1	IN THE COURT OF COMMON PLEAS
2	SUMMIT COUNTY, OHIO
З	
4	Mackenzie Lynn Tarle, a :
5	Minor by and through her : next friend and natural :
6	mother, Michele Tarle, : et al., :
7	: Plaintiffs, :
8	: vs. : Case No. : CV 2001 05 2137
9	Akron General Medical : Center, et al., :
10	Defendants.
11	
12	
13	DEPOSITION OF MARK H. LUQUETTE, M.D.
14	Second and a sec
15	Thursday, November 14, 2002 3:15 o'clock p.m.
16	3242 West Henderson Road Columbus, Ohio
17	
18	
19	SUSAN M. OLSON
20	PROFESSIONAL REPORTER
21	
22	ANDERSON REPORTING SERVICES, INC. 3242 West Henderson Road
23	Columbus, Ohio 43220 (614) 326-0177
24	FAX (614) 326-0214

1	APPEARANCES:
2	DANIEL M. FINELLI, Attorney at Law Finelli & Margolis, P.L.L.
3	730 Leader Building 526 Superior Avenue
4	Cleveland, Ohio 44114-1902
5	On behalf of the Plaintiffs.
6	JEFFREY E. SCHOBERT, Attorney at Law Post Office Box 5521
7	3737 Embassy Parkway Akron, Ohio 44334
8	On behalf of Defendants Edward
9	Ferris, M.D., and Summit Obstetrical and Gynecological
10	Associates, Inc.
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	

1	THURSDAY AFTERNOON SESSION November 14, 2002
2	3:15 o'clock p.m.
3	
4	STIPULATIONS
5	
6	It is stipulated by and between counsel for
7	the respective parties herein that this deposition of
8	MARK H. LUQUETTE, M.D., a Witness herein, called by
9	the Defendant under the statute, may be taken at this
10	time and reduced to writing in stenotypy by the
11	Notary, whose notes may thereafter be transcribed out
12	of the presence of the witness; that proof of the
13	official character and qualifications of the Notary
14	is waived.
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	

1	PROCEEDINGS
2	
3	MARK H. LUQUETTE, M.D.,
4	being by me first duly sworn, as hereinafter
5	certified, deposes and says as follows:
6	EXAMINATION
7	BY MR. SCHOBERT:
8	Q. Doctor, please state your full name.
9	A. Mark Luquette, L-U-Q-U-E-T-T-E.
10	Q. All right. And, Doctor, your current
11	business address?
12	A. Is 700 Children's Drive.
13	Q. Now, that's Columbus, Ohio?
14	A. Columbus, Ohio. Yes. 43205.
15	Q. Who do you work with or for at this
16	point?
17	A. I'm an employee of Pediatric Pathology
18	Associates of Columbus, P-Path for short. It's a
19	wholly-owned subsidiary of the hospital.
20	Q. All right. How many To the best of
21	your knowledge, how many members are there in the
22	Pediatric Pathology Associates?
23	A. There are nine pathologists. But I think
24	some of the other doctoral staff are also part of

I don't know the exact number of 1 the corporation. 2 people. When did you join that group? 3 Q. 4 Α. First joined the group in 1993. 5 Q. Okay. Obviously, you must have made some б change or -- because I'm sitting here looking at a 7 report that's got Magee Womens Hospital on top. 8 Α. Correct. I worked for Children's 9 Hospital for eight years. 10 Q. All right. And then I took a job at Magee Womens 11 Α. 12 Hospital in Pittsburgh, Pennsylvania, to go back to 13 my wife's home town. And about eight or nine months 14 of being there, I resigned over failure of the university to honor recruitment commitments and took 15 16 a job back here at Children's Hospital with the same 17 group that I was working with when I left. 18 Tell me a little bit about that. While Q. 19 you were there, who were you employed by in 20 Pittsburgh? 21 Α. I got two paychecks when I was in 22 Pittsburgh. One of which came from the University of Pittsburgh Medical Center, and the other which 23 came from the University Physicians Practice Group. 24

1	So I had The politics of it are that I had both
2	university privileges as in University of
3	Pittsburgh, like the undergraduate university, and
4	also had the University of Pittsburgh Medical Center
5	privileges.
6	Q. Okay.
7	A. And I got paychecks from each of those
8	people.
9	Q. Okay. What was your job duties for the
10	eight months you were in Pittsburgh?
11	A. Well, I was in Pittsburgh for 11 months.
12	Q. Oh, 11 months. Okay. For the 11
13	months
14	A. I turned in the resignation at eight
15	months. When I was in Pittsburgh, my job title was
16	director of developmental and perinatal pathology.
17	Q. Okay. And your current title, as we sit
18	here today, is there a specific
19	A. My current title is job description
20	title is staff pathologist. And my administrative
21	title is director of perinatal pathology and
22	informatics.
23	Q. And informatics?
24	A. $I-N-F-O-R-M-A-T-I-C-S$.

1	Q. Okay. Let's Did you bring with you
2	today a copy of your CV?
3	A. No.
4	Q. All right. You will
5	MR. FINELLI: I'll get you one.
6	BY MR. SCHOBERT:
7	Q. Give me just, then, a brief background
8	where did you do your undergrad. and medical school?
9	A. Well, my undergraduate degree was a BS
10	in biology done at the University of New Orleans.
11	Q. And when did you complete that?
12	A. 1980.
13	Q. All right. And then?
14	A. Then I went to medical school at the
15	Louisiana State University Medical Center in
16	Louisiana.
17	Q. Okay. And when did you complete your
18	medical school?
19	A. 1985.
20	Q. All right.
21	A. And I did two years of medical school,
22	one year what they call a year of fellowship, and
23	then another two years of medical school. I
24	participated in a program which allowed the medical

1 students to take a year out of medical school to do 2 a pathology-like internship to see if they like the field of pathology, which actually counted as a year 3 of residency credit. 4 Okay. Where did you do that at? 5 Ο. 6 Α. I did that at the University of Alabama 7 in Birmingham. 8 Q. All right. Then what after you completed medical school? 9 10 Α. Then I went and did a residency in 11 pathology -- well, anatomic pathology, at the 12 University of Washington. Well, no, that's 13 backwards. Washington University Medical Center in 14 St. Louis at Barnes Hospital. 15 Q. And how many years? Was that a 16 three-year program? 17 That was a four-year program. Α. 18 Q. But you got one year of credit, so you 19 did it in three or --20 Α. I chose not to take advantage of that and did the full four years. 21 22 Q. All right. So then you would have 23 completed that about 1989? 24 Α. That's correct.

1 Q. All right. Then what happened? 2 Α. From 1989 to 1993, I did a two-year 3 fellowship in pediatric pathology at the Children's Hospital of Pittsburgh. 4 5 Q. All right. And you said '89 to '93? 6 Α. I'm sorry. '89 to '91. 7 Q. All right. Okay. So then you completed 8 your two-year fellowship. And then what? 9 Α. Then I took a faculty appointment at UTMB 10 Galveston. 11 Q. Okay. 12 Α. Which stands for the University of Texas 13 Medical Branch in Galveston. 14 And what did you do there? Q. 15 Α. I was a staff pathologist and also with an emphasis on perinatal pathology. 16 17 Ο. Okay. And you did that from, what, '91 18 to '93? 19 Α. '91 to '93. 20 Q. Okay. So that brings us up to current. That's correct. 21 Α. All right. Board certified? 22 Q. 23 Α. Board certified in anatomic pathology and 24 pediatric pathology.

1 Q. When did you receive your certifications? 2 Α. If my memory serves me correct, anatomic would have been 1990 and pediatric path. in 1993. 3 4 Q. Describe for me, I quess, your clinical 5 practice currently. I mean, what are -- not clinical, your -- well, describe for me what you are 6 7 professionally doing right now in terms of practice. I spend approximately three quarters of Α. 8 my time doing clinically-related work and about a 9 10 quarter of my time doing research. 11 Q. All right. Let's talk about what you do during that -- for your clinically-related work. 12 13 Just give me some idea of how you break your time 14 down. 15 Α. It's a mixture of autopsy and surgical 16 pathology. 17 Q. Okay. 18 Α. And included within the surgical 19 pathology is consulting for developmental pathology 20 at the university, well, Ohio State University. 21 Well, is all of your work, whether it be Q. 22 autopsy or surgical pathology in the field of 23 pediatrics alone, or do you do more than that? It's all in the field of pediatric 24 Α.

1 pathology, which encompasses reproductive biology. 2 So I work with specimens all the way from shortly 3 after conception to teenagers and adults. 4 Q. When you try to break it down between obligations for autopsy versus surgical pathology, 5 is there any way to break that down percentagewise? 6 7 Α. It changes every year when they make the 8 schedule based on how many people are in the 9 practice. It tends to be half and half. 10 Q. All right. When you do the autopsy 11 portion of it, are you at times, therefore, doing 12 autopsies, say, on stillbirth fetuses that die in 13 utero or children that die shortly after delivery? 14 Α. Well, yes. The politics are a little 15 more complicated. If it's a near term baby or 16 neonat., those tend to go into general autopsy 17 service. If it's a first or second trimester loss, 18 they generally give those to me outside of the autopsy service. 19 20 Q. All right. 21 Α. Because I do the developmental and the 22 perinatal work there, I pick up those specimens 23 outside of my usual service rotations. I pick them up all the time, whenever they come in. 24

1 Q. So in terms of the population that you perform autopsies on, then, just so I'm clear on 2 3 that, how would you describe that, the make-up of that population that comes to you that doesn't go to 4 5 the general autopsy service? Α. б You mean within the Children's Hospital? 7 Q. Yes. 8 Α. Well, if it's a first or second trimester fetus, most of those are going to come to me. 9 10 Q. Okay. Is there anybody else in the 11 children's group or in your group at Children's 12 Hospital in Columbus who does that work other than 13 you? 14 If it's considered a perinatal case, it's Α. 15 mine. 16 Okay. All right. What else makes up Q. 17 that population of autopsies? 18 Α. Well, there are trimester stillbirths, 19 neonatal deaths, infant and child deaths, and adults 20 that die from childhood diseases, which are a very 21 small part of it. In the population of third trimester 22 Q. 23 stillbirths or neonatal deaths, could you list for 24 me the most common reasons or causes of death that

1 you ultimately determine? If it's an intrauterine demise in the 2 Α. third trimester? 3 Yeah, let's start with that. 4 Q. 5 Α. Well, it's -- you know, a heterogenous 6 population of causes. Placental problems, umbilical 7 cord problems make up a large part of it. Some of 8 it is intrauterine infections. Congenital defects. 9 Ο. All right. Within the population of 10 intrauterine infections, when you have that as a 11 diagnosis, do you have the opportunity to try to make determinations as to what the bacteria or the 12 13 cause of the infection is; the organism? 14 Α. Well, that's a part of doing the autopsy to try to figure out the cause of death, yes. 15 16 Q. What would be the common findings that 17 you might see that would lead you to a conclusion 18 that you have an intrauterine infection as the cause 19 of death in a third trimester stillbirth? 20 MR. FINELLI: Are we talking stillbirth 21 or antepartum? MR. SCHOBERT: I said stillbirth. 22 23 THE WITNESS: Well, you do a detailed exam which involves a number of studies. First of 24

1 all you do your external examination of the fetus. But then when you open the fetus, you would take 2 blood cultures. We might culture the lungs. If you 3 4 thought it was viral, you might culture the liver. 5 So you can culture various organs. You also take 6 samples of various organs and look at them under the 7 microscope to see if there are signs of infections. 8 Some types of infections produce specific findings, and others don't. 9

10 Ο. Okay. When you culture, you said from 11 the lungs, like sputum from the lungs or culture 12 blood might be some of the things you would culture? 13 Α. I can't culture sputum, because if the 14 fetus is stillborn, it can't cough it up. But we 15 sterilize the surface of the lung and then take a 16 scalpel and try to sterilely remove the piece of a 17 lung and put it in a sterile bottle and send it to the lab