia has
 A: In the general sense, birth 	ing many roads that lead to it, so there are
of asphyxia would be an abnormal condition in	in different ways that children can get into
which there is an interruption of blood	20 that condition of being asphyxiated. There
a supply and oxygen to the baby.	pay are specific etiologies, like the aterus
 appropriate oxygen to the baby. a) Q: And is that how you will be 	22 ruptures or the cord prolapses or the
4) defining the term if you use "birth	gas placenta tears away from the lining of the
	pg uterus.
n zsphyziz todzy?	ng But setting aside like the

Foster Court Reporting Service, Inc.

Min-U-Script®

(4) Page 3 - Page 6

Robert	R.	Clane	:у,	M.D.	
		April	6,	2001	

÷

\$

1

	ij tiny details of how it got to be that way,	Page 7		Page
	z) asphyxia itself has two general forms, two		14 Again, there are different	
	a different kinds of asphyxia, and this is		2 pathways that lead to this. So the notion	
	a) what I had included in my report.		sy here is that it's not a gradual process.	
			 It's a precipitous process. It's a 	
15			15 catastrophe. It's the bottom drops out on	
	believe by far goes by the name of partial		st the heart rate or perfusion.	
	n protonged asphyxia, and the notion here is		m And because it's so brief,	
	as that whatever is happening to the child		is the amount of time that it takes to	
	a occurs in a gradual fushion and it's		in actually reach into the brain and do its	
	n stretched out over time; and if there is		ing damage is less, and the typical figures	
	i enough reduction of blood supply over a		in that are cited - I know people always	
	a long enough period of time, it will reach		ng refer to the Myers articles and so	
	a into that haby's body and affect the brain,		in forth - but the notion there is that if	
[14	9 and in that particular situation also		14) you create a sinustion where there's this	
[15	affect other organs in a pretty striking		is abrupt total asphyxia, the damage begins	
្រទ	a way.		ing after about 10 or 11 minutes. So there's a	
 17	7 The clinical picture with		in brief grace period where if you restore the	
() ()	n this is it's not specific but it's		(a) circulation, you can escape injury. But	
[16	stereotyped. You see the same clinical		(19) just, again, for the beginning of the	
(20)	Dicture each time. So there are obviously		res process of damage, about 10 to 11 minutes.	
(21)	a neurologic signs. The child is		(2)) After these children are	
[22	unresponsive or company, lethargic. There		iza born, again, a lot of the neurologic signs	
123	are seizures. Typically the brain will		pa are similar. So sure, they're hypotonic,	
	have some kind of swelling so the sutures			
	can be split open, the fontanel could be		[24] they have seizures, coma, whatever. So in	
)			as that very superficial sense they don't look	
2		Page 8		Page 1
	bulging. The CAT scaus that are obtained		(i) that different from the first group.	
	after birth show a certain pattern. And		p But there are actually	
	assuming that the baby survives that type		m important differences that show up in terms	
	of asphyxia, when all is said and done,		ig of when you do image them, they do not have	
	they do develop CP, but it's a specific		is the brain edema. I'm not really sure why	
	type of CP, again, the most common type,		a that is, but just as an observation, the	
(7)	which is spastic quadriparesis.		73 one group has prominent edema, the second	
{ A }			in group does not.	
	babies, because the whole brain has been		m If you can examine specific	
[10]	injured, the brain becomes small over		og brain structures, it turns out that sort of	
[11]	time. They have a secondary microcephaly	i	in the glass jaw for this particular type are	
H2)	or acquired microcephaly. And most of the		ing the deep gray structures, like the thalamus	
[13]	time the children are mentally retarded as		in and basal ganglia. And, again, when all is	
{* 4 }	best as you can measure that in a		is said and done and they survive and grow up,	
[15]	handicapped child. So that's one kind or	f (is yes, they have CP, but they have a fairly	
			· · · ·	
ניין	The second type goes by the		in uncommon type of CP called extrapyramidal.	
[16]	term of abrupt total asphyxia, and it's		in the extrapyramidal includes the children	
	much less common, Probably the best		in who have choreoathetosis and involuntary	
[19]	example would be like a cardiac arrest. So	ſ	a movements.	
		1	xy So those are the two big	
(20)	WC IC LUKING TOOLE T DUT IN ASDBUVIS BOD		an categories. Then, of course, there's	
(20) (21)	we're talking about a birth asphyxia here, but there's nothing to say that a newhorr	1	and the second se	
(20) (21) (22)	but there's nothing to say that a newborn	I	always overlap with these in the sense that	
(20) (21) (22) (23)	but there's nothing to say that a newborn who is fine at birth and then maybe at a	ľ	a there might be a haby who has been	
(20) (22) (23) (24)	but there's nothing to say that a newborn			

Foster Court Reporting Service, Inc.

Min-U-Scripto

(5) Page 7 - Page 10

н 4

-

	Page 11		Page 13
p) had a chronic asphyxia and then on top of		is necessarily a cord prolapse, but anything	
(2) that is the acute total asphyxia, and that		to that would, sgain, interfere with	
p) can result in a mixture of the two where		a circulation to the baby.	
so both things overlap.		ig So those would be the three	
(s) Q: Dr. Clancy, I thank you for that		B principal things: disturbances of the	
informative precis on the kinds of		e cord, disturbances of the placenta, or the	
n asphyxia. However, you may have		m connection between the uterus and the	
(a) misunderstood my question.		(a) placents for the chronic case.	
197 A: Okay.		m Q: Doctor, let's deal with the	
ng Q: My question was: Tell me what		ing category of inadequate perfusion of the	
(13) the principal mechanisms of asphyxia are in		(19) maternal aspect of the placenta as one of	
us an infam. By that I mean: What is it		in the mechanisms by which an infant is	
[15] that causes those kinds of asphyxia, the		(1) asphyxiated All right?	
[14] pathways that take you to the end being		na A: Okay.	
(15) partial prolonged asphyxia or acute total		ng 0; Tell me what you know about	
(m) asphyxia?		ing inadequate perfusion of the maternal aspect	
ph A: Okay.		17 of the placenta insolar as that particular	
(10) Q: Would you do that for me?		by process or mechanism would cause asphyxia	
(19) A: Sure. In the first type, the		ing in an infant.	
20) partial prolonged, the notion would be,		129 A: I think prohably the best	
21) again, something gradual over time. So		21 example would be if the mother had chronic	
gay I'll simply cite something like abruption		122 hyperiension and so if the mother had	
23) of the placenta, as an example, as a		ra chronic hypertension, through the course of	
24] mechanism that as the abruption grows, the		129 her pregnancy herself had renal problems,	
as amount of blood getting to the baby from		is liver problems, bone marrow problems, that	
	Page 12	(A) ATTA PROPERTY OF A PROPERTY (INC.	
by the mother becomes progressively smaller		() typically is also reflected in the	Peg
2) and so that stretches out over time.			
(a) That's probably the most		g appearance of the blood vessels in the	
4) obvious, simple example. I think with		in placents, and as a result the placenta may	
of Q: I don't want you to restrict		is be too small or the baby may be small	
m yourself to the most obvious, simple		in because there's chronically a restriction	
(7) example of the principal mechanisms of		is of growth, and that would be one way that a	
(i) example of the principal mechanisms of a sphyxia in an infant, Doctor, I'd like a		m child could have chronic asphyxia.	
stitute more than just the obvious, simple		161 Q: Have you told me all the	
ing examples, please.		m conditions involved in inadequate perfusion	
		ing of the maternal aspect of the placenta that	
111 A: The other situation might be if 112 the mother herself had vascular disease and		(1) might be principal mechanisms of asphyxia	
		nz in infants, Doctor?	
NT she had long-standing, say, hypertension		(12) A: As far as I can think of right	
14) during the pregnancy and the placents had		14 DOW, YCS.	
(15) become damaged and was strophied or		ing Q: Would impaired maternal	
per calcified and so forth, so then in the		ne oxygenation be one of the principal	
107 course of labor there would be a protracted		107 mechanisms of asphyxia in an infant?	
(s) reduction in blood supply. I don't think I		is A: By your question you mean if the	
pa can sit here and list all of the different		us mother herself is hypoxic, impaired	
poj maternal pathologies that create placental		rey maternal oxygenation?	
an pathologies, but as a mechanism placental		21) Q: Yes.	
(2) disease would do it.		22 At I suppose it could be if the	
pai Cord prolapse can do		22 mother had a respiratory disease or was	
(24) either — or let's put it this way: There		24 hypoxic for some reason.	
[26] can be cord compression. That's not	1		

Foster Court Reporting Service, Inc.

Min-U-Scripto

(6) Page 11 - Page 14

	Page 15 Page 17
14 be, Doctor, that would cause impaired	19 of the uterus, the baby is now outside the
ra maternal oxygenation to be a principal	ra uterus, the placenta is separated from the
(3) mechanism of asphyxia in an infant?	p; wall of the placenta, that would embarrass
 A: I suppose if she had lung 	14 circulation to the baby. If the baby was
s disease, you know, asthma or some other	s septic in utero, then in a way the haby is
ig type of pulmonary condition, if the mother	is in shock, so it's not so much that the
7 had heart disease and couldn't circulate	m placenta is not doing its job but the
(e) her own blood, that could do it.	in baby's circulation internally is collapsing
[9] O: Any more than what you've just	in because they're in shock. Or if there was
[10] said, Doctor?	ing heart disease within the baby, congenital
(1) A: Well, circulation is hasically	in heart disease, and maybe fetal arrhythmia
(12) heart and lungs, so it's two big categories	12 based on congenital heart disease.
(13) of heart disease, however many there are,	is G: Would there be anything else you
[14] and pulmonary disease.	154 can think of, Doctor, in that category?
(16) Q: Okay. In the category of	is A: Well, infections can produce
(16) impaired fetal oxygenation, are there	115- spasms of blood vessels of the umbilical
(17) principal mechanisms of asphysia that you	ing cord. But they also create direct toxic
(is) put in that particular category, Docior?	ing effects on the unborn baby as well.
[16] A: I'm not sure I understand your	ing Q: Anything else in that category.
170) question.	[23] Doctor?
(2) Q: Do you recognize one of the	(29) A: I can't think of anything,
(22) categories of principal mechanisms of	[22] Q: All right, Doctor,
ps) asphyxia in an infant to be impaired fetal	1231 MR. HILTON: Gerry, this
p4) oxygenation?	(24) article that was brought in to us just a
(25) A: By definition, right. I mean,	1251 minute ago is an article Dr. Clancy sent me
	Page 16 Page 16
(1) if the baby is going to be asphyxiated,	11) yesterday.
2) there has to be some impairment of oxygen	7) THE WITNESS: Yesterday.
m or circulation,	MR. WALSH: I thought this
[4] Q: What would be some of the	was Zimmerman. That's why I put it aside.
(5) subsets of impaired fetal oxygenation which	[5] MR. HILTON: No. This is
[6] would cause an infant to be asphyxiated?	ig from Dr. Clancy in support of his
[7] A: Well, we're still getting back,	p opinions.
is) though to how the baby receives their	m MR. WALSH: Thank you.
(e) circulation, so it's whatever pathological	B Q: (Continued) I will deal with
10) processes are going to disturb the placenta	ing that later, Doctor.
(1) of the umbilical cord or more specifically	(1) A: Sure.
(12) the vein returning from the umbilicus to	[12] Q: As soon as I complete my
pay the baby.	a application for the Irish-American
94) Q: Well, that's what I'm asking you	14 Pediatric Society.
(is) to tell me more specifically about,	(16) A: I'll sign the card myself.
ne Doctor, What would be the subsets of	ps Q: Excellent.
in disease processes or conditions that would	ma MR. HILTON: Are you Irish?
(10) fall under impaired fetal oxygenation that	(14) MR. WALSH: I have been told
in would be principal mechanisms of asphyxia	
por in an infant?	ne lam.
pn A: Okay. Se prolapse of the cord	pro Off the record.
pri or some kind of a compression of the cord	py (Discussion off the record.)
[23] would embarrass the circulation between the	BY MR. WALSH:
24) placenta and the baby.And, again, if it's	pay Q: Doctor, how many episodes,
R4) the mother side or the baby side, ruprure	124 separate, distinct episodes, of bradycardia 126 occurred with regard to Cody Miller before

(7) Page 15 - Page 18

NATING V.	NUDER IN MARCY, PARA
R.E. Sedwick, M.D., et al.	April 6, 2001

	· · · · · · · · · · · · ·	Page 19		Page
	the severe terminal episode at 0219 on the		m let me just look.	
	30th of January that you refer to?		23 Well, I think this was like	
[3]	A: Let me just get my notes out so		si two to three minutes.	
	I don't say the wrong thing.		H Q: In length?	
[6]	Q: Surely. And let me tell you.		[5] A: In duration; yes.	
	Doctor, that when this is all over, if you		is Q: Duration. Length and duration	
	would be so kind as to make copies of your		m would be the same?	
	notes and provide them to whichever counsel		(a) A: Yes.	
	you want to and they can send them to me.		m Q: All right, Would you go to the	
[10]	At 1 would be happy to.		in second episode of bradycardia that you told	
[11]	MR. HILTON: While he is		nu me about?	
	looking through that, Gerry, just as a		pa A: The next I have is Panel 90382,	
	point of clarification, it looks like the		is, and actually bear with me, I want to look	
	dates on this cover sheet on this fax from		14) at the nurses notes, because this is	
	Dr. Clancy are April 4, but I think		is commented on in the nurses notes, too.	
	something must be off. I first saw this		THE WITNESS: If you know	
	yesterday morning when I walked into my		17, where that's at, you might save us some	
• •	office. I don't know if the fax was off or		na time.	
	somebody delayed sending that or whatever.		Itm MR. HILTON: Okay.	
	But I didn't hold it on you from February 4		129 The nurses notes begin on	
	until today.		[24] Page 50024 if yours are in order. What	
[22]	THE WITNESS: February 4? MR. HILTON: Excuse me:		pa time are you looking for?	
23)			[23] THE WITNESS: 1:20-ish.	
	April 4. MR. WALSH: We will deal		[24] MR.THOMAS: 50034.	
25)	MAL WALSTI. WE WILL UCZI		25)	
		Page 20		Pag.
	with that in due time.		IT BY MR. WALSH:	
14	A: (Continued) All right. I have		[2] Q: If you would be so kind,	
	three episodes of bradycardia prior to the		is Dr. Clancy, as to simply tell me what	
	terminal episode of bradycardia.		H) you're looking at when you're going through	
(S)	Q: What caused each of those		s) the process of answering the question,	
	discrete episodes, Doctor?		n picase.	
171	A: Ob, I don't know. What caused		(7) A: I am looking at two source	
	the bradycardia?		p documents. One is the fetal heart rate	
19)	Q: What caused each of the three		ps tracing itself and the other are the nurses	
	discrete episodes of bradycardia you just		in notes in the labor and delivery area that	
	mentioned to me?	1	(ii) are giving text describing events,	
t 2]	A: I am not sure what caused them.		(12) Okay, So this is at 1:30,	
18]	Q: When did they commence.		and that time is actually marked on the	
	according to your understanding of the		(14) strips, and there's also a note from the	
	facts?		is muscs that's literally dated 0130. The	
1街	A: Okay, I have panel numbers		is nurses note says: Fetal heart rate began	
	written here, so let's do it maybe that		ing to decelerate below baseline. Bonomed out	
	w2y.		(iii) at 45 and very gradually began to return to	
197	0: Go ahead, sir,		in baseline. Entirety of deceleration lasted	
501	A: The first is Panel 90356, and 1		as seven to eight minutes, Okay? So that's	
	think this was right after the mother had		in the text from the nurses chart.	
	been given the epidural. She herself had		22 I'm now looking at Panel	
	low blood pressure after that, and then		23 90382. To the left of this moment the	
	there is this period of bradycardia. And I		24 fetal heart rate baseline has been	
y	think this was a couple minutes long, but	1	ra fluctuating 150 plus or minus some and	

~ 7

Robert	Я.	Clancy,	M.D.
		April 6.	2001

- - 4

. .

F	Page 23 Page
in indeed as the nurse says, it drops down, I	in normal baseline of the baby does it have to
(2) can't tell if it's literally 45, but that	p) be before you would characterize it as
(a) looks like a good reading, and it's back up	B bradycardia, Doctor, in any instance where
(4) again to around 120, actually, just in a	19 you are dealing with the baseline
is) couple minutes. So let's see here. Maybe	interpretation of it?
in three to four minutes to get back to 120.	A: Probably below 90 beats per
m I know the nurse says seven to eight, but I	minute would get my attention.
(a) guess she means completely and totally	a: So are you telling me that with
in stable to baseline.	📧 regard to determining bradycardia, as a
10 Q: Stay where you are with those	in definition, when related to the fetal heart
in papers, Doctor	ing rate below the normal baseline of the baby,
http: At Yes.	ing if it were below 90, that would be
pay Q: - because I am going to ask you	his bradycardia?
[14] some questions now rather than have you put	14 A: Yes.
is them back and pull them out again All	115 Q: All right, Now, are there any
(ie right?	is other circumstances or categories of
[17] A: Sure.	no interpreting bradycardia that you would be
[10] Q: When you used the term "episodes	(iii) using other than that one?
ps of bradycardia" in your opinion inter or	A: I use a heart rate of 60 not
po report, how were you defining "bradycardia"	ing just as bradycardia but something that
izi when you used it?	20, just as bradycardia but someoing brat
(22) A: Slow heart rate.	27 of that has nothing to do with
[23] Q; Well, what's a slow heart rate,	22) obstetricians and newborn babies but,
(24) Doctor?	23) Obstetricialis and newtorin bables out,
25 A: Do you want to know what the	is the cardiac unit for the newborns.
inimum and in the second se	
	Page 24 Page
nt cutoff is?	19 So, for example, in a
(2) Q: I want to know what your	at cardiac unit with newborn infants where
 criteria are when you use that term, 	is they have heart defects, it's not that
in because I have no way of understanding what	(i) uncommon to see bradycardia and so forth.
isi you mean by "bradycardia" when you say	(s) When there is a sustained heart rate below
(e) there were several episodes of	in 60, they know and I know that that can open
p bradycardia. So you need to tell me	
	(7) the door to trouble for the babies.
(e) exactly what you meant, Doctor,	77 the door to trouble for the bables. 187 So having a heart rate of
 (a) exactly what you meant, Doctor, (b) A: Okay. So the first definition 	
 (a) exactly what you meant, Doctor, (b) A: Okay. So the first definition (in) would simply be reduced from baseline, 	IN So having a hear rate of
 (a) exactly what you meant, Doctor, (b) A: Okay. So the first definition (c) would simply be reduced from baseline, (c) slower than usual for this baby. So, for 	 So having a heart rate of 90, for example, yes, that's bradycardia;
 (e) exactly what you mean, Doctor, (p) A: Okay. So the first definition (n) would simply be reduced from baseline, (n) slower than usual for this baby. So, for (n) example, the absolute number, even 90 would 	 So having a heart rate of 90, for example, yes, that's bradycardia; but all things being equal, that shouldn't
 (a) exactly what you meant, Doctor, (b) A: Okay. So the first definition (c) would simply be reduced from baseline, (c) slower than usual for this baby. So, for 	 So having a heart rate of 90, for example, yes, that's bradycardia; 10 but all things being equal, that shouldn't 11 hurt you. When you fall below f0, then
 (e) exactly what you mean, Doctor, (p) A: Okay. So the first definition (n) would simply be reduced from baseline, (n) slower than usual for this baby. So, for (n) example, the absolute number, even 90 would 	 So having a heart rate of 90, for example, yes, that's bradycardia; 10 but all things being equal, that shouldn't 11 hurt you. When you fall below f0, then 11 there is the possibility of low blood
 (e) exactly what you meant, Doctor, (f) A: Okay. So the first definition (f) would simply be reduced from baseline, (f) slower than usual for this baby. So, for (f) example, the absolute number, even 90 would (f) be slow for a baby but would be fast for (f) not so it's not simply a number that fits (f) everybody. So the first notion is that 	 So having a heart rate of 90, for example, yes, that's bradycardia; 10 but at things being equal, that shouldn't 11 hurr you. When you fall below for then 11 a there is the possibility of low blood 11 pressure and so forth, because the actual
 (a) exactly what you meant, Doctor. (b) A: Okay. So the first definition (c) would simply be reduced from baseline, (c) slower than usual for this baby. So, for (c) example, the absolute number, even 90 would (c) be slow for a baby but would be fast for (c) me. So it's nor simply a number that fits 	Bo having a heart rate of 90, for example, yes, that's bradycardia; 100 but all things being equal, that shouldn's 110 hurt you. When you fail below for them 111 hurt you. When you fail below for them 112 hurt point of the possibility of low blood 113 pressure and so forth, because the actual 114 flowing of the blood through the baby,
 (e) exactly what you meant, Doctor, (f) A: Okay. So the first definition (f) would simply be reduced from baseline, (f) slower than usual for this baby. So, for (f) example, the absolute number, even 90 would (f) be slow for a baby but would be fast for (f) not so it's not simply a number that fits (f) everybody. So the first notion is that 	 So having a heart rate of 90, for example, yes, that's bradycardia; 10 ber all things being equal, that shouldn't 11 hurt you. When you fall below for, then 11 there is the possibility of low blood 11 pressure and so forth, because the actual 114 flowing of the blood through the baby, 119 what's called cardiac output, depends
 (a) exactly what you meant, Doctor, (b) A: Okay. So the first definition (c) would simply be reduced from baseline, (c) slower than usual for this baby. So, for (c) example, the absolute number, even 90 would (c) be slow for a baby but would be fast for (c) no. So it's not simply a number that fits (c) everybody. So the first notion is that (c) it's a reduction from baseline. 	 So having a heart rate of 90, for example, yes, that's bradycardia; 10 but all things being equal, that shouldn't 11 hurt you. When you fall below f0, then 11 hurt you. When you fall below f0, then 12 there is the possibility of low blood 13 pressure and so forth, because the actual 14 flowing of the blood through the haby, 15 what's called cardiac output, depends 14 directly on the heart rate in a newborn.
 (e) exactly what you meant, Doctor, (f) A: Okay. So the first definition (f) would simply be reduced from baseline, (f) slower than usual for this baby. So, for (f) example, the absolute number, even 90 would (f) be slow for a baby but would be fast for (f) be slow for a baby but would be fast for (f) everybody. So the first notion is that (f) it's a reduction from baseline, (f) Q: Can I stop you there 	So having a heart rate of 90, for example, yes, that's bradycardia; 113 bar all things being equal, that shouldn't 114 hurr you. When you fall below f0, then 113 there is the possibility of low blood 114 pressure and so forth, because the actual 114 flowing of the blood through the baby, 119 Mowing of the blood through the baby, 119 directly on the heart rate in a newborn. 117 For you and I it's different. We can
 (a) exactly what you meant, Doctor. (b) A: Okay. So the first definition (c) would simply be reduced from baseline, (c) slower than usual for this baby. So, for (c) slower than usual for this baby. So, for (c) sexample, the absolute number, even 90 would (c) be slow for a baby but would be fast for (c) me. So it's not simply a number that fits (c) everybody. So the first notion is that (c) it's a reduction from baseline, (c) Can I stop you there - (c) A: Yes. 	 So having a heart rate of 90, for example, yes, that's bradycardia; 10 but all things being equal, that shouldn't 11 hurt you. When you fall below f0, then 11 hurt you. When you fall below f0, then 12 howing of the blood through the baby, 14 flowing of the blood through the baby, 15 directly on the heart rate in a newborn. 16 for you and 1 it's different. We can 16 change how much blood leaves the heart with 19 each pump of the heart. But newborns do
 (a) exactly what you meant, Doctor. (b) A: Okay. So the first definition (c) would simply be reduced from baseline, (c) slower than usual for this baby. So, for (c) example, the absolute number, even 90 would (c) exerybody. So the first notion bet, even 90 would (c) everybody. So the first notion is that (c) everybody. So the first notion these 	So having a heart rate of 90, for example, yes, that's bradycardia; 10 but all things being equal, that shouldn's 10 hurt you. When you fail below for, then 11 hurt you. When you fail below for, then 12 hurt you. When you fail below for, then 13 pressure and so forth, because the actual 14 flowing of the blood through the baby, 15 flowing of the blood through the baby, 16 what's called cardiac output, depends 16 directly on the heart rate in a newborn. 17 For you and I it's different. We can 16 change how much blood leaves the heart with 16 each pump of the heart. But newborns do 16 not. They have a fixed volume per
 (a) exactly what you mean, Doctor. (b) A: Okay. So the first definition (c) would simply be reduced from baseline, (c) slower than usual for this baby. So, for (c) example, the absolute number, even 90 would (c) be slow for a baby but would be fast for (c) me. So it's not simply a number that fits (c) everybody. So the first notion is that (c) c) C and stop you there — (c) C and stop you these (c) C and while we stay on these (c) points? 	 So having a heart rate of 90, for example, yes, that's bradycardia; 10 bet all things being equal, that shouldn't 11 hurt you. When you fall below 60, then 12 there is the possibility of low blood 13 pressure and so forth, because the actual 14 flowing of the blood through the baby, 16 what's called cardiac output, depends 18 directly on the heart rate in a newborn. 17 For you and 1 it's different. We can 119 change how much blood leaves the heart with 119 each pump of the heart. But newborns do 120 not. They have a fixed volume per 131 contraction. So if you drop their heart
 (a) exactly what you meant, Doctor. (b) A: Okay. So the first definition (c) would simply be reduced from baseline, (c) slower than usual for this baby. So, for (c) example, the absolute number, even 90 would (c) exerybody. So the first notion is that (c) everybody. So the first notion is that (c) it's a reduction from baseline. (c) A: Yes. (c) C: - while we stay on these (c) The first concept of 	So having a heart rate of 90, for example, yes, that's bradycardia; 10 but at things being equal, that shouldn't 10 hurr you. When you fall below for, then 10 hurr you. When you fall below for, then 10 pressure and so forth, because the actual 10 flowing of the blood through the baby, 10 what's called cardiac output, depends 10 flowing of the blood through the baby, 10 what's called cardiac output, depends 10 flow on the heart rate in a newborn. 10 For you and I it's different. We can 10 change how much blood leaves the heart with 10 each pump of the heart. But newborns do 10 not. They have a fixed volume per 10 contraction. So if you drop their heart 10 rate, you are reducing the amount of water
 (a) exactly what you meant, Doctor. (b) A: Okay. So the first definition (c) would simply be reduced from baseline, (c) slower than usual for this baby. So, for (c) slower than usual for this baby. So, for (c) a example, the absolute number, even 90 would (c) be slow for a baby but would be fast for (c) me. So it's not simply a number that fits (c) everybody. So the first notion is that (c) it's a reduction from baseline. (c) A: Yes. (c) C: - while we stay on these (c) points? (c) The first concept of (c) bradycardia would be a reduction from the 	 So having a heart rate of 90, for example, yes, that's bradycardia; 10 bet all things being equal, that shouldn't 11 hurt you. When you fall below 60, then 12 there is the possibility of low blood 13 pressure and so forth, because the actual 14 flowing of the blood through the baby, 16 what's called cardiac output, depends 18 directly on the heart rate in a newborn. 17 For you and 1 it's different. We can 119 change how much blood leaves the heart with 119 each pump of the heart. But newborns do 120 not. They have a fixed volume per 131 contraction. So if you drop their heart

Foster Court Reporting Service, Inc.

Min-U-Script@

(9) Page 23 - Page 26

(1) of bradycardiz other than when it's	Page 27		Page 29
a measured as a drop below the baseline to 90		in Let's stay with the	
a) or in the neonatal environment.		at definition that I expect you will tell me	
a) particularly with cardiac patients in the		a is most applicable in this case and that's	
al peonatal area, 60? De you have any other		s) the fall of the fetal heart rate from the	
bradycardic definitions?		is normal baseline to below 90 during the	
7 A: No. I realize that for the		ia labor process.	
a) obstetricians they classify the different		n A: Okay.	
b) bradycardias in relationship to the		(e) Q: That's what you're using in	
of temporal events with contractions, so is it		(9) defining "bradycardia," area't you, Doctor?	
after the contraction or simultaneous or if		iio A: Yes.	
2) it's variably related, but I am not an		(1) Q: All right. You are not using	
s) expert in that and I am not going to opine		ing the neonatal cardiac patient below 60 as	
a) about whether this is a late decel or a		na bradycardia, are you?	
si variable decel.		[19] A: No. I mean, they're both on heading and in	
a Q: Do you profess in public or		ng bradycardia.	
n professional settings to be an expert in		ps Q: I know they are. But are you	
in the interpretation of electronic fetal		(17 using that parameter in your opinion	
a) monitor tracings, Doctor?		(18) letter?	
A: Not directly. I don't do it		(19) A: No. I mean, I guess what I'm res trying to say in the opinion letter is that	
i contemporary to any mother giving birth.	1	and trying to say in the option refer is that	
a No one ever wants a neurologist to know		as bradycardia where it was bradycardia,	
a about it. It is relevant to my		pa definitely bradycardia, and we talked about	
q understanding of the baby simply because		pij one of them a minute ago, we are talking	
si it's held out to be a sign of neurologic		29 about the middle one right now, and that	
	Page 28		Pao
well-being. If there is variability, the	-	i) these were bradycardia that were below 90.	L#Br
a heart rate is under the influence of the		is in fact, they went down to 45, which gets	
brain. So if the brain is basically dead,		is my attention for sure. But then they were	
there's nothing to tell the heart to beat		(4) relatively brief and they recuperated.	
a faster or slower. So you are pretty much		Q: All right. With regard to the	
s stuck with the fixed heart rate. So I am		is definition of "bradycardia" when related to	
h aware of what the issues are. But, again,		m a drop in the fetal heart rate to 90 from a	
) I'm not at the bedside reading these things		is higher normal baseline, how long does the	
n for deliveries and comemporary		in fetal heart rate have to continue below 90	
a experiences.		ng to be bradycardic in your definition?	
9 Q: Have you ever testified in your		A: Oh, I've never thought of it	
a many court appearances as an expert in the		ha that way. In other words, how long is it	
n reading and interpretation of electronic		in to be below 90 before you say you qualify	
(fetal monitor heart tracings?		(14) for bradycardia?	
A: I actually do, but I always		18 Q: Yes, Doctor.	
s couch it that I can read numbers off a]	A: I don't know that there's a	
heart tracing and I know where the critical		17) definition. I mean, I don't have a	
values are. I am not going to slug it out		pa definition for that.	
with an obstetrician about is that a Type 1		ne Q: Okay. Would it be your	
a or a Type 2 dip and things like that. But		an understanding insofar as the definition of	
a if it's something like a profound	E E	24 "bradycardia" in a fetus during labor that	
a bradycardia, I mean, I can read and I know	1	az if there was a normal baseline in the 140's	
# where the critical values are. So I'm kind	E E	m and the heart rate dipped below 90 even	
9 of saying yes and no at the same time.		ny momentarily, that that would be a	
9 Q: I understand.	1	ra bradycardic event in that fetus' labor?	

Min-U-Scripts

(10) Page 27 - Page 30

÷

ŀ

Robert R. Clancy, M.D.	
April 6, 2001	

• • • • • • • • • • • • • • • • • • •	Page 31	Page 33
A: I suppose, yes. I mean, like I	in A: I am just scribbling on the	
(2) say, if it goes below 90, at that moment	27 chart here so I can give you a good answer.	
(s) it's bradycardic, Whether or not it's	is Q: Not my chart so I don't care,	
 important is obviously a different 	M Doctor.	
(s) question.	(s) A: Okay. So let me state your	
(n) Q: I am only asking that you work	in question back to be sure I heard it right.	
m with me so I know what you're talking	m The period of time that the child was below	
(a) about, Doctor.	(s) 90, the duration of time below 90, and	
19] A: Okay.	in recovery to 100?	
(10) Q: You are light-years ahead of me	(re) Q: Yes.	
(a) in this area.	nn A: Okay. Slightly under five	
pg A: I don't think so.	(17) minutes.	
(13) Q: We'll see.	ing Q: Now, for the same event of	
(14) In the definition of	ne bradycardia at 0130 that you categorize or	
ns; "bradycardia," when you use it, do you	us describe as the second event, tell me what	
ne make it more descriptive than simply	ng the normal baseline of the fetal heart was	
ph bradycardic? In other words, do you	ing at the point in time before it began to	
(18) describe it in more detail, such as mild,	(in drop and went to 90.	
(s) moderate, severe, whatever other words you	(in A: Okay Basically I'd say it was	
120 might use, if you do use those words?	120 150, let's say 140 to 150. It was a pretty	
21) A: I don't have any classification	py decent baseline. The heart rate slightly	
22) system or scheme for that. I suppose the	izz goes up before it starts to fall to 90.	
(23) two parameters that you would be interested	(73) Q: What does that mean to you, when	
pay in would be the duration in time and the	pay the heart rate slightly goes up before it	
(25) magnitude. But I don't have any criteria	ps; starts to fall to 90, Doctor?	
to for it is balance and and reach for the	Page 32	Page 34
 (i) for if it's below such and such for this (2) period of time, that's mild. I don't have 	 A: Sometimes acceleration can be a 	
	17 compensation, again, to try to increase	
(3) that.	p) circulation,	
H) G: I need you to look at the fetal	4 Q: Is that what you're telling me	
(s) monitor tracing which you have before you	is it means to you?	
in for the 0130 event of bradycardia which we	is A: It could.	
77 have been talking about and tell me as best	(7) Q: Is that a guess or do you want	
(a) you can how long the fetal heart rate	is to say that that's what you believe it is?	
in stayed below 90 from the time it went below	[9] A: Well, I'll back off of saying	
109 90 until it appeared above 100.	por that's what it is. But there is some	
(1) A: Okzy. Let me find my pen.	(1) acceleration to like 160-170 before it	
ng There it is. Thank you.	1121 starts to fall to 90.	
us Well, let me give you a	(13) Q: I want you to look at the fetal	
[14] couple answers. Maybe I should just show	143 monitor tracing that you have before you	
us you so we are -	us regarding the second bradycardic event at	
(ie) Q: No, don't show me anything right	ng 0130 and tell me what you contend is the	
17) BOW.	107 normal baseline at that point in time where	
(iii) A: You don't want to see anything?	has it goes down below 90 as you've used that	
(19) Q: I just want you to answer	19 concept in your definition, sir.	
20) verbally on the record. Thank you for	A: So, again, the baseline before	
an suggesting that, though.	ing the bradycardia to 90 was 140 to 150.	
1227 A: Okay.	(m) Q: All right. And when it got to	
(2) Q: What I want is an answer to that	25 90, Doctor, on the fetal monitor tracing,	
pay question in minutes if you are able to do	per having dropped from the normal baseline of	
25) that for me.	pa 140 to 150, how long did it remain below 90	

Min-U-Script®

(11) Page 31 - Page 34

R.E. Sedwick, M.D., et al. April 6,	

Page	e 35 Page
(1) before it returned to the normal baseline	in habies. So I'm just saying that if we were
(2) of 140 to 150, if you can give me that	m standing at the bedside where you could see
a answer in minutes or seconds or bodi?	pi a baby like this
A: Okay. Six and a half to six and	9 Q: Doctor, I need you to focus with
is) three-quarters minutes, just shy of seven	is me on a ferus in the womb. I am not here
is minutes. And that's getting back to the	is on a cardiac neonate in the ICU or the
m 140 to 150 baseline.	m NICU. So if you would focus with me on the
(a) Q: And that's using your definition	[8] fetus in the womb, that would help us move
is) of "bradycardia," isn't it, Dr. Clancy?	m along.
A; Well, no. My definition of	ing A: Well, my experience as someone
in bradycardia was under 90 and what you have	ing who can actually see these children in the
in not asked me is how long did it take to go	ing real world makes me a valuable person to be
is) from below 90 back to 90. You asked me to	13. String here and give these kinds of
iai go back to 100 first	depositions, because no one is inside this
15] Q: All right.	ns womb with this baby to know how
is A: — and then you asked me to go	ne Q: Doctor, I don't have the
17 up to 140 to 150.	in slightest intention to demean, disparage,
(a) Q: All right. So your definition	(18) or insult you, sir.
in of "bradycardia" is below 90 from the	1167 A: No, no.
20 normal baseline; correct?	pa Q: But I am here on a purpose in a
21) A: Yes.	an particular case and all I ask you is to
22) Q: All right. Let's then take the	ize answer this question for me so we are on
ray next step. I thank you for pointing that	rest the same wavelength.
24) out to me. In this bradycardic event at	129 In this case where you have
28 0130 tell me how long you calculate the	rs identified a four-minute period of
Page	e 36 Pag
in fetal heart rate was below 90 after	n bradycardia using your own definition, do
(2) reaching 90 from the normal baseline of 140	23 you consider that to be a prolonged period
is to 150 and until it again reached 90, which	p of bradycardia in this particular setting?
(a) would be your definition of "bradycardia,"	4) A: No.
is wouldn't it, Doctor?	(5) Q: Why do you not consider it a
167 A: Yes,	is prolonged period of bradycardiz in this
77 Q: All right.	m particular setting?
(a) A: Four minutes. There were four	A: From my perspective, prolonged
19 minutes in which the heart rate was below 19, 90, either on the way down or the way	m would have to be, again, long enough to
in back.	im damage I guess is maybe what we're at odds
a Q: In accord with your definition	ng about here, and this would not be long
is of "bradycardia" that you have already	na chough to damage.
is of bladycartain that you have already	(12) Q: Doctor, if there was a prolonged
isi A: Yes.	14 period of bradycardia using your
	iss definition, would a fetus undergoing a
Q: Now Doctor, would you as a	ns prolonged period of bradycardia suffer
n pediatric neurologist consider that that	in severe feral hypoxia?
in pediatric neurologist consider that that is was a prolonged period of bradycardia in	117 severe fetal hypoxia? 119 A: I'm sorry; ask the question
 pediatric neurologist consider that that was a prolonged period of bradycardia in this particular instance? 	117 severe fettal hypoxia? 118 A: I'm sorry, ask the question 118 again, please.
 17 pediatric neurologist consider that that 18) was a prolonged period of bradycardia in 19 this particular instance? 29) A: <u>Not really Lincan, below 90</u>. 	117 severe fettal hypoxia? 118 A: I'm sorry, ask the question 119 again, please. 129 MR. WALSH: Read it back to
 pediatric neurologist consider that that was a prolonged period of bradycardia in this particular instance? A: Not really L mean, below 20. of four minutes should be tolerable to a 	117 severe fettal hypoxia? 116] A: I'm sorry; ask the question 116] again, please. 229. MR. WALSH: Read it back to 231. Dr. Clancy, ma'am.
 pediatric neurologist consider that that was a prolonged period of bradycardia in statis particular instance? asy A: Not reality. Incan, below \$21. ast for four minutes should be tolerable to a baby in the womb or in the cardiac unit. 	117 severe fetal hypoxia? 119 A: I'm sorry; ask the question 119 again, please. 129 MR. WALSH: Read it back to 121 Dr. Clancy, ma'am. 122 (The court reporter read the
 pediatric neurologist consider that that was a prolonged period of bradycardia in set his particular instance? and <u>A: Not really I mean, below 90</u> and <u>for four minutes should be tolerable to a</u> baby in the womb or in the cardiac unit. an <u>O: Well</u>, I am talking about in the 	117 severe fetal hypoxia? 119 A: I'm sorry; ask the question 119 again, please. 229 MR. WALSH: Read it back to 221 Dr. Clancy, ma'am. 223 (The court reporter read the 223 pending question.)
 197 pediatric neurologist consider that that 198 was a prolonged period of bradycardia in 199 his particular instance? 199 A: Not really Linean, below 90. 191 for four minutes should be tolerable to a 192 baby in the womb or in the cardiac unit. 	117 severe fetal hypoxia? 119 A: I'm sorry; ask the question 119 again, please. 129 MR. WALSH: Read it back to 121 Dr. Clancy, ma'am. 122 (The court reporter read the

÷,

Min-U-Scripto

(12) Page 35 - Page 38

1.

Ļ

	 A: Or back above 90. Again, bradycardia is below 90. All right? So 	
	a you start with the normal baseline. The	
	19 heart rate falls. When it goes below 90,	
ļ	is there's a label for that. It's called slow	
	m heart rate, bradycardia. When it goes back	
1	m up above 90 again, it's back into the	
2	in normal range, so he's no longer	
l	n bradycardic. It may take another couple	
	pop minutes to get back to the baseline,	
ļ	in though.	
	10 G: All right. So the definition of	
	in "bradycardia" you are using in your report	
	(14) is the fetal heart rate at the normal	
	is paseline for the fetus drops below 90 and	
	ng at the point that it's below 90, that's a	
	117 bradycardic heart rate?	
	na A: Yes.	
	ing Q: And the bradycardia continues	
	po until the heart rate rises above 90?	
	py A: Yes, I agree with that.	
	22 Q: All right, Now, using that	
	reg definition, Doctor, which I want you to	
	pq use, tell me in the 0130 episode of	
THE LOCAL PARTICULARY	29 hradycardia how long the heart rate was	
Page 40		Page 42
-	in below 90 and continued below 90 until it	1 1490 11
	•	
	-	
1		
1		
1		
1	· · · ·	
	•	
5		
1		
1		
L L		
1		
1		
1	· •	
	Page 40	 17 up above 90 again, it's back into the 18 normal range, so he's no longer 19 bradycardic. It may take another couple 19 minutes to get back to the baseline, 19 though. 10 C: All right. So the definition of 19 "bradycardia" you are using in your report 14 is the fetal heart rate at the normal 19 bradycardic heart rate? 11 A: Yes. 11 A: Yes. 11 C: All right. Now, using that 22 All right. Now, using that 23 A Yes, Lagree with that. 24 C: All right. Now, using that 25 All right. Now, using that 26 All right. Now, using that 27 A set, tell me in the 0130 episode of 29 bradycardia how long the heart rate was

-1-

Foster Court Reporting Service, Inc.

Min-U-Scripts

(13) Page 39 - Page 42

	Page 43 Page
in given that at 0130 there is a four-minute	in when you say that 10 or 11 minutes of
p) bradycardia according to your definition	gi injurious bradycardia is prolonged.
p; and your calculation, you don't consider	3 A: I guess the full answer to your
(4) that to be prolonged?	a question is from the Myers studies it says
(s) A: No, I do not.	in if you have block blood supply through the
[6] Q: What would you consider to be	m cord for 10 or 11 minutes, damage starts.
m prolonged bradycardia according to your	m From clinical studies we know that when you
a definition in the fetus in utero situation,	is grop the heart rate below 60, it is like
(e) Doctor?	m having your cord clamped. It's the closest
(io) A: Okay, Again, 90 is bradycardia	ing thing, because no one is walking around
in by definition. Okay? From my point of	ing clamping cords on babies, I believe that
iz view as a neurologist, not just for	ing the paper that I furnished you with also
is) definitions but looking at injury, it has	(a) uses that as a value. If I can put my
(4) to be bradycardia to the tune of 60 or	14) hands on it, I will show you.
is below for 10 or 11 minutes or more. That	is Q: Pasternak?
iej to me is injurious bradycardia.	A: Actually, I don't remember which
17) Q: So can we use as we go forward	197 one. I'll look there first.
is in this deposition your characterization of	where's my paper?
isj injurious bradycardia as being 60 or below?	MR. HILTON: This one?
20) A: Yes.	THE WITNESS: No.
21) Q: And bradycardia without any	ry Q: Phalen?
22) adornment, the definition we have been	A: Yes. Let me see this one.
zaj struggling with, below 90?	23 Yes, this is the Phalen
24) A: Below 90, yes.	124) D2 DET.
25] Q: Taking the definition of	25 Q: Mark that copy with the yellow
	Page 44 Page
(1) injurious bradycardia, how long would the	() Hi-Liter where you find that reference,
2) bradycardia below 60 have to be before you	2 Doctor, that you indicated was the basis
in would describe it or characterize it as	a for your thinking in this area.
(e) prolonged injurious bradycardia?	H A: Okzy,
(s) A: 10 or 11 minutes.	19 Q: Doctor, you have been kind
[6] Q: Where do you come up with this	in enough to mark on Page 20 of the Phalen
17 10- or 11-minute time parameter, Doctor?	m article in the Journal of Maternal/Feral
(0) A: This is actually a figure that	[6] Medicine, 7:19-22 (1998): "an acute
m is part of our general neurological	m prolonged fetal heart rate deceleration of
in education within neonatal neurology. It's	ing approximately 60 beats per minute from a
in part of textbooks. It's certainly in	(1) normal baseline fetal heart rate"; correct,
2 Fenichel's book and Volpe's book. And it	(12) sir?
in originally all stems from the Myers monkey	(1) A: Ycs.
4) studies: that for severe bradycardia, that	(14) Q: Now, would you be so kind,
is the onset of damage begins 10 to 11 minutes	ing Doctor, as to continue to look at the
isy after the cord is clamped or whatever,	ng Phalen study —
97 Q: Is the severe bradycardia that	in A: I've found my copy.
(a) you just mentioned relating it to the Myers	(i) Q: Oh, you have? All right, sir
m study defined as below 60 in the Myers	ing and take a moment and locate where in
n study?	29 Phalen it sets forth the 10-to 11-minure
A: No. That's not a heart rate	(a) time parameter that you have mentioned,
2) study; that's a cord study.	22 A: It does not say that,
9 Q: Okay. Well, tell me what heart	a Q: What does it say with regard to
* rate study in the medical literature it is	(24) the time parameter for the acute prolonged
is that you are relying on or referring to	reg fetal heart rate deceleration of

Foster Court Reporting Service, Inc. Min-U-Scripto

(14) Page 43 - Page 46

r -7

.

Ļ

		Page 47		Page 41
	approximately 60 beats per minute from a		n question, Doctor?	
	normal baseline fetal heart rate that		[2] A: Right, I mean, actually, at no	
	you're referring to?		p time is the child bradycardic at that point	
[4]	A: Right. There's actually two		H simply by the chart because there is no pen	
	descriptions of the time. It's all on the		is deflection here at this point.	
	same page, Page 20. In Table 1 they are		16 Q: All right. Then what's the	
	simply listing how these particular bables		7 basis for your belief that there was a	
	in the study had their problems, and here		is bradycardic event at that point in time, at	
	it's loosely defined as a prolonged fetal		m or about Panel 90392?	
	heart rate deceleration alone. And I took		[10] A: Because written in text is:	
	that to mean in the absence of other events		[15] Audible deceleration to 40 to 50.	
[12]	like uterine rupture.		[12] Q: Does it say anything about	
[17]	And on the same page under		na duration, Doctor?	
[74]	the "Results" section in the first		pa A: No.	
	paragraph, last line, it says: "The mean		15 Q: Have you formed any belief as to	
	duration of the fetal heart rate		ns the duration of that bradycardic event	
	deceleration was 32.1 plus or minus 9.1		in which, according to your definition, was	
{ 56]	minutes with a range of between 19 minutes		im injurious bradycardia?	
	and 51." And as far as I can remember,		(19) A: Well, again, there is no	
[20]	that's the only two time descriptors in		29 information present. The total duration of	
[21]	here.		ga the gap would be about two minutes. I	
[22]	Q: Let s move on to the third		22 think when the pen stopped writing, it	
(F3)	episode of bradycardia, Doctor, and if you		ra looks like it was two minutes after 12:00,	
(24)	can tell me when that was please.		(24) and then the graph comes back on line just	
[25]	A: Sure,		ps before 2:04.	
2		Page 48	······································	Page 5
[1]	MR. HILTON: Can I ask for a		m MR. HILTON: Two minutes	rage 5
	point of clarification? I thought we only	1	1) MR. HILION: Two minutes 12 after 2:00?	
	talked about one episode of bradycardia at			
	0130.		p) THE WITNESS: Two minutes H) after	
(6)	MR. THOMAS: Two so far.			
(*) (6)	THE WITNESS: We did the			
	first one and this is the second one.		is minutes after 12:00.	
791 791	MR. WALSH: The first one		m THE WITNESS: I'm sorry; I	
	was Panel 90356 that he referred to.		is confused myself with the line there, It's	
1101	MR. HILTON: Thank you.		ej 2:02, two minutes after 2:00 p.m.	
(144) (215]	A: (Continued) Okay, 1 am looking	i	ng MR. HILTON: A.m.	
	at Panel 90392 from the fetal heart rate	ł	BY MR. WALSH:	
	records.		in O: Doctor, it's not p.m.	
(14)	Q: How long was the fetal heart	1	(13) A: I'm sorry; I'm getting myseif	
•••			14 confused.	
	rate in that instance below 90 according to your definition, Doctor?	1	(s) Q: That's all right. I don't want	
		1	as you to be confused, Doctor,	
(17) 1401 - 1	A: Well, I don't know partly		an A: All right, At 2:02 the graph	
	because I think the paper was changed here	4	ing falls apart and is restored by around	
	ind so the graph is actually missing in		ing 2:04. So whatever that was, and I don't	
	his period of time.	6	now how low it was except by what's	
(21)	Q: How long was the fetai heart		29 written in, it was a two-minute time	
	ate bradycardic according to your		Ra period.	
	fefinition at that point in time using only	1	(23) O: What is the fetal heart rate at	
	he fetal heart tracing paper that you do	1	psy when the fetal heart monitor tracing is	
1261 1	neve access to? Do you understand that		ps restored, Doctor?	

Foster Court Reporting Service, Inc.

Mia-U-Script®

(15) Page 47 - Page 50

PARENCE .	NUMBER N. CHARLY, M.L.
R.E. Sedwick, M.D., et al.	April 6, 200)

	& the horizoith 70 for a fam	Page 51		Page !
(7) 	A: It's basically 70 for a few noments and then it's 90 and above as soon		in blood flow, to its ability to carry on its	
			g functions, any chemical insults or	
	is the graph comes back on.		n reactions? Can you describe for me what	
[4]	O: I am going to have to ask you to		19 was going on in that time frame, sir?	
	urn back to the 0130 time period, Doctor,		15 A: Well, there's obviously a host	
[6] I	didn't ask you a question I should have.		g of responses that the baby would have and	
[7]	A: Sure.		m they would be basically physiological and	
[8]	Q: When you find that, tell me.		e blochemical.	
[P]	A: I have it.		m The physiological responses	
10)	Q: Was there any period of		ing would be turning on the so-called	
no i	njurious bradycardia according to your		in protective reflexes of the infant, and that	
j12) đ	lefinition of fetal heart rate below 60 in		ng has to do with redirection of the	
(13) t	hat particular event of bradycardia?		(i) circulation to protect the brain and the	
(14)	A: Yes, there was,		by heart as sort of the guarterback of the	
[15]	Q: Tell me the amount of time that		ne body, so to speak.	
• •	s in the injurious bradycardia or below 60			
	arameter, sir.		by And there would be	
[14]	A: Okay, About two and a half		17 biochemical changes of a simple nature.	
	ninutes.		ng One would be that the bloodstream would be	
[20]	Q: Would you describe for me,		no more acidic, at least at that moment. And	
	Dr. Clancy, the effect on the ferus during	i	an there would probably be compensation, the	
	hat two and a half minutes of injurious		in buffers, the acid-based buffers, in the	
			22 body. There would probably be some release	
	radycardia in terms of effect on its tatus of well-being?		pay of stress hormones: cortisol, adrenalin,	
	12-		pq Assuming that the threshold	
[26]	A: Okay. It certainly is a stress		rea for damage has not been broached, which is,	
		Page 52		Pag.
	n the baby. But, again, the purpose of		19 again, below 60 for more than 10 to 11	
	cfining it over time is that this should		17 minutes, those changes would remain as	
	ot leave any lasting mark on the child.		p biochemical changes and physiologic changes	
	hat's the whole notion of the model, is		H but would not be translated into actual	
	hat you have to be exposed to that for a		s tissue damage.	
(6) İC	onger time, 10 or 11 minutes before the		(6) Q: Would any of those changes you	
nd	amage begins. So this two-minute period		m have just described continue after the	
(8) W	ould not damage the child.		in period of injurious bradycardia had passed?	
[4]	Q: Weil, if you would, Dr. Clancy,		m A: This is not like a light switch	
[10] W	e know that there was a period of	Į	ing turning on and off. So the moment that the	
in bi	radycardia according to your definition at		(b) heart rate goes above 60, there certainly	
	at point in time and there was a		its a recuperative process to restore the	
	vo-and-a-half-minute period of injurious		is balance again to the child.	
	adycardia according to your definition;	1	[14] Q: Would you describe that for me,	
	STREEP?	1	as please, the recuperative process to restore	
	A: Yes.		is the balance to the child?	
	O: I want you to take the totality	1	•	
	the bradycardic event, including the	1	A: It would be the same thing like	
	mple bradycardia as well as the injurious	1	a if you finished running a mace and you	
	adycardia, if I can simply characterize		10] stopped: Your heart is still beating, and	
	that way for the purpose of this	1	20] over a few minutes your heart rate will	
	and way for the purpose of this		zij come back down to a normal value. So it's	
	aderstanding 25 2 pediatric neurologist of		22 really just the reverse of the process that	
-	AND A DEMONSTRATION OF THE OWNER OF	1	24 got the child into that situation in the	
227 U.				
1251 UI 1243 ho	ow the fetus was being affected in that eriod. What was happening to it, to its		24) first place.	

1

Min-U-Script@

(16) Page 51 - Page 54

÷

----- I

-

		Page 55	Pag
	chemical imbalance, any particular	ł	(9) type of stress that the fetus undergoes in
	component of chemical imbalance; how long		ra periods of injurious bradycardia the same
	does that take to go back into its complete	ļ	is no matter what the etiology of the
	balance state that it was in before it		H bradycardia is, Doctor?
	became deranged?		(5) A: Well, yes and no.
(6)	A: Generally it would be a few		n G: Explain that, please.
	minutes. I mean, obviously you have to		7) A: Yes. In terms of what's
	look at each individual one. You know,		in happening for either of these cases, the
	cortisol itself has a half-life in the body	1	in partial prolonged or the acute sort of
	of maybe several hours. So once the		ing thing, it's all circulatory. It's all
(11) E	molecule has been released, it's going to	1	in hypoxic ischemia. What's different about
(12) È	be in your circulation for a while. In		ing it is where the attack is on the brain
[13] f	terms of new release of cortisol, that's		is itself. And, again, I don't think it's
(14) 5	shat off right away. But, I mean, these	1	is understood exactly why one model produces
(15) 2	are the adaptive mechanisms we all have to		is the edema and the seizures and the other
(\6) ľ	react to stress, meaning physical stress,		in model produces the basal ganglia injury,
[17] \$	and health issues.		MR. WALSH: Mark that,
[\ -]	Q: Now, was there a period of		(19) picase.
pog é	injurious bradycardia at the last time that	3.	(14) A: (Continued) Again, the nature
	we talked about?	1	29 of the insult is the same, but the location
1241	A: Again, hard to say because of		and is different depending on the model.
(2Z) T	the pen's not writing. By the text -		2 Q: Now, Doctor, I'm a little
[23]	MR, HILTON: We are going	1	23] confused, and let me tell you what my
24 b	back to the paper change now, Gerry?		wi confusion is in your answer.
[245]	MR. WALSH: Oh. yes. I'm	1	za A: Okay.
		1	Zoj A. Okay.
		Page 56	Pag
	sorry.	1	 Q: You've mentioned partial
[2]	Q: Doctor, if I don't make it		m prolonged asphyxia and acute total asphyxia
	clear, you let me know. I thought you were		(s) in your answer and my question was more
	on track here. But I am on the time around		a) directed to the mechanisms of the
图 2	2:00 a.m., and I'll frame this question		in bradycardia, what caused the bradycardia,
[6] 3	igain so we're exact, Doctor.		is and would the bradycardia being caused by
[7]	At the bradycardic event or		m interruption of the umbilical circulation
(R) Č	pisode of around 2:00 a.m. or shortly		is or altered placental gas exchange or
(M) 2	after 2:00 a.m., if you assume that the		m inadequate perfusion of the maternal aspect
[10] h	neart rate is in the 40's to 50's for a		on of the placents or impaired maternal
111 C	couple of minutes, would you please		in oxygenation or impaired fetal oxygenation
	describe the effect of that period of		in part the fetus in that period of
(13) ÍI	njurious bradycardia on the fetus for me?	1	injurious bradycardia differently depending
[14]	A: It's the same discussion. So		upon what the stimulus was that caused the
(15) I	'm going to take it that by the nurse's	1	injurious bradycardia. Do you follow me?
	observation the heart rate fell to the 40's	ź	A: No.
	or 50's, which is below the level that's	1.	n G: You don't?
	potentially injurious; and it could have	F	•
	asted up to two minutes, and it would have	1	iej A: I really don't.
	been the same idea that the body responds	1-	og Q: All right, ls it your position
	y sending out its stress reactions and	l'	on that —
	adaptive reactions; and then if the stress	1.	A: I think I'm being dense today.
	s removed from the system, equilibrium is	1	zy bin go ahead.
	s removed from the system, equilibrium is	1	23) Q: Life is a learning experience,
Nu' 5:	2	12	a Doctor.
1251	Q: All right, is the nature/the		a A: Okay,

Foster Court Reporting Service, Inc.

Min-U-Script®

(17) Page 55 - Page 58

Miller v. R.E. Sedwick, M.D., et al.	RODER R. CLAIREY, M.D. April 6, 200
Page 59 p) Q: Is it your position that	Page 61
21 injurious bradycardia 25 you define it is a	ga asphyxia in this case?
as heart rate below 60 caused by something	A: I'm sorry; just ask it one more
(4) that brings about that low heart rate?	es time.
isi A: Well, let's be concrete rather	151 Q: Sure. In fact, I'm going to
et than talk in generalities. Okay?	is rephrase it a little to make it more
m Q: Yes.	in artful
(a) A: Let's say it's the cord has a	A: Okay.
(9) spasm for whatever reason and because the	R: — if I am capable of that.
of cord goes into spasm, the baby's heart rate	ng Are you saying that the
in drops below 60. Whether it's the cord that	in injurious bradycardic episode that occurred
ing goes into the spasm or the cord that	ing in the period just after 2:00 a.m. on
as prolapses or there is a sterine rupture, I	its January 30 is part of or actually is an
on don't think that matters as much if the end	in indication of pertial method and are hunde

is) indication of partial prolonged asphyxia

ns occurring? ns MR. HILTON: Object to the

HI MR. WALSH: What is the

ing objection to the form, Frank?

ng form of the question

 (a) Local to an intervent you prepare to any prepare to a	(a) objection to the form, Frank? (c) MR. HILTON: It seems to (c) imply that Dr. Clancy has testified here (c) today that he believes that injury occurred (c) at the time of the bradycardic episode (c) shortly after 2:00 a.m. and I don't think (c) that's his testimony.
Page (1) to this acute total asphyxiz. In my (2) opinion the end result only matters on how (3) low the hear rate is and how long it was. (4) It.docsn't matter to me whether it's cord (5) spasm, whatever. (4) It.docsn't matter to me whether it's cord (5) spasm, whatever. (5) Q: Any of the mechanisms. (6) Q: Any of the mechanisms. (7) A: Any of the mechanisms. (6) Q: Any of the mechanisms. (7) A: Any of the mechanisms. (8) Q:	Pag 950 Pag

Foster Court Reporting Service, Inc.

.

(12) goes into the spasm or the cord that (18) prolapses or there is a uterine rupture, I (14) don't think that matters as much if the end

(s) result is all of a sudden the baby's heart

(18) Q: You said I don't think it

(is) rate goes below 60 for 10 or 11 minutes. I (17) don't think it cares what led up to that.

(19) natters as much. Are you prepared to say (20) it doesn't matter at all, Dr. Clancy?

Min-U-Scripto

(18) Page 59 - Page 62

-

ŀ

	Page 63 Page 65
(i) this to be partial prolonged asphyxia. And	m occurred and I said, no, I really don't
p) the second thing is I guess there's a	p know,
a slight distinction between an episode of	m Q: Doctor, this is not a question.
[4] injurious bradycardia and an injurious	(e) I am asking you it in a different form
in episode of bradycardia. When I said 60, 1	s because oftentimes I find that in this
[6] really probably should have said that's	of process different questions will help to
potentially injurious. If it's below 60	171 define more information, so bear with me.
(a) long enough, that has the potential to hurt	🛯 You just don't know and
(s) you. But it's not that when you go below	(e) aren't able to tell me?
not 60, that the clock starts ticking for	ng A: No, I don't, I truly don't
(in injury, because I don't believe that.	in know.
(12) Q: Now, with regard to the three	(12) Q: But you do know what caused the
(b) episodes of bradycardia which you refer to	(13) 0219 severe bradycardic event?
(14) in your report as happening before the	[14] A: I have an opinion about that
(s) severe terminal bradycardia at	(16) One, yes.
(is) approximately 2:19, were those episodes	and Q: We will get to that.
(17) arrests of uterine blood flow or arrests of	in A: Okay.
(a) umbilical blood flow?	1a Q: Tell me, Doctor, your
pag A: Well, neither, I mean, these	in understanding of the ways in which merine
1201 are the baby's cardiac rate. Okay? I	ing blood flow can be reduced.
pq mean, you take it at face value, this is	(a) A: Okay, First of all, the mother
pay what the heart rate is. Now, whether	iza has to supply the blood to the uterus. So
pay that's a reflection of something going on	ra anything, again, that's going to disturb
pay in the umbilicus or in the cord itself, I	pq the mother, like hypotension in the mother,
[25] can't tell you. All I can tell you is that	izs will reduce supply to the placents, and all
in the heart rate fell.	Page 54 Page 55
[2] Q: I am going to reframe that	19 the things that give rise to maternal 13 hypotension.
p) question, Doctor, because your answer	 If a protection. If Q: So hypotension as a general
[4] indicates to me that I may not have made it	b) W. IN Hyperclaster as a general k) category?
(S) clear.	 A: Yes, Of course, that would get
[6] Are these bradycardic	in into anything, into just low blood pressure
p episodes that we have been talking about,	in versus low volume or chronic disease in the
(a) the three that you've testified about, the	in mother so her blood vessels aren't
m result of uterine blood flow being	m nourishing the placenta.
10 compromised or interrupted or are they the	ing The second would be I guess
put result of umbilical blood flow being	by the placenal abnormalities liself, the
(12) compromised or interrupted?	by placenta is too small or if it has abnormal
(13) A: I mean, I still can't	blood vessels within the placenta.
pay distinguish between which of those because	(4) And third would be the cord,
its it's really ultimately one system that	(13) Q: Well, if something was wrong
ne delivers - I mean, the placents gives to	is with the cord, wouldn't that be an
117 the cord gives to the baby. So all we are	ny umbilical blood flow reduction rather than
(in looking at is the baby. So I can't tell by	ing a uterine blood flow reduction?
[19] that.	ing A trends blood now reduction?
pop Q: Well, the mechanics are	paj A: res, una would be a reduction, paj right.
py different, aren't they, Doctor, if it's	23 ngm. 23 Q: Now, Doctor, I want to ask you
22 interruption of uterine blood flow or	23 Specifically Can you tell me what
21, interruption of umbilical blood flow?	22 specializaty can you ten me what 22 mechanical events with regard to perfusion
34) A: Right, But you did ask me	ag of the uterus would take place that would
24 before do I know why these bradycardias	es reduce or stop blood flow to the uterus?

Min-U-Scripto

(19) Page 63 - Page 66

R.E. Sedwick, M.D., et al.	April 6, 2001
Page 67	Page 69
[i] A: I guess the most common thing is	11 A: Oh, let me look.
in just each contraction increases the	g Q: Would you?
p; pressure within the abdominal cavity and so	A: I have a little table with all
(c) there is reduction of blood flow to all	H the blood gases. Let me just find it,
in babies during each contraction and that's	isi Q: Take your time.

(i) there is reduction (of blood flow to all	Ht the blood gases. Let me just find it,	
n babies during each	contraction and that's	si Q: Take your time.	
a physiological reduc	ction.	A: Okay This baby was born at	
[7] Q: Well, are you	suggesting that	m 2:41 and as far as I see, the carilest	
s that can be defined	as a mechanical	as blood gas was obtained something like 0300	
w reduction of blood	flow to the uterus?	m or 0307. So that would not have been an	
(10) A: In the sense ti	hat it's a	no umbilical cord gas.	
(1) pressure/physical r	elationship as opposed	ing Q: That's not answering my	
(12) to something that's	inflamed or separated.	to question.	
[13] Q: How is blood	-	(ia) A: Okay.	
(14) aterus provided?	** *	(h) Q: Do you know of any umbilical	
•	her to oh, well,	is cord blood sample taken that was tested for	
(15) to the uterus? It's fi			
in the sons, to the ute		ing gases?	
pu believe it's the oter	•	$n\eta$ A: No, I don't.	
(is) attach the placenta		(14) Q: Okay. You are working with the	
pol uterus.		119 0300 draw of blood sample from an umbilical	
[21] Q: Well, are then	e any other ways	ma artery catheter or some other source?	
22 in which there is bi		23) A: Some other. I don't know what	
(23) therus and the vasc		izz the source was.	
	what you've just told me?	as Q: Some other source, but arteriai?	
25 A: Well, ultimate!		A: I presume so.	
pay A: wen, unmare.	ly it's going to	25 Q: Now, Doctor, I want you to give	
	Page 68		Pac
in he the mother's aor	ta that's going to	is me the strongest case you can make within a	-
(2) supply the arteries	that will take her	za reasonable degree of medical certainty for	
in blood to the placen	ita. I can't name any	py your opinion that Cody Miller's acute total	
(*) more detailed arter	ies for you,	a apphyxia was due to umbilical cord spasm	
(5) Q: What is the ge	neral nature of	is brought on by chorioamnionitis, please.	
in the blood perfusion	process for the uterus,	A: All right. Let's see. So	
m Doctor? I mean, how	w does it take place is	m there's three parts to the answer, because	
is; my question.	-	(a) first we have acute asphyxia, then we have	
A: How does wh	at take place?	spasm, and then we have chorioamnionitis.	
	of the uterus take	All right. So the first	
tu place.		by part of the answer is that the child	
	ny other organs are	(2) matches the clinical picture for acute	
(a) perfused. The mater			
(is) pressure and the pr		is total asphyxia and that was the point of	
(15) through the tissues,		14) the two articles that I provided you with.	
(is) kidney or her limbs	and a straight	is Q: Tell me what you mean by 'the	
(17) MR. HILTON: Gen	•	ps child matches the clinical picture* for	
[10] go off the record fo		(v) that.	
		is A: The first part of the clinical	
(19) (Discussion off t (29) (Short recess.)	NC 15LUIQ.J	in picture is the way in which the asphyxia	
	DV MD MAI OLL	pa occurs, and in this particular child we	
(21) mm Di Dooton koun u	BY MR. WALSH:	py have this severe drop in heart rate for a	
(22) Q: Doctor, have y		ga prolonged period of time. So that's the	
na) from your review of		as essential ingredient for the mechanism for	
(a) an umbilical cord bi	ood gas taken and	29 this form of asphyxia.	
(25) tested?		25 The second thing is we have	

Min-U-Script®

(20) Page 67 - Page 70

....

1.

printex +-	Robert R. Clancy, M.D.
R.E. Sedwick, M.D., et al.	April 6, 200
Page 71	Page 75
(i) the acute picture of the asphyxia. In	in bradycardia really through the

	If the actic picture of the asphyxia, in	in pradycardia really through the
	12) other words, yes, there are obvious	in resuscitation in the newborn period.
	a neurologic problems with the tone and coma	(n) Q: You will have to tell me what
	14 and abnormal EEG and scizures. But we have	(a) that is, Doctor.
	is virtually sparing of all the other organs	(s) A: The fetal bradycardia began at
	to so that the only real damage is done to the	19 2:19 a.m., continued until the baby was
	in brain. That's one of the themes that runs	m delivered.
	(a) through this idea of the whole clinical	18 Q: At 2:417
	in picture of acute total asphyxia.	10 A: At 2:41.
	no Then the third part of that	a Q: Correct? You agree with that?
	(1) is that Cody Miller has an uncommon type of	m A: Well, I should be more careful,
	ing cerebral palsy with choreoathetosis that	
	(13) matches the findings on the MRI scan, which	ing I guess.
	(14) agrees with where the damage is supposed to	[13] Q: Yes. I don't mean to trap you,
	ps be if in fact it's acute total asphyxia.	14) but I think you will find that's correct.
	ps Or How does it agree with where the	(s) A: No, no. I think that's
	(i) damage is supposed to be, Doctor, as you've	ing correct. They take the fetal monitoring
	per talked about, the MRI scan indicating that?	117 off at some point, so we don't have numbers
		(a) up to 2:41. The monitoring is removed,
	[10] A: Yes, In this particular souther the heart of acute souther between the heart of acute south acute the heart of acute souther between theart of acute souther between theart of acute	in Q: When is the monitoring removed,
	po syndrome of acute total asphyxia the brunt	20 Doctor?
	pri of the damage is in the deep gray	21 A: Let's see. I need to do 2
	[22] structures, the thalamus, the basal	22 little counting here.
	[23] ganglia; and when that part of the brain is	[23] About 2:26.At 2:26 the
	p+) injured, the effects are extrapyramidal CP,	124 monitor is off. At the moment of birth the
1	28) otherwise known as choreoathetosis in this	251 beart rate is below 100.
1	Pa	Age 72 Page 7
	n child.	19 Q: Now, how do you know that?
	[2] Okay. So in terms of the	A: I think the Apgar score was 1.
	m clinical picture, we have a very low heart	m Q: Doctor, that Apgar score is not
	(4) rate for a long period of time, we have	(4) at the moment of birth, is it?
	(i) encephalopathy, absence of a multisystem	5 A: All right.
	is; malfunction, the damage on the MRI scan in	s Q: Would you now tell me what you
	m the location that you would associate with	77 think the heart rate was at the moment of
	(a) acute total asphyxia, and then the clinical	m birth?
	in picture of choreoathetosis that you would	M A: I don't know. That's a good
1	of expect to be in this clinical picture as	na point. It was at one minute,
	(4) well.	(1) Q: All right. While we're on
	(2) Q: Have you finished your answer to	ist Apgars, why don't you tell me what the
	(a) that question?	
	A: Well, your question actually	[15] components of the Apgars were at one
	is first was acute total asphyxia due to spasm	14 minute, sir, as you understand it?
	is from chorioannionitis. So that's Part A.	(15) A: Yes. I have to go back and
	a: All right. Can I ask you a	just dissect that out.
	in question or two on Part A so that we can	(17) Q: Go ahead and do that, sir. I
	ing keep it manageable?	us don't mind if you get help, either.
		A: I have it. The Apgar was I for
		pa heart rate, zero for everything else, and
	21) Q: What do you mean when you say a	(24) that was at one minute.
	22 very low heart rate for a long period of	iza MR. HILTON: Gerry, that's
1.1	za tine?	128 from Page 2 of the labor and delivery
	A: Okay. The period of time would	(24) Summary.
	25 go from the onset of the terminal	m MR. WALSH: Thank you.

Pag	e 75	Page
 Q: All right. We have the 	(1) five-minute Apgar scores were taken.	, sû
z, one-minute Apgars, Doctor,	A: Correct. I don't know where the	
aj A: Yes.	p resuscitation is in that whole first ten	
4 Q: Now, what was the heart rate at	a minutes.	
s one minute that gave it a 1 on the Apgar	[5] Q: All right, sir. Thank you.	
e score?	in Staying on this point, tell	
7 A: No specific value is given. To	m mc, please, what you understand the	
s get a value of 1, though, you have to be at	in intrauterine resuscitation efforts were for	
e; least between zero and 100. If it's above	m this fetus in the period between 0226 and	
oj 100, you get 2.	10 0239.	
9 Q: Staying on this point, this	n A: 0226.	
P) Category A for the moment and the Apgars,	itz Q: I tell you 0239 because that's	
what were the five-minute Apgars, Doctor?	in my recollection of when the incision was	
A: 3.	14 made, Doctor, the first incision.	
6) G: Total?	as A: Okay. So between the time when	
n A: A total of 3,	ing the monitor stopped and 39 is the onset of	
7 G: Can you tell me the individual	ing the incision?	
# components?	ine Q: Yes.	
A: Let me look. I think it was 2	(19) A: I am not sure what was done.	
) for heart rate.	[70] Q: Well, what was the condition of	
Right, Actually, the five	p) the fetal well-being as of 0226 according	
and the ten are the same. It's 2 for heart	izi to what you read on the electronic feizi	
s rate, meaning that it's over 100, and 1 for	as monitor tracing?	
s color, adding up to 3.	pay A: Basically right before 2:26 the	
Q: When did resuscitative efforts	pa child is in an extended bradycardia around	
Page	76	Pag
including oxygenation and chest	14 60.	1 a G
a compressions begin, Doctor?	Q: When you say "extended," can you	
A: A little hard to say. I don't	is tell me how extended, Doctor?	
see where it's explicitly stated.	(4) A: Well, for several minutes.	
Q: Well, do you have a time in your	B Q: Can you tell me what "several	
a notes that you are using to work from as	si minutes" is when you use that term?	
) when the resuscitation effort with	m A: About six minutes at that	
) oxygenation and cardiac massage began?	a point,	
A: Let me just look here.	P Q: Is it at all of significance or	
1 Q: Sure.	ne importance to you, Doctor, in your analysis	
A: I take it it was right after the	ing of this case and the reaching of your	
birth. I mean, what the records say is	its conclusions, to know what the intrauterine	
i that the child was profoundly depressed and	its resuscitation efforts were for this fetus	
then patient resuscitated by the	ng between 0226 and 0239?	
anesthesiologist with bag and mask. They	159 A: Not really, I mean, I was asked	
don't give a precise timing on it.	he to look at this from a causation point of	
Q: Doctor, do you have any	in view and so whether or not there were	
understanding from any source about the	ing attempts to resuscitate or successful	
resuscitation namely, oxygen being	is attempts or feeble attempts or wonderful	
provided and cardiac massage being	poj attempts, that doesn't really change my	
provided — in this neonate before the	an opinion about what happened to the child.	
one-minute Apgar scores were taken?	[2] The child was asphyxiated.	
A: No.1 don't know how the two	23 Q: Doctor, when was it that you	
overlap.	24 contend that the child was first undergoing	
Q: The same question for before the	ps actual acute total asphysia which continued	

Min-U-Scripto

(22) Page 75 - Page 78

-

ŀ

	and the second	Page 79		Page 8
	unchanged and unabated?		p) device is removed.	
(E)			[7] Q: And you are not in a position to	
	the bradycardia. The damage begins after		a) give me an opinion within a reasonable	
	the 10 to 11 minutes.		H degree of medical certainty if the acute	
彻	Q: And I'm asking you, Doctor, as		(5) total asphyxia as you have defined it	
	· · · · · · · · · · · · · · · · · · ·		is continued after 2:26 for any specific	
th	this case, to tell me within a reasonable		m period of time; is that right?	
[8]	degree of medical certainty when in this		8 A: Well, actually, 1 am. In other	
	fetus' time in utero was the acute total		e words, I certainly cannot tell you what the	
{1 D}	asphyxia as you describe that present and		no heart rate was because there is no	
{11[continuing thereafter unabated.		(1) information on that. The fact that when	
(12)	A: Okay. So I define acute total		us the child is born, he is asphyxiated and	
[13]	asphyxia in this setting as heart rate		has the acute picture, I know that this	
[14]	below 60, and that starts then at just		14 process was significant for the baby.	
[16]	before 2:21		(in Q: And when did that process take	
[16]	Q: Have you finished your answer,	4	is place in terms of when it began and how	
	Doctor?	1	(1) long you can state within a reasonable	
[18]	A: Yes.		in degree of medical certainty based upon the	
(19)	Q: I'm sorry; I thought you might		in evidence it continued?	
20	have been still working on it.	1		
(2±)	A: No.	1		
1221	Q: All right. So the acute total		pg before, when you're below 60, that's	
•••	asphyxia according to your belief within a		22 potentially injurious. You have to be	
	reasonable degree of medical certainty or	E	is there for 10 to 11 minutes before the	
	probability starts at 0221; correct?		(24) onset. So 10 minutes after 2:21 would be	
	<u>F</u>		25 2:31, and the beginning of the damage in my	
	A: Yes.	Page 80		Рада Ві
{ 1 }	A: res. Q: And does it cominue for a		ii) opinion would have occurred around that	
[?]			z time,	
	period of time thereafter until the acute		p) Q: The beginning of the damage	
	total asphyxia is no longer affecting the		14 would have occurred around 2:31, Doctor?	
	baby and ongoing?		45] A: Yes.	
樹	MR. HILTON: I'm sorry; can		8) Q: All right. That's what I was	
	you read that question back?	1	in trying to get to	
(6)	(The court reporter read the		iei A: Okay.	
(P)	pending question.)		Q: — so I could ask you some more	
[10]	MR. HILTON: Objection to		10 questions, because I wasn't sure in your	
[11]	the confusing form of the question.		19 report what you meant.	
[12]	Go ahead and answer it.	1	A: Okay, It's not in there.	
]13]	Q: (Continued) Thea, Doctor, I	4	18 Q: All right. Would you kindly	
[14]	don't want you to answer it if it's	ſ	is tell me, Dr. Clancy, what you understand	
[16]	confusing to you, sir, please.	1	in the intrauterine resuscitation efforts were	
[16]	A: I think I know what you're		of for this fetus in the time frame from 2:21	
(17)	asking.	ſ	in to 2:31 on 1/30/93?	
[18]	Q: Okay.	(A: I don't actually have an opinion	
[19]	A: Once it hits 60 beats per minute	1.	a about that. I never considered that.	
[20]	at 2:21, it basically remains at or below	1		
	60 as long as we have information.	1.	b c c c c c c c c c c c c c c c c c c c	
22	Q: And how long do we have		en opinion, Doctor, I didn't ask you that	
	information, Doctor?		29 question. My question is and I will	
(24)	A: We have specific information		a restate it rather than having it read	
• •	only for five minutes because at 2:26 the		a back - tell me what your understanding is	
	AND THE REPORT OF A DECRUSE WE ALLO THE	1	of what actually was taking place in terms	

Min-U-Script®

(23) Page 79 - Page 82

Ļ

1

R.E. Sedwick, M.D., et al.

April	6,	2001

-

. .

		Page 83		Page 8
	of introuterine resuscitation for the fetus	j	is A: Yes. I think maybe they're	
	in the time frame from 0221 to 0231 on		ra really linked together.	
[3]	January 30, 1993.		p) Q: Okay, Let's do C with the	
[4]			#] understanding that they work together in	
[5]	information still.		is your concept of it, sir.	
(1)			(6) A: All right.	
(7)	records in that time frame, Doctor?		m Q: And that's the infection caused	
(4)	A: Oh, I'm sure I did, But, in		(a) by the chorioamnionitis?	
(P)	other words, that's not pertinent to my		M A: Correct.	
103	opinion 25 to what caused this. So if it		(10) Q: Go ahead and tell me about that,	
11)	was in one ear, it's out the other right		[11] Siff.	
(2)	now. I just don't remember what was done		(12) A: Basically this was a	
13}	or what wasn't done.		13 pathological diagnosis and there were no	
4]	Q: Well, once acute total asphyxia		14) other specific diagnoses other than the	
16j	begins, as you say it did begin at 0221,	1	as chorioamnionitis. In other words, there	
	does it continue without abatement even in	i	ing was not a diagnosis of abruption or	
	the face of effective intrasterine	i	17 infarction of the placenta, and that was	
ı AÇ	resuscitation efforts or can the acute		put also true from the obstetrician. I don't	
n Brž	total asphyxia be affected and diminished	i	ing think they saw any other mechanism. So, at	
	in its impact on the fents with effective	1	po any rate, this was a pathological	
	intrauterine resuscitation, sir?		po diagnosis; it was nor a clinical	
.z)	A: Well, I mean, if there is a way		27 diagnosis. The mother did not demonstrate	
31	to reverse the process, for example, if it		any the cardinal features of clinical	
	was cord positioning and you repositioned		pa choriozmnionitis.	
	the mother, that could stop the process.		[25] Q: Which are?	
	So you are not guaranteed to have that	Page 84		Pag
	happen by trying to resuscitate, but I		m A: Fever over 100, leukocytosis,	
	suppose it's possible that if you restored]	ra foul-smelling amniotic fluid, tenderness	
	the circulation to the baby, that it would		probably would be the main findings.	
	•		(4) Q: Did the fetus demonstrate any of	
	interrupt the asphyxial damage.		is the clinical findings of infection due to	
句	MR. WALSH: Mark that also,		is chorioamnionitis?	
	picase, Madam Reporter.	1	m A: I don't think so	
BJ	Q: Let's go on to Category B of		a Q: Did you check?	
		1	-	
	your answer, Doctor, please.		m A: Yes. I mean, the spinal fluid	
(7)	A: Okay.		-	
ក្ រ)	A: Okay. Q: just give me a subheading for B,		m A: Yes. I mean, the spinal fluid	
明り約	A: Okay. Q: just give me a subheading for B, please.		M A: Yes. I mean, the spinal fluid or and the CBC's and so forth. I mean,	
切り約判	 A: Okay. Q: just give me a subheading for B, please. A: Okay. B is going to be spasm of 	1	 A: Yes. I mean, the spinal fluid or and the CBC's and so forth. I mean, or they're always under the directive to, 	
可以称为月	 A: Okay. Q: just give me a subheading for B, please. A: Okay. B is going to be spasm of the umbilical cord. 		 A: Yes. I mean, the spinal fluid and the CBC's and so forth. I mean, they're always under the directive to, quote rule out sepsis, and h's a 	
明习幻刘明	A: Okay. Q: Just give me a subheading for B, please. A: Okay. B is going to be spasm of the umbilical cord. Q: All right. Would you lay out		 A: Yes. I mean, the spinal fluid and the CBC's and so forth. I mean, they're always under the directive to, a quote rule out sensis, and it's a necessary reflex because you never know at 	
切り的刘均的时	A: Okay. Q: Just give me a subheading for B, please. A: Okay. B is going to be spasm of the umblical cord. Q: All right. Would you lay out your bases for that particular point.		 A: Yes. I mean, the spinal fluid and the CBC's and so forth. I mean, they're always under the directive to, a quote. uile out sepsis, and it's a a necessary reflex because you never know at the beginning. Burl don't believe and 1 	
切り的刘均的时	A: Okay. Q: Just give me a subheading for B, please. A: Okay. B is going to be spasm of the umbilical cord. Q: All right. Would you lay out your bases for that particular point. Doctor:	, , , , , , , , , , , , , , , , , , ,	A: Yes. I mean, the spinal fluid and the CBC's and so forth. I mean, and the CBC's and so forth. I mean, a quote rule out sensis, and it's a quote sule out sensis, and it's a a the beginning. But I don't believe and I as don't think anyone there thought that the	
切りかりりり	A: Okay. Q: Just give me a subheading for B, please. A: Okay. B is going to be spasm of the umblical cord. Q: All right. Would you lay out your bases for that particular point.		A: Yes. I mean, the spinal fluid or and the CBC's and so forth. I mean, in they're always under the directive to, in <u>unce, rule out sensis, and it's a</u> in <u>necessary reflex because you never know at the believe and I</u> so don't think anyone there thought that the is baby was septic and that was the basis for	
のりのりりりり	A: Okay. Q: Just give me a subheading for B, please. A: Okay. B is going to be spasm of the umbilical cord. Q: All right. Would you lay out your bases for that particular point. Doctor:		 A: Yes. I mean, the spinal fluid and the CBC's and so forth. I mean, they're always under the directive to, they're always under the directive to, and construction of the spinal fluid is a an necessary reflex because you never know at the beginning. Bur I don't believe and I don't think anyone there though that the baby was septic and that was the basis for the problems. G: Okay. Now, do you have any 	
切りかりりの(7) り	A: Okay. Q: Just give me a subheading for B, please. A: Okay. B is going to be spasm of the umbilical cord. Q: All right. Would you lay out your bases for that particular point. Doctor? A: Actually, this in my mind is		A: Yes. I mean, the spinal fluid and the CBC's and so forth. I mean, in they're always under the directive to, a quote. ulle out sepsis, and it's a quote. ulle out sepsis, and it's a in necessary reflex because you never know at the beginning. Bur I don't believe and I he beginning. Bur I don't believe and I he beginning bur I don't believe and I he beginning the the the basis for in the problems. (a) Cheap. Now, do you have any the other statements that you believe are	
切りかりりり 17 り 1 1 1 1	A: Okay. Q: Just give me a subheading for B, please. A: Okay, B is going to be spasm of the umbilical cord. Q: <u>All right. Would you lay out</u> your bases for that particular point <u>Doctor</u> : A: Actually, this in my mind is connected to the chorioamnionitis. But the		 A: Yes. I mean, the spinal fluid and the CBC's and so forth. I mean, and the CBC's and so forth. I mean, and the CBC's and so forth. I mean, a quote, rule out sepsis, and it's a a quote, rule out sepsis, and it's a a fine beginning. But I don't believe and I a don't think anyone there thought that the baby was septic and that was the basis for the problems. C: Okay, Now, do you have any o ther statements that you believe are pertinent to B or C, the spasm of the 	
切りお为内的 81 万 4 6 6 1	A: Okay. G: Just give me a subheading for B, please. A: Okay, B is going to be spasm of the umbilical cord. Q: <u>All right. Would you lay out</u> your bases for that particular point. <u>Doctor</u> : A: Actually, this in my mind is connected to the chorioamnionitis. But the point there is simply that the umbilical		 A: Yes. I mean, the spinal fluid and the CBC's and so forth. I mean, and the CBC's and so forth. I mean, a quote, rule out sepsis, and it's a a quote, rule out sepsis, and it's a a the beginning. But I don't believe and I baby was septic and that was the basis for the problems. C: Okay. Now, do you have any other statements that you believe are as pertinent to B or C, the spasm of the a umbilical cord or the chorioamnionitis 	
「 り り り り り り り り り り り り り	A: Okay. Q: just give me a subheading for B, please. A: Okay. B is going to be spasm of the umbilical cord. Q: All right. Would you lay out your bases for that particular point. Doctor: A: Actually, this in my mind is connected to the chorioamnionitis. But the point there is simply that the umbilical veins can go into spasm when there is an		 A: Yes. I mean, the spinal fluid and the CBC's and so forth. I mean, they're always under the directive to, a quote, rule out sensis, and it's a a necessary reflex because you never know at a the beginning. But I don't believe and I a don't think anyone there thought that the baby was septic and that was the basis for the problems. C: Okay. Now, do you have any other statements that you believe are pertinent to B or C, the spasm of the a umbilical cord or the chorisoamionitis which caused the spasm? 	
切りかりりりりたり いのりしざい	A: Okay. Q: Just give me a subheading for B, please. A: Okay. B is going to be spasm of the umblical cord. Q: All right. Would you lay out your bases for that particular point. Doctor: A: Actually, this in my mind is connected to the chorioamnionitis. But the point there is simply that the umblical veins can go into spasm when there is an infection, and that ties us into Part C,		 A: Yes. I mean, the spinal fluid and the CBC's and so forth. I mean, and the CBC's and so forth. I mean, a quote, rule out sepsis, and it's a a quote, rule out sepsis, and it's a a the beginning. But I don't believe and I baby was septic and that was the basis for the problems. C: Okay. Now, do you have any other statements that you believe are as pertinent to B or C, the spasm of the a umbilical cord or the chorioamnionitis 	

Foster Court Reporting Service, Inc.

Min-U-Script0

(24) Page 83 - Page 86

	Page 87 Page 89
 ord as well. I have my personal knowledge 	IN Q: Here again, I have to tell you
a about this causing spasm. I also furnished	z that I don't think you've answered my
3) this paper which I know you didn't receive	p question.
a) before today. But be that as it may, if	(a) A: Okay.
st describes how infection causes spasm in the	(5) Q: My question is: Tell me what
(c) VCSSE	is facts you have and what information you are
7) Q: Tell me when the spasm first	relying on to tell me that it is the
a began in the umbilical cord	a umbilical cord pathology that supports your
A: I con't know the timing of	e opinion that there were spasms caused by
o) that.	na choriormnionitis.
 Actually, let me go back, if 	A: Well, spasm is a functional
z I could.	ing term, it's a physiological term, first of
1 Q: Sure.	in all, so that's not going to show up on any
A: You asked me before about do l	ing path report. Like a muscle spasm, if you
s know the cause of the first three and I	its look at the muscles under a microscope, the
si said, no. I don't.	ing muscles look the same, there's nothing
7] Q: Yes, that's what you said.	117 different about the way they look. The
 A: And the reason Lanswered that 	ing material about the way they took. The
 way was because all we know is that the 	is spasm is a functional disturbance. So I m
uj heart rate went down. We don't know was it	[20] clinical picture for the spasm because
a spasm from infection, was it the	24 blood vessels go into spasm.
2) positioning of the baby, or whatever, Any	
a) of those could be possible. But to say 1	
4) know the specific one, no, I don't know the	(20) microscopic evaluation of the umbilical
si specific one.	pse cord in the Rockingham Memorial Hospital
	ps pathology report?
	Page 86 Page 90
The reason I think that the	(i) A: It's not described. It's listed
2) terminal one was from the infection was	p as part of the specimen, but it's not
a) simply that they didn't describe any occult	sy described.
4) cord prolapse in the baby at that time of	H Q: Okay. Have you reviewed
s birth. So that is a possible mechanism.	is Dr. Keough's microscopic assessment of the
5) There was no evidence for that. What there	se umbilicat cord slice?
7] was evidence for was the pathology of the	m A: No.
i placenta and the umbilical cord.	(a) Q: Jell me how many spasms of the
9 G: Okay. Weil, share with me all	19 umbilical cord there were that were
of the specifics that you can state	ing implicated or involved in the decrease or
regarding the pathology of the umbilical	m blockage or cessation of perfusion through
a cord that support your opinion.	ing the umbilical cont.
A: Okay. This is Page 50018.	(1) A: At any time or do you mean at
4) Q: Can you tell me what the title	(14) this moment?
n of the page is, Doctor, since I don't have	(15) Q: Well, at the moment or moments
n those numbered pages?	ing, which preceded the onset of acute total
A: This is from the Department of	in asphysia which you say happened at 0221 and
9 Pathology, Rockingham Memorial Hospital,	ing continued at least until 0231.
η and this is the pathology report for — the	pm A: I have no way of quantifying
9 patient is the mother — Donna Jean	ing them other than to say I believe there was
9 Miller. The microscopic diagnosis is	121) at least one.
a diffuse acute chorionitis.	22 Q: And tell me when that one spasm
 Q: Are you finished your answer. 	iza occurred.
9 sir?	rag A: Well, prior to the onset of the
A: Yes.	ps bradycardia.

Foster Court Reporting Service, Inc.

Min-U-Script®

(25) Page 87 - Page 90

÷

÷

Ļ -

		Page 91		Page 9
[1]	Q: Can you state that within a		in cord protapse or an elbow being on it?	
	reasonable degree of medical certainty,		A: Well, certainly those were the	-
(3)	Doctor?		a same considerations for the earlier	
[4]	A: Well, I can certainly state that		in bradycardia and that's why they put the	•
(a)	the spasm had to precede the bradycardia.		is mother in a different position, gave her	
[5]	O: Right.		10 oxygen and fluids and so forth. And those	
7	A: But how long before I wouldn't		m heart rates always responded in a short	
Ø}	know.		[6] period of time. So any time there's a	
Bİ	Q: You can't give me any time		m bradycardia, there's always possible	
	period when the spasm that you believe		nn causes/possible reasons for it, and that's	
	occurred in the umbilical cord prior to		ns why they responded the way they did when	
5;	2:21 occurred; is that right, sir?		ng the previous three bradycardias occurred.	
3}	A: I guess the question is how fine		na So my point is that at the	
4) -	a point to put on this.		(14) moment of the bradycardia, whether it be in	
S1	Q: I want you to put as fine a		(18) this case a spasm or an elbow or a	
4)	point on it as you are capable, Doctor.		ne prolapse. I don't know how much before	
7]	A: Well, you know, within a couple		(17) them. That was what your question was. I	
	minutes of the bradycardia, but not an hour		on would think a minute or so.	
	before, I mean, it's not going to have a		(in) Q: No, no. My question wasn't that	
	delayed effect. It would be in close		29 at all, Doctor. My question had nothing to	
1)	proximity to the bradycardia.		izi) do with a cord prolapse or an elbow being	
2)	Q: All right. Go out on a limb,		22 on the cord.	
3]	Doctor, and give me a time that you think		22 My question is this: Are	
*]	it happened.		pay you able to mate when prior to 0221 on	
5]	A: This would be pulling a number		125 January 30, 1993, the time which you have	
		Page 92		Page
13	out of the air and I'm not really sure	•	m told me is when the scute total asphyxia	
21	that's what you want.		m was present for the first time, that the	
31	MR. HILTON: Object to the		a umbilical cord spasm you have said resulted	
4)	form of the question.		m in the scure total asphyxia occurred? Do	
5]	Go ahead.		o you understand that question?	
町	Q: Isn't that what you've done,		in A: Yes.	
n	Doctor, is to come up with the conclusion,		m Q: All right. Would you answer	
(¥)	that sometime before 2:21 when the acute		in that, please?	
[9]	total asphyxia was in being, that a spasm		p A: Okay Again, we don't know,	
٥j	had happened beforehand that caused it?		ng whether it be a spasm or any other	
r;	Correct?		in mechanism, that exact onset. I think it	
21	A: Yes.		ng would be a conservative estimate to say	
35	Q: All I'm asking you to do is tell		us within a minute or so of the bradycardia	
43	me when that spasm occurred, Doctor,		ing the event occurred.	
ទា	A: Weil, again, whether you say		115 Q: Well, Doctor, what is it that	
6)	it's a spasm or a cord prolapse or the		ng caused the acute total asphysia to result	
	clbow's on it, it's hard to know that All		in from the bradycardia?	
ŋ	we have here is a heart rate. So I think		na MR. WALSH: Strike that	
	it would be within a minute or so of the		in Q: Are you saying that the acute	
	onset of the bradycardia, whatever the		reg total asphyria was caused by bradycardia?	
	EVERI Was.		20 A: Yes.	
<i>.</i>	Q: Are you now saying, Doctor, that		 Reg Q: Severe injurious bradycardia; 	
	the precipitating event of the decrease or		23 COFFECT?	
	blockage of the blood flow through the		pa A: Yes.	
*	umbilical cord might have been due to a		P4 A: 105. P3 Q: Are you saying that the severe	

Miller v. R.E. Sedwick, M.D., ci al.

RODERT R. Clancy, M.D. April 6, 2001

1

÷.

	Paga 95 Paga
(i) injurious bradycardla was caused by a spasn based by a spasn	
(2) in the umbilical cord brought on by	a umbilical cord did this spasm occur,
(a) chorioamnionitis?	pi Doctor?
(4) A: Yes.	H A: I don't know that.
[5] Q: Are you saying that the severe	5 Q: Why don't you know that?
(s) injurious bradycardia was caused by a cord	[5] A: Why did you ask that? I mean,
prolapse?	p) there's no way of knowing that.
(a) A: No. Was the bradycardia from	[8] Q: Well, how would I know you
iej prolapse? No.	sy wouldn't know that?
[10] Q: Are you saying that the event in	no A: Because it's a functional
(1) the range of 2:19-2:20 that we have been	[14] reaction; it's not an anatomical reaction
the talking about of severe injurious	12 Q: What do you mean it's a
(13) bradycardia was brought on by something	(13) functional reaction"?
(14) like an elbow compressing the umbilical	[14] A: A blood vessel that goes into
(45) cord?	us spasm is a functional disturbance. Okay?
(19) A: No, I'm not.	[16] Q: Okay, Which blood vessel went
[17] Q: There is no question in your	in into spasm in the umbilical cord, Doctor?
iter mind that the severe injurious bradycardia	tial A: The vein.
(10) was brought on by a spasm of the umbilical	19 Q: How many veins are there in this
201 cord and you can state that within a	po umbilical cord?
gau reasonable degree of medical certainty?	(21) A: OBC.
(22) A: Within a reasonable degree of	27 Q: What happened to the vein that
333 medical certainty I can.	izi went into spasm in the umbilical cord.
[24] Q: And that's a spasm that happened	[24] Doctor? What went on with it in terms of
(25) about a minute before the bradycardia	ize the process of spasm?
	Pege 95
18 began, Doctor, is that right?	
 A: That's my opinion, yes. 	10 A: Veins react to their
(3) Q: All right. Now, how long did	A cuvironment. For example, if there's
a that spasm continue, Doctor, once it began?	a infection in the environment or chemical
5 A: I have no way of knowing.	H) mediators, the size of the veins will
 (6) Q: Why don't you have any way of 	is change, just like if we walk outside, our
	is hands may get blue, or if we blush, our
(7) knowing, Dortof?	m face may get red, depending on how the
(B) A: Well, first of all, we lose the	(a) veins dilate or contract. So veins have
on information on the heart rate, and that's	m the capacity to change their shape and
(10) the only gauge we have on that now through	ing their tension depending on their
ing the unabilities.	(1) environment. So with contraction of the
(12) G: All right. Have you answered?	112 vein or spasm of the vein, flow through the
(10) Ar Yes.	(13) vein is reduced or stops.
[14] Q: Where on the umbilical cord did	14 Q: And once a spasm begins, does it
(15) the spasm occur?	ing take something, some action, to cease the
on A: It would be the venous system.	ing spasm in the vein of the umbilical cord, in
(17) Q: I didn't make that clear Thank	11 this instance, from continuing?
Hu you for the answer, but I am going to ask	(14) A: I suppose that when the trigger
19 another question.	ing is removed, when the inflammation is
1201 A: Okay.	m removed, that the vein will eventually
29 Q: The umbilical cord is a certain	124 relax. But that's not like a
iza length attached to the placents and then	122 minute to-minute thing; that can go on for
) pay the insertion in the umbilicus of the baby;	re a considerable period of time.
	rel a considerable period of time. rel Q: Where do you get that

Foster Court Reporting Service, Inc.

Min-U-Script®

(27) Page 95 · Page 98

R.E. Sedwick, M.D., et al.

\pril	6, 2	00	3
-------	------	----	---

	Pags 99		
A: From the paper that you haven't		[9] A: No. You clamp the cord so that	Page 101
a read yer.		a the arteries and the voin are all included.	
a Q: The paper I received this		g Q: In this case you are not	
n morning?		is testifying within a reasonable degree of	
A: Yes		is medical certainty that there was any spasm	
s) Q: Well, was this a spasm of the		in the umbilical arteries, are you?	
n umbilical vein which amounted to a total		[7] A: No.	
a occlusion of the umbilical vein?	i i i i i i i i i i i i i i i i i i i	[9] Q: Do you have any evidence	
A: Well, a spasm will not actually		whatsoever that there was any spasm in the	
occlude it. I mean, it will reduce flow		or umbilical arteries at or around the time of	
ompletely or markedly. But to me	1	of the onset of the acute total asphyxia?	
occlusion is like, you know, hardening of	1	A: No, there is no evidence.	
a the arteries where there's physical stuff	1	a Q: What was it exactly that caused	
) in there.	1	4 the umbilical artery to go into spasm and	
9: Oh, I see, is this spasm that		is reduce the blood flow of oxygenated	
you contend occurred in the umbilical vein		la blood	
9 a spasm which constricted the umbilical	1	A: You said artery. You mean	
wein so that there was no blood flow,	100	s vein?	
) oxygenated blood flow, through the		of Q: Vein to go into spasm - strike	
n umbilical vein?		20) that. I'll make it clear.	
A: It certainly constricted the		29 What was it about the	
r flow. To say zero flow, I don't think		zz chorioamnionitis that caused the umbilical	
anyone could answer that. But reduced	į	rsy voin to go into spasm and reduce the	
flow, yes.	ļ	24 oxygenated blood flow by 90%?	
9 Q: Tell me how much of the flow of		A: The process is that within	
	Page 100		Page
) the oxygenated blood through the umbilical		inflammation there is a great deal of	
a vein occurred at the site of the spasm,		iz change in the environment where the	
) Doctor. And you can give me that in your	1	r infection is. The most obvious thing would	
best estimate of percentage of the decrease		4 be the pus cells and so forth, But what's	
) in normal blood flow,	1	a created in the environment are vasoactive	
A: I would estimate that more than		e substances.	
90% reduction would have to occur to		7) The simplest example for you	
produce a bradycardia.		a and I would be something even like a	
Q: How do you go about this		n beesting. All of a sudden it's red and	
intellectual process of estimating that		n puffy because there's inflammation there.	
information, Doctor?	ŗ	n The body responds to a foreign substance,	
A: Okay. This comes back to the	ł:	z whether it be an infection or a beesting or	
Myers experiments and the point there was	ļ.	a whatever.	
that they actually did a series of	i c	4 So here with the infection	
i umbilical cord clampings to see what level		a is created within that environment	
of reduction of flow was necessary to		vasomotor mediators. This is the same	
produce the end results. And the figure	ļr	n thing even for people in our age, like	
was when there was 90 or more reduction in	ļ[1	a heart attacks are more common when you're	
flow for the 10 or 11 minutes, this had an	ןן	H sick.	
effect on the fetal monkey's heart rate.	1,	g Q: How does that	
9 0: What were they clamping, sir?		1 agent/substance/whatever it is that is	
A: The umbilical cord of the fetus,	12	a causing the spasm of the umbilical vein get	
) the monkey's feaus,	10	a to the site where it causes the spasm?	
Q: In the Myers study did they	p.	• • • • • • • • • • • • • • • • • • • •	

(28) Page 99 - Page 102

.. ;-

ŀ

	Page 103 Page 10
(1) pocket of water. The umbilitus is bathed	(9 inflame those, wouldn't it?
iz; in the amniotic fluid, it also inserts	a A: Yes, I think it certainly
(a) into the amnion, so now it is physically	pi could.
(4) anached.	4 Q: And it could be determined on
(s) Q: What's the amnion that it's	is microscopic evaluation if it was present,
(e) physically attached to something? What are	is couldn't it?
(7) you talking about?	A: It could, yes.
(a) A: In other words, the cord itself	B Q: And the same holds true for the
(e) is physically anached to the placenta.	in uterine vein: that on microscopic
(10) Q: Yes.	ing examination this sort of pathogen, if
(ii) A: So one way of how do you get the	(in present, could be found; correct?
ng infection there is, well, they're together,	A: You mean umbilical vein?
(a) they're connected. Plus everybody's in	G: Umbilical vein, yes. Thank you,
14) this sea. The amniotic fluid, it's	ise Doctor.
(18) infected, too. So the infection comes	ing A: Sure, Right, I mean, you could
(15) through the cord. The cord is bathed in	ing see inflammation of the vein.
(17) infection.	ng Q: Okay. You taik about "The
(18) Q: Well is the infectious pathogen	ing pathological condition of chorioamnionitis
my in the amnicule fluid? Is that what you're	ing can cause abnormalities of the umbilical
pop saying?	pay coro in your report. What do you mean by
[21] A: Yes, I mean, it's in the	21 that, Doctor?
ga amniotic fluid. It's in the chorion. It's	27 A: Funisitis or cord inflammation.
gap in the amplon.	27 G: And in particular you say: "It
(24) Q: Well, how does it get from the	24 can cause irritation of blood vessels in
get chorios to the umbilical vein?	ps the umbilical cord leading them to go into
	Page 104 Page 10
 A: Again, the whole cord is barhed 	14 spasm." What do you mean by that, sir?
m in this fluid so it invades from outside,	a A: What we have been talking about,
(a) in other words, from the outside walls in,	is the venospasm of the umbilical vein.
4] and also by direct extension, so-called	in Q: Anything eise?
(5) funisitis, directly from the placenta.	IA A No.
(a) G: Do you have an opinion as to	R Q: And you say: "When this occurs,
m what route the infectious pathogen took to	in there is a sudden and sharp reduction of
(*) cause the spasm?	in blood flow between the haby and the
10 A: No.	m placenta, as occurred in this case." What
10 Q: Do you have an explanation as to	ng do you mean by that?
[1] why the umbilical arteries didn't go into	nn A: The 90% reduction.
in spasm?	12 Q: Was this spasm of the umbilical
13 A: Well, I don't know how you would	us wein similar to a compression of the
[14] recognize spasm in the arteries. In other	(4) umbilical vein by trauma by something, an
ps words, the arteries are leaving the baby	in elbow being placed on it, a prolapse?
page going to the placenta. So if there had	A: It could have the same effects
117 been, I'm not sure what sign you would find	en an spasm.
pat to detect that. The vein is taking	the Q: And when there is this spasm or
(14) everything back to the baby, so if you have	ing compression of the umbilical vein, what do
pq a spasm there, now you are cutting off the	you see the fetus' reaction to be in the
pa good blood and the good oxygen supply.	28 2reas that you can assess?
22 Q: Well, if it was an infectious	A: Well, this is really not
ra) process and a hostile pathogen insofar as	27 different than the other question; in other
(24) what is normal and it did come into one of	pa words, when we looked at the bradycardia
ps; the two umbilical arteries, it would	29 charts and you asked me what happens to the
	In and a store to a source our man mappens to our

	Page 107		 Dr
a baby. So it's a stress. There's the) cardiovascular system? Probably the	Page 10
p physiological response to stress. There's		p carliest thing would be that the coronary	
a) the biochemical response to stress. So		p) entries of the baby's myocardium dilate,	
a) this is all mediated through the		(a) they're trying to get whatever blood they	
5) cardiovascular system of the child. So		is can into the heart, and there is a shunting	
s) whether it be an elbow or 2 prolapse or 2		is of the venous blood away from internal	
7) spasm, if the baby gets bradycardic, then	7211.	organs such as the GI tract, liver,	
a) they have to turn on their protective	the feature	in kidneys, spleen, So in a sense they're	
a) reflexes to minigate against that	Protectioni Replaces	p robbing Peter to pay Paul.	
Q: When in the 0200 time frame do	- with	a Q: Now, Doctor, when there is	
y you see a fail in the heart rate below 100.		ng reduced umbilical blood flow through the	
2) Doctor?		a umbilical voin by this spasm that you	
A: What was the panel on that?		ing contend occurred and caused injurious	
MR. HILTON: 2 o'clock is		ing bradycardia which went into acute total	
6) 90392.		lys asphyxia, is there redistribution of blood	
A: (Continued) I'm sorry; you will		ing flow to fetal organs?	
7) have to ask your question again.		na A: There's redistribution from	
oj Q: Was there a fail in the fetal		ng fetal organs.	
be heart rate below 90 in the time frame of		(18) Q: Well, what do you mean "from	
of approximately 0200? By that I mean on		izo fetal organs"?	
n either side of it, Doctor, just to		29 A: From the GI tract and the liver	
2) A: Yes; at 2:02.		zz and the kidneys to the myocardium and to	
q: Does that continue through the		ra the central nervous system.	
4) end of the tracing that's available to you?		reg Q: Okay, Well, is the	
si A: Well, again, I have a normal		26) redistribution of the blood flow different	
·	Page 106		Page
1 tracing and then it disappears and all I		in this acute total asphyxia than that	
a) have here says: Deceleration to 40 to 50.		g which is observed during maternal	
a) So if it's 40 to 50, cenainly it's below		ny hypoxemia?	
4) 90 at that time.		(1) A: You are going to have to be more	
9 Q: No. I'm sorry, Doctor; I didn't		is specific than that.	
n make myself clear.		in Q: Do you know what maternal	
y You see a heart rate below		(7) hypoxemia means in the context of a mother	
a) 90 at about 2:02; is that what you told me?		is, with a fetus in the stage of gestation such	
a) A: No. I mean, the graph itself is		p as this one was?	
not below 90 anywhere along that time.		10 A: I do understand what maternal	
1 Q: Oh, when you said the heart rate		in hypoxemia is.	
n was below 90 at 2:02, where did you get		ng Q: Tell me what you understand	
a that factual information?		is maternal hypoxemia is in that setting.	
A: Because the nurse writes in:		14 A: Low oxygen	
9 Deceleration to 40's and 50's.		ns Q: Low oxygen in the mother?	
Q: It's not shown on the graph?		ps A: Right,	
A: It's not shown on the graph.		107 Q: Which then has an impact upon	
9 Q: All right. Thank you.		is the uteroplacental perfusion; correct?	
Now, tell me what you		ng A: Well, has an impact on the	
a understand happens to the fetal circulatory		23 oxygen delivery to the I mean, perfusion	
system in terms of the circulation of blood		pij is how many gallons of blood go there.	
n when the blood flow in the umbilical vein		az Q: All right.	
) is reduced as you say it is reduced by this		23 A: Hypoxia is just the gas tension.	
) spasna,		[14] Q: When there is hypoxemia based in	
A: So what happens to the			

Foster Court Reporting Service, Inc. Min-U-Scripts

(30) Page 107 - Page 110

÷

1

:)

1

		Page 111		Page 113
blood; corr	ect!		an umbilical problem where the flow is not	
A: Yes.	Set Manual Tantanana	q	normal?	
-	zht. Now, is there a	6	•	
	Doctor, between the	P) again.	
	on of blood to fetal organs	择	MR. WALSH: Read it back to	
	t is reduced umbilical cord flow	1ª	Dr. Clancy,	
	a spasm as compared to reduced	P	(The court reporter read the	
	fetus because of maternal	p	pending question.)	
••	? That's my question.	fe	 A: (Continued) That implies to me 	
-	thi. So let me answer it	115	you are saying now the mother has hypoxia	
	robably, no, there is no	[11]	and there is	
	and the only reason 1'm being	(12	0: No.	
•	t this is that, again, you're	(13	A: That's what the question says.	
saying hype		[14	 Q: Then I'm glad you corrected me. 	
G: Hypo:		{16		
· ·	xemia or whatever.		situation: the blood flow to the fetus is	
	it's a term of art, isn't		affected by a spasm such 28 you've	
in)			described. How is the blood flow to the	
-	posed to ischemia. Okay?		brain of the fetus affected in that	
-	nce between the two.		instance as compared to how it would be	
	w.That's why I'm asking	(21	affected if there was maternal hypoxemia?	
the questio		122		
	ght. Well, if there's no	2	also I don't know because Tve never seen a	
	n perfusion to the baby, it's	5 4	Give of pluce insternal hypotemia.	
purely oxy	gen, I'm less sure what the organ		C Q: All right. How is the blood	
		Page 112		Page 114
rearrangen	tenis are.	h	flow increased or decreased to the heart in	, ago , a
Q: Well,	that's why I want you to	1.	that same situation?	
answer this	question -	19		
A: Okay.		1		
Q: Do	octor, as the expert witness		Doctor, I was urying to use shorthand.	
in this case	on the outcome of this child,	16	· · · · · · · · · · · · · · · · · · ·	
and I am go	oing to ask it again to be	17		
eminently f	fair to you.		blood flow, as you posit in this case,	
Is there	a difference in the		which is due to a spasm in the uterine	
redistributi	on of blood flow to fetal	4	vein, how is the blood flow to the heart	
	ween reduced umbuical blood now	1	either increased or decreased when compared	
	Diockage of the umbilical vein by		to maternal hypoxemia?	
a spasm col	mpared to the mother having	118		
maternal h	poxemia and that blood being	4° '	I can save you some questions. But since	
delivered u	o the ferus? Can you answer	1	Exe pever seen a case of maternal	
that questic	nc	1	hypoxemia alone, I won't know what it does	
A: Yes.I	don't know the answer.	2	to the head, the heart, or any other part	
I have neve	r seen a case of simply pure		of the baby. As far as I know, it doesn't	
Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party and Party	poxemia, period. I mean, I've		cxist.	
just never s		120		
Q: Do yo	u know what happens in that		maternal hypoxemia does not exist?	
	at I have just asked you about	(22		
	to either an increase or a	123	• •	
	the flow of blood to the brain	124	e e	
when the r	eduction of blood flow is due to	1.	putting a mother in a room full of nitrogen	

			······································
	Page 115		Page 11
n but with normal blood pressure and normal		in period of spasm than they normally would	
2] perfusion. Well, how do you do that? You		[2] have gotten, Doctor?	
s; know, that's not part of reality.		pi A: I think the whole baby got less	
4] Q: Okay, Is it your position in		in blood than he normally would have had.	
s this case that when there was this spasm		(9 Q: Did the whole baby get less	
n that you say happened and there was a 90%		is blood in the same proportion of reduction	
η reduction in the flow of oxygenated blood		m of the amount of normal blood supply that	
n through the umbilical vein, that certain	i	is separate organs would have gotten with	
m organs of the fetus got less blood and were		m normal blood supply?	
oj damaged?		ing A: I think the notion is that	
1) A: That's what happens in all		19 everyone is cut back because the whole	
a people or all babies.		12 supply to the baby is less. Some get worse	
 Q: Which organs got less blood and 		ny than others.	
4 got damaged?	l	Q: Tell me which ones get worse	
si A: Well, I didn't say they got	ľ	is than others.	
s damaged; I said they got less blood.		an A: Again, the kidneys, the liver,	
η Q: All right. Were there any		in and the bone marrow, the spleen have	
a organs that got less blood and got damaged		in further reduction, a disproportionate	
9 in this setting of Cody Miller?	į	in reduction; and, yes, the heart is reduced	
Main A: No, In this baby nothing was		29 as well as, yes, the brain is reduced as	
nj damaged.	5	24 well, but proportionately they're better	
2] Q: What happened to the brain?	1	22 off. And that's the idea of protecting the	
a A: Well, I thought you were talking	1	2) organism, the person's body.	
about multiorgan damage.	1	24 Q: All right. Is there any one	
5 Q: No. Is the brain an organ?		29 organ that suffers a significant reduction	
	Page 115		Page
A: Start again.		(1 of blood flow when there is reduced	
zj 🛛 Q: No. I am just asking you. I am		m umbilical blood flow as you say happened	
a not trying to be flippant, Doctor.	1	p during the spasm?	
4 A: Of course it is.		A: Is there any one organ what?	
9 Q: I am really not.		s Q: That gets significantly less	
9 A: All right. Go ahead.		m blood flow than normal when there is the	
7. Q: The brain is an organ?		m reduced umbilical blood flow that you say	
B) A: Yes, it is.		m was occasioned by the spasm of the uterine	
 Q: Did the brain get less oxygen 		artery - or the umbilical artery.	
of than normally?	a la	or A: Well, again, I think the whole	
A: Yes, it got less oxygen and it	t	n body is reduced, so all the organs have	
g was damaged in the process.		a reduction. When you say "significant," I'm	
9 G: Did other organs of the body		is not sure what you mean by "significant."	
o other than the brain get less blood than	r	4) Q: I mean by "significant" does any	
si normal?	la la	is particular organ get significantly less	
A: I think the kidneys got some	1	a blood than any other organ? Is there one	
4 less perfusion because there was reduced		on organ singled out to have a significant	
a urine output after birth.	1	is reduction in the flow of blood to it?	
 Q: Can you tell me if the kidney, 	l'	A: I guess the only thing I can say	
a the gastrointeninal tract, or the spleen	1	m is that when there's one organ that takes	
1 got less blood during this time with spasm		an it on the chin, it's more likely the kidney	
s than they would normally get, Doctor?		29 than the other organs.	
A: I think that is true.		9 Q: Doctor, after Cody's birth were	
4) Q: Can you tell me if the heart and).	there any conspicuous signs of an acute	
s the adrenals got less blood during this	ę.,	· · · · · · · · · · · · · · · · · · ·	

;

.

Min-U-Scripto

(32) Page 115 - Page 118

•

R.É. Sedwick, M.D., et al.	ACOUST R. CHARLEY, M.D. April 6, 2001

		Page 119		Page 12
(1)	A: Oh, of course.		in nature of the beast. I mean, it's nothing	ae
(7)	Q: Can you tell me what there was?		g unique to Cody Miller. It's any infant in	
[3]	A: Basically scizures, abnormal eye		s) that situation, that's the vulnerable	
[4]	movements, unresponsiveness, low muscle		H) arcas.	
(6)	tone. He needed mechanical ventilation.		15 Now, the physiology of this	
(6)	These are all the visible signs of		is supposed to be that in acute prolonged	
m	encephalopathy.		m hypotension, that the deep gray structures	
[8]	Q: Was there multisystem	· .	m are in a watershed and they're like at the	
191	malfunction of organs?	Ì	g end of the trail. They're also packed with	
(10)	A: No, not other than oliguria,		ing what are called glutamate receptors which	
	reduced urine flow.		ing are liberated in hypoxia. So they are	
[12]	Q: Are there any other reasonable		pa spilling out these toxic transmitters which	
[13]				
(14)	and the second second second second second second second second second second second second second second second		not are thriving the brainstem.	
	A: Aside from 2sphyxi2?		141 Whether that's the whole	
[16]	Q: Yes, any other reasonable		na mechanism or not, I guess in a way,	
[16]			ne operationally, even though we may not know	
	causes. A: 1 didn't see any.		pn why it settles in there, we certainly know	
[18]	•		ing that it does settle in there. The	
[19]	Q: What was the nature of the brain		ing pathology tells you that.	
	damage that Cody Miller did receive as a		29 Q: Was the brainstem of Cody	
	result of this insult you've posited		py affected?	
	happened, Doctor?		27 A: It was clinically. In other	
[23]	A: An ischemic insult, infarction		23; words, the fact that the child needed a	
	of the deep gray structures.		pa machine to breathe for him, was pooling	
[25]	Q: Was that bilaterally in the		ps saliva, had to be suctioned, would say that	
		Page 120		Page 12
11	brain or was it one-sided?		m that part of the brain is not working.	
[2]	A: le was bilateral,	{	a It's very difficult to image	
73 j	Q: Was there brain swelling?		m the brainstem. I mean, my brainstem is the	
[4]	A: Not that I know of,	1	a size of my pinky, so a newborn's brainstern	
161	Q: Did you look for it, Doctor, in		is very small. It's hard to resolve those	
163	the records?		is areas. So I don't believe they ever said	
172	A: Yes.		m that the brainstem looked abnormal on the	
(41)	Q: What is the frequency known to		is MRI, but clinically the child's brainstem	
	you in your field of medicine of the	1		
			· · · ·	
f)(P	· ·		m was functionally abnormal after birth.	
	presence of acute total asphyxia in human		 m was functionally abnormal after birth. Q: Was there any renal dysfunction 	
[11]	presence of acute total aspbyxia in human infants?	1	 p; was functionally abnormal after birth. (10) Q: Was there any renal dysfunction (11) due to this acute total asphyxiz, Doctor? 	
(† 1) († 2)	presence of acute total aspbyxia in human infants? A: The proportion of all cases?		 p; was functionally abnormal after birth. (10) Q: Was there any renal dysfunction (11) due to this acute total asphyxiz, Doctor? (12) A: There was some renal malfunction 	
[11] [12) [13]	presence of acute total asphyxia in human infants? A: The proportion of all cases? Q: Yes.		 pre was functionally abnormal after birth. (10) Q: Was there any renal dysfunction (11) due to this acute total asphyxiz, Doctor? (12) A: There was some renal malfunction (13) in the first day or so of life. The child 	
[11] [12) [13] [14]	presence of acute total asphyxia in human infants? A: The proportion of all cases? G: Ycs, A: Very small.		 pri was functionally abnormal after birth. (10) Q: Was there any renal dysfunction (11) due to this acute total asphyxiz, Doctor? (12) A: There was some renal malfunction (14) in the first day or so of life. The child (14) did have low blood pressure then, 	
[11] [12) [13] [14] [16]	presence of acute total asphyxia in human infants? A: The proportion of all cases? G: Yes. A: Very small. Q: Can you explain that any		 pr was functionally abnormal after birth. (19) Q: Was there any renal dysfunction (14) due to this acute total asphyxia, Doctor? (14) A: There was some renal mafunction (15) in the first day or so of life. The child (14) due to by blood pressure then, (15) hypotension. Of course, you have to 	
[11] [12) [13] [14] [16] [16]	presence of acute total asphysia in human infants? A: The proportion of all cases? G: Yes. A: Very small. G: Can you explain that any further, Doctor?		 pi was functionally abnormal after birth. (19) Q: Was there any renal dysfunction (11) due to this acute total asphyxia, Doctor? (12) A: There was some renal malfunction (13) in the first day or so of life. The child (14) did have low blood pressure then, (16) hypotension. Of course, you have to (16) perfuse the kidneys to make urine. So once 	
[11] [12) [13] [14] [15] [15] [15] [17]	presence of acute total asphyxia in human infants? A: The proportion of all cases? G: Yes, A: Very small. G: Can you explain that any further, Doctor? A: Oh, maybe one in ten asphyxiated		 pr was functionally abnormal after birth. Q: Was there any renal dysfunction the to this acute total asphyxia, Doctor? A: There was some renal malfunction in the first day or so of life. The child ind did have low blood pressure then, its hypotension. Of course, you have to its perfuse the kidneys to make urine. So once its the blood pressure was improved, the 	
[11] [12) [1第 [1第 [18] [18] [17] [18]	presence of acute total asphyxia in human infants? A: The proportion of all cases? G: Yes. A: Very small. G: Can you explain that any further, Doctor? A: Oh, maybe one in ten asphyxiated children in my personat experience fit this		 pi was functionally abnormal after birth. (19) Q: Was there any renal dysfunction (11) due to this acute total asphyxia, Doctor? (12) A: There was some renal malfunction (13) in the first day or so of life. The child (14) did have low blood pressure then, (16) hypotension. Of course, you have to (16) perfuse the kidneys to make urine. So once 	
[11] [12) [1等] [1等] [16] [16] [16] [17] [18] [19]	presence of acute total asphyxia in human infants? A: The proportion of all cases? G: Yes. A: Very small. G: Can you explain that any further, Doctor? A: Oh, maybe one in ten asphyxiated children in my personal experience fit this picture.		 pr was functionally abnormal after birth. Q: Was there any renal dysfunction the to this acute total asphyxia, Doctor? A: There was some renal malfunction in the first day or so of life. The child ind did have low blood pressure then, its hypotension. Of course, you have to its perfuse the kidneys to make urine. So once its the blood pressure was improved, the 	
[11] [12] [13] [14] [16] [17] [16] [17] [16] [19] [20]	presence of acute total asphyxia in human infants? A: The proportion of all cases? G: Yes. A: Very small. G: Can you explain that any further, Doctor? A: Oh, maybe one in ten asphyxiated children in my personat experience fit this picture. G: Was Cody Miller's brain damage		 pi was functionally abnormal after birth. Q: Was there any renal dysfunction (1) due to this acute total asphyxia, Doctor? A: There was some renal malfunction (1) did have low blood pressure then, (1) spotension. Of course, you have to (1) spotensite the kidneys to make urine. So once (2) the blood pressure was improved, the (2) child's urine output was fine. The 	
(11) (12) (14) (14) (16) (17) (16) (17) (18) (19) (20) (21)	presence of acute total asphysia in human infants? A: The proportion of all cases? G: Yes, A: Very small. G: Can you explain that any further, Doctor? A: Oh, maybe one in ten asphysiated children in my personal experience fit this picture. G: Was Cody Miller's brain damage in the deep brain?		 pi was functionally abnormal after birth. pi Q: Was there any renal dysfunction Q: Was there any renal dysfunction q: due to this acute total asphyxiz, Doctor? piq in the first day or so of life. The child piq did have low blood pressure then, pi hypotension. Of course, you have to pi perfuse the kidneys to make urine. So once pi the blood pressure was improved, the pig child's urine output was fine. The pi creatinine count was never abnormal. 	
[11] [12] [13] [14] [16] [17] [16] [17] [16] [19] [20]	presence of acute total asphysia in human infants? A: The proportion of all cases? G: Yes. A: Very small. G: Can you explain that any further, Doctor? A: Oh, maybe one in ten asphysiated children in my personal experience fit this picture. G: Was Cody Miller's brain damage in the deep brain? A: Yes, the deep gray structures.		 pr was functionally abnormal after birth. (19) Q: Was there any renal dysfunction (14) due to this acute total asphyxia, Doctor? (14) A: There was some renal malfunction (15) A: There was some renal malfunction (16) If the first day or so of life. The child (17) the first day or so of life. The child (19) the blood pressure then, (19) perfuse the kidneys to make urine. So once (19) the blood pressure was improved, the (19) child's urine output was fine. The (10) It looked in the labs for red 	
[11] [12] [13] [14] [16] [16] [17] [18] [17] [18] [17] [20] [21] [22] [23]	presence of acute total asphysia in human infants? A: The proportion of all cases? G: Yes. A: Very small. G: Can you explain that any further, Doctor? A: Oh, maybe one in ten asphysiated children in my personal experience fit this picture. G: Was Cody Miller's brain damage in the deep brain? A: Yes, the deep gray structures. G: Why did it happen to his deep		pr was functionally abnormal after birth. 109 Q: Was there any renal dysfunction 111 due to this acute total asphyxia, Doctor? 112 A: There was some renal mafunction 113 in the first day or so of life. The child 114 due to this acute total asphyxia, Doctor? 115 at There was some renal mafunction 116 pint day to so of life. The child 117 due to the biod pressure then, 118 hypotension. Of course, you have to 119 perfuse the kidneys to make urine. So once 119 the blood pressure was improved, the 119 creatinine count was never abnormal. 119 creatinine count was never abnormal. 119 blooked in the labs for red 120 blooked in the urine and in the	
[11] [12] [13] [14] [16] [16] [17] [18] [17] [18] [17] [20] [21] [22] [23]	presence of acute total asphysia in human infants? A: The proportion of all cases? G: Yes. A: Very small. G: Can you explain that any further, Doctor? A: Oh, maybe one in ten asphysiated children in my personal experience fit this picture. G: Was Cody Miller's brain damage in the deep brain? A: Yes, the deep gray structures.		pr was functionally abnormal after birth. 109 Q: Was there any renal dysfunction 101 due to this acute total asphyxia, Doctor? 102 A: There was some renal malfunction 103 A: There was some renal malfunction 104 in the first day or so of life. The child 104 did have low blood pressure then, 104 hypotension. Of course, you have to 105 perfuse the kidneys to make urine. So once 107 the blood pressure was improved, the 108 creatinine count was never abnormal. 109 Looked in the labs for red 101 blood cells in the urine and in the 102 laboratory I don't see h. If there is a	

Foster Court Reporting Service, Inc. Min-U-Scripto

(33) Page 119 - Page 122

. ,

-04 .

۰.

..

.

ł •

	Page 123		Page 1
blood cells in the urine, Doctor?		in you already reviewed these records and	
A: Because sometimes the kidney		in determined in your own mind based upon the	
(3) will get leaky if it's injured and then it.		p facts in the records when the onset of	
in leaks the red blood cells that are filtered		jq seizures was first noted?	
(s) through the blood into the urine.		a A: Not to the minute. I mean, I	
(e) Q: What seizures did Cody Miller		[16] knew it was very early after delivery.	
(7) have postdelivery?		(7) Q: All right. And what's the	
(8) A: I'm sorry?		is significance of the time in which the	
(a) Q: Postdelivery what seizures did		m seizures became observable and the	
oj Cody Miller have?		ing nature/frequency of the seizures?	
a) A: Postdelivery? I mean, the		ny A: Well, the fact that they're	
2] simplest answer is simply newborn seizures.		ing there tells you that there's something	
and the reason I answer it that way is that		na acute going on, whether it be asphyxia or	
a) they are fairly pleomorphic. They can look		pa bleeding or infection or whatever else. So	
s) different ways. They describe unusual		ns it says there's something serious going on	
of movements, unusual eye movements and so		ne with the brain,	
n forth. So they were different appearances.		107 Typically seizures begin	
e; Q: What was the time of onset of		ing within the first 24 hours of life in	
n those, Doctor?		in asphyzia and I don't particularly get too	
A: I have to look here. I'm sure I		129 Wrapped up in the exact moment of onset to	
nj have it labeled here.		pg count back 12 hours or anything like that.	
21 MR. HILTON: Do you want me		127 Q: Okay Was there any bleeding	
a to help him?		124 that you think caused these seizures,	
4 MR. WALSH: Sure, Go right		pat Doctor?	
s ahead.		na A: No.	
	Page 124		Page
A: (Continued) Okay, Well, I		m Q: Was there any infection that you	ræge
a) think I want to look at the nurses notes.		[2] think caused these seizures?	
y too. This is the doctor's admission notes		a A: No.	
and it simply says as part of the hospital		[4] A. No. [4] Q: When you went through this case,	
s) course shortly after birth, but they don't		is how did you analyze the records before	
s give a specific time.		is reaching your conclusions and opinions	
7) Again, I have now the		m which are in your report? Just give me a	
a newborn physical examination which is dated			
a January 30 of '93 but has no time on it		in shorthand version of how you analyzed the	
of which states; initially very depressed,		m case. ne A: Loften work backwards	
 is later some movement and respiratory effort, 			
a later tremulous with seizure activity.		(1) actually. In other words —	
a) Again, no specific time,		(12) Q: What do you mean?	
Another untimed entry		(13) A: Meaning that I actually looked	
 anosati unimee entry describes: Admission Data: Term infant, 		[14] at what the child's status was now, meaning	
e) aescrittes, Admission Data, ferm huann,		(16) he has a normal head circumference,	
		in relatively preserved -	
	1	in Q: Did you actually work backwards	
Okay, Here we go. Now,		pa in this case?	
a here's the nurses notes and the timing here	-	pro A: Yes.	
is 0314 and it says something like		120 Q: All right.	
huivering lips, eyes twitching. Now, I	-	29 A: - the cognitive ability and the	
alon't know if that's the first recorded		22 atherosis, and then the scan was deep gray,	
seizure, but it's the first one that's		izs and then I realized this was not your	
stimed that I saw.		[24] average birth asphyxia where the kids are	
Q: Mort specifically, Doctor, have		ng microcephalic and spastic and all that.	

Foster Court Reporting Service, Inc. Min-U-Scripts

(34) Page 123 - Page 126

rag.	e 127 Page 12
a) And then when I read through the perinatal	p) A; Yes.
z records, there it was, the terminal long	21 Q: Have you read Dr. Stevenson's
(a) bradycardia, and I knew that that was the	p) deposition?
4) tic-in.	(4) At I did last night.
15 Q: When you got to that point, did	(5) Q: Do you have any significant
(6) you in your own mind run through a process	is substantial disagreements with his thought
m of differential diagnoses to see what would	(7) process and findings?
(a) be on your list of most probable causes of	(e) A: I was actually a little
m that untoward event?	m confused. I wasn't convinced I really
110 A: I mean, to do a fair review you	13m understood what his opinions were. I mean,
in have to.	but I don't think anyone is saying that the
12 Q: Did you, Doctor, is my	12 child was not asphyxiated. It was not
(13) question.	(13) clear in my mind, when he was talking about
Ita AT Yes.	[14] acute asphyxiz, if he was trying to
1161 Q: And what was your thought	is distinguish between these two models that
net process on your differential diagnoses as	(16) you and I have been talking about as
in to the most likely cause that you would	in opposed to something that happened a month
(14) back as the reason?	(16) ago. That was my confusion with that.
(10) A: Well, I guess my focus was	(m) G: I see. All right.
po always on the cord and the amniotic fluid,	po In terms of the fetus, what
[21] the chorioannion, because I had seen the	(a) is circulatory decentralization?
pathology; and the other part was I guess	A: I believe what you're referring
23) the doctor who delivered the child didn't	(23) 10, if it's my same understanding, is this
24 see any other placental abnormalities. So	(24) idea of redistribution of blood flow from
125 I do have positive evidence for infection	125 the center, from the internal organs, to
Pao	e 128 Page 13
in because it's there microscopically and I	in the heart and the head.
21 have the absence of other factors by the	a Q: Have you ever read the medical
a evewitnesses there. So I thought that that	(5) literature on circulatory decentralization,
was suitable to exclude prolapse and other	M Doctor?
is things that were on the list but there was	15 A: Yes.
(6) no cvidence for them.	
7 Q: Well, other than prolapse, what	(6) G: Have you ever written on that (7) point?
(a) else was on the list of differential	
(a) diagnoses for a cause, Doctor?	a A: I don't think I've directly is written on it.
(o) A: Compression. I mean, not just a	
pij prolapse through the vagina but compression	[10] Q: With regard to Dr. Pasternak a [11] article which you had attached to your
(12) by a presenting part or	ing report, would you tell me what it is that
[12] Q: Yes, What else?	ing is in there that you believe is support for
(14) A: There's weird things like	114 your opinions, as I understand that you did
its there's hematomas -	ing indicate that was the situation? You do
(10) Q: No, I am not asking for weird	in actually say "copies of three medical
in things.	ing actions say copies of three means it
(is) A: No. I am saying there are other	
in things like there are hematomas of the cord	ine interested in the opinion on life
por or true knots and there can be fistulas and	ing expectancy, Doctor, I am not even going to
(2) there's all kinds of things.	izy ask you a question about that, sir. I am
[27] ARTE'S an arrive of tranges. [22] Q: Mechanical obstructions?	pan interested in the opinion on proximate
[22] A: Yes,	(2) cause of the damage.
(24) Q: So you have kind of told me what	(23) A: So your question is what's the
(4) W So you have kind of told life what (5) your differential diagnoses amounted to?	 pay value of this paper to me in this case? (as) G: In supporting your opinions,
	[26] Q: in supporting your opinions,

Min-U-Script9

(35) Page 127 - Page 130

÷

x =	بالمتدار والمعممات المحاج فالمتحد
R.E. Sedwick, M.D., et al.	April 6, 2001

	Paga 131		Page 133
a Doctor.		(9) wants you to list all of that stuff, too.	1.694,100
A: Right, it provides a		7 THE WITNESS: Okay.	
peer-reviewed document that describes the		a A: (Continued) I have an article	
q syndrome and that when I have analyzed the		4) from Phaten called "Intrapartum Fetai	
is facts of the Cody Miller case, that the		s Asphyxia," et cetera; an article by	
is blueprint of this child's records, profound		16 Pasternak called "The Syndrome of Acute	
7) bradycardia lasting a long time, all that		m Near-Total Intrauterine Asphyxia.*	
a) we just talked about, match this		 I have a copy of my report; 	
(a) description; and in fact the outcome of		a report from Judith Poole; 2 report from	
of these children, both with respect to	I	ing Jean Bolan; actually, a copy of an e-mail	
in sparing of the other organs, the location		in from you, Mt. Walsh.	
2) of the damage, the type of cerebral paisy	1		
is that results, even some of the conditions	1	12) Q: Me? My goodness.	
4) that gave rise to this, thrombosis of the	1	 A: You didn't send it to me. MR. THOMAS: You mailed it 	
s cord, rupture of the cord, and so forth,		MR. THOMAS: You mailed it is to Frank.	
is that there is a foundation in the medical	1		
n literature that matches my experience and	1	(c) A: (Continued) That I have just oblight and a hands up	
a) my opinions about the case.	1	n giving me a heads-up.	
9 Q: It's more of a general		a) Q: I must have been asking for an	
o confirmation of your opinions as you see		 advanced copy of my application, Doctor — A: I see. 	
n il	1-	•	
2) A: Uh-huh		en Q : — in my mind.	
aj Q: That's 2 yes?		A: Plaintiff's Supplemental Answers	
A: Okay.		m to interrogatories seven pages of	
o Q: No. That's a yes?		4 handwritten notes; a sheet from followup	
		as from the child's pediatrician; a document	
	Page 132		Page
A: Oh, you want me to give you		n called "Complaint for Medical Negligence,"	
z) Q: Well, see, you said 'un-huh' and		a and there's two of these; a report from	
a) she can't take that down, Doctor. That's	1	n Medical Rehabilitation Resource	
aj not a uscful response.		er Consultants.	
si A: Sorry.	1	s i have read the father's	
9 Q: I am not making you say	5	a deposition, Leonard Miller; the mother's	
7) anything, but was that a yes you were		7 deposition, Donna Miller; Richard D.	
a saying, that it's a general confirmation of		sy Stevenson's deposition; an article or a	
s) your opinions in your view?		»; paper about umbilical vein spasm.	
o) A: Yes, it is,	l.	σ Q: Can I see that?	
9 G: That's what I was trying to	r	n A: And these are two copies of my	
zi say.	lu lu	z CV. I wasn't sure if I had provided that	
aj A: Okay,	l:	a before,	
4 Q: Doctor, briefly tell me what	le le	9 Q: Where did the article in	
q you've reviewed in this case while I look	h	s Obstetrics and Gynecology, Scott Hyde, the	
e; at this article I got, and you can simply	1	e leading author, come from, Doctor?	
7) keep reading into the record until you run	1	7 A: From the library.	
e out of things to read into the record as I	1	e O: You got n?	
s use my Evelyn Wood technique on this		oj A: Yes.	
g article.	1.	of Q: All right. Anything else you	
1 A: All right, Two volumes of		1) have, Doctor, that you reviewed?	
a medical records, including the mother's	1.	a A: Yes; a report from James	
a maternal records, the haby's newborn	1.	n O'Leary, and that's it.	
e means and followup records.	1	 Q: Have you learned any facts about 	
MR. HILTON: I think he	1	s this case which you have utilized in	

Foster Court Reporting Service, Inc. Min-U-Scripts

(36) Page 131 - Page 134

1. P

April 6, 2001

. ‡

-1-

R.E.	Sedwick, M.D., et al.	

		Page 135		Page 137
	o formulating any of your opinions, Doctor,		(9) Q: Tell me how many, Doctor.	
	e that are facts that are not in these		m MR. HILTON: One, I think.	
	a documents that you have told me about, such		p A: One.	
	h as getting facts in letters from counsel or		4) Q: George Mays versus Rockingham	
	a a phone call from somebody, talking to		aj Memorial Hospital?	
	a somebody, saying, Doctor, I want you to		16j A: Oh, Mays, yes.	
(7	n know about this A, B, and C?		m Q: Is there some reason that wasn't	
(6	A: No.The only reports I've had		is on your list of cases, Doctor?	
(9	are from your experts.		A: If it was already over with, it	
р¢	9 Q: All right, Do you know		ng would be out of my office.	
[1 \$) Dr. Zimmerman, the radiologist?		ing MR. HILTON: I think it was	
[12	n A: Yes.		ng more than four years ago, Gerry.	
(13	a) Q: You have written together in		(13) MR. WALSH: '98. His	
[¹ 4) collaboration on matters, haven't you?		ng deposition was taken April 9, 1998.	
P 5	a A: Yes.		na MR. HILTON: Okay, My	
[*6	9 Q: How long have you known him?		na mistake.	
[17	n A: 20 years.		un A: (Continued) No. But, again,	
[10	 Q: Professionally or professionally 		is once a case is done, it leaves my office.	
() B	n and socially?		19 So what I have on my list here are any	
(20	 A: Professionally. 		req things that I can put my hands on.	
121	 Q: All right. What is it in the 		121 Q: Where does it go when it leaves	
122	anicle *A Model of Bacterially Induced		127 your office?	
123	Umbilical Vein Spasm, Relevant to Feral		27 A: In the trash,	
174	Hypoperfusion" that is relevant to your		124 Q: Well, doesn't somebody keep your	
<u> </u> 25	opinions or support for your opinions.		ps schedule and appointments, Doctor?	
		Page 136		
15	Doctor?	1 0 90 104	u Arthur Yanaca and and and he Yaka in	Page 138
[2			(i) A: No, I mean, not really, I don't	
	model for the clinical picture. The		2] necessarily have a record of, you know, the	
	clinical picture is that when there is		(3 Cases.	
	chorioannionitis, that the blood vessels		(4) Q: Do you have a secretary?	
	behave like there's spasm. This actually		A: Among five people; yes.	
	takes healthy women who have just		is Q: Does she have a calendar of your	
	delivered, so it's a human being study.		[7] schedule for being in depositions today or	
	they cut the umbilical cord after the haby		(a) being at	
	is delivered and then directly in a sense		m A: No.	
	pour on the germs to see how the blood		po O: Do you keep a calendar?	
	vessel responds. You can actually see the	1	(iii) A: She does not. My secretary is	
	vessel responds. Four can actually see the	1	ng at the University. She wouldn't keep it.	
	relevance of that,	5	its Q: Do you keep a calendar of where	
114			(14) you're going in depositions and trials?	
1.2 1.2	Q: Have you personally read any of	1	(16) At Yes.	
	the EEG tracings?	1	18 Q: Do you keep the back copies of	
[17]		[in those calendars?	
[58]			na At No.	
	read any of them in order to firm up any of	ļi	Q: Do you get the money, the checks	
	your opinions?	4	as that are sent to you by the people who	
[21]	•	ļ	an engage your services	
223			pz) A: Yes,	
	Q: You've been in cases before with	Ì	p3) Q: – and negotiate them?	
(23)				
) Mr. Hilton, haven't you? A: Yes;a couple.		24) A: Yes.	

Foster Court Reporting Service, Inc.

Min-U-Scripto

(37) Page 135 - Page 138

April 6, 2005

;

÷

...

	the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the co	Page 139	Page 1
	(4) of the year and then report on your income		iii of reduced oxygen
	21 tax that income?		p; Q: And what is ischemia to you?
	(3) A: Ycs.		a A: Reduction of perfusion, the cc.
	(a) a: Do you keep your income tax		at of blood per minute per gram of tissue.
	(s) returns for a certain period of time as		is Q: Do you remember the last
	(e) required?	i	is deposition you gave prior to today, Doctor,
	[7] A: Yes.		m in general?
	m Q: And you have those 1099's with		(e) A: Let me think.
	(#) income tax records for the last four years,		M Yes.
	(io) don't you?		(o) Q: Where was it?
	(ii) A: I do, But, again, for a case		ng A: In Philadelphia,
	(12) you might get a check from an insurance		Q: Who was it for in terms of the
	(13) company and it's St. Paul's, and I'm not		12 person retaining you?
	[34] going to be able to reconstruct from that	i	19 A: It was for Gerard Mitchell.
	(s) who the case was,		ing Stein, Mitcheil & Mezines, and it was a
	[16] Q: Well, Doctor, have you attempted		in case of kemicterus.
	17] to do that, to look at the 1099's that you		in Q: Pending in the District of
	is have from the various people who have		(a) Columbia or Maryland?
	in engaged you to see what cases they're for?		
	20) A: What I did was what I thought	5	ng A: it must have been Maryland, i ng think it was like Gaithersburg, Maryland,
	an was a reasonable effort to answer this and		pi) or something.
	(22) the answer is no, of course.		-
	23 Q: All right. That's all I'm	1	22 Q: How many cases have you done for
	(24) asking.		221 Gerry Mitchell?
	126) A: All right.	1	24) A. TINC OF SIX:
		1	29 O: Do you have any other cases for
		Page 140	Page
	 p) Q: I'm not quarreling with you, 		p Mr. Hilton at this time?
	z) A: Okay.		R A: NO.
	(i) Q: These cases represent the active		g Q: Do you have any other cases for
	H cases you had in your office when you were		19 Mr. Thomas at this time?
	is asked to prepare the list; is that it?		丙 A: No.
	is A: Well, they're still alive.	1	[6] Q: Do you have any requests
	m They're not active and ongoing right now.		m outstanding to obtain for you additional
	10 You know how things come and go. But those	1	as information or material for your review in
	of are still unsettled cases, if you will.		my this case, Doctor?
	•• Q: How did you go about preparing		A: Like for other medical records
1	in the list?		(1) or something?
5	(2) A: I went from file to file and	i i i	12 Q: Yes, just to get more
1	aj wrote down the names.	1	as information.
1	14] Q: When you use the term "anoxia,"	1	A: No. I thought I had a pretty
1	is what does it mean to you?		is good set of medical records.
ŗ	A: Total lack of oxygen.	1	a Q: Do you have any other opinions
ŧ	17 Q: To what? To where?	1	in regarding the proximate cause of Cody
t	(a) A: Well, in other words, zero.		 Miller's neurological deficit other than
I	n Hypoxia is less than normal. Anoxia is		
	without oxygen, zero.	1	19 you've already shared with me, Doctor? A: No.
	Q: And hypoxia is what?		
	A: Low oxygen. Hypo-oxia, less	1	21 Q: Have I asked you all that - I
		1	ze won't even continue that question.
12	a than normal oxygen.	1	
	 24) than normal oxygen. 24) Q: And what is hypoxemia to you? 	1	 A: That's a trick question. Q: No, I am not going to do that.

Foster Court Reporting Service, Inc.

Min-U-Scripts

(38) Page 139 - Page 142

			Page 145
	Page 143	[1] I have read the foregoing	raye 145
in take a copy of that with mustard and		no nevig notanimaxa ym to ighaenad (t)	
[2] relish, and I'm finished.		[3] April 5, 2001, and 3 is true, correct, and	
[3] THE WITNESS: Very good.		[4] complete, to the best of my knowledge, [5] tecollection, and ballet, except for the	
MR. WALSH: And I got you		(a) reconnections, a mountair, according to the (b) has of corrections, a any, attached on a.	
is out of here by 1:20.		(7) separate sheet herewith.	
[6] THE WITNESS: Excellent.		[8]	
(Witness excused.)		19 (10)	
(Whereupon the examination		11 Date ROBERT R. CLANCY, M.D.	
(a) adjourned at 1:20 p.m.)		117]	
10		112	
י. זיג		[14] Swom to and subscribed [15] before me this day	
• 2)		(15) of ,2001.	
139		[sŋ	
14]		(http://www.co.uk/a	
143 55}		(19) Notary Public [29]	
5B)		[51] Tear	
נען ואנ		124	
14		128) 129	
		124) [23]	
19) 		1	
20) 			
21]			
22)			
23)			
24)			
25]			
	Page 144		
1) COMMONWEALTH OF PENNSYLVANIA :	-		
COUNTY OF PHILADELPHIA : \$5.			
in)			
(3) I, Susan Marie Migatz, s			
(4) Notary Public in and for the Commonweath			
(5) of Pennsylvania, do hereby certify that the			
(6) whereas was by me that duly swom to			
(7) lestily the indh, the whole thirth, and			
(8) nothing but the truth; that the foregoing			
[9] stamination was taken at the time and place			
0) stated herein; and that the said			
1 examination was recorded stanographically			
2) by me and then reduced to typewriting under			
 my direction and constitutely a love record 			
4) of the testimony given by sold wrown.			
S) Efurther certify that i em noi a			
of relative, employee of afformay of any of			
7) the parties, or a relative or employee of			
0) either counsel, and that I am in no way of interaction directly as induced in the thick			
9) interested directly os indirectly in this 9) action.			
1) In witness whereof, there			
2) herelinio sel my hand and affiked my saal of			
 affice the second day of second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s			
Susan Marie Migatz			
Registered Professional Reports:			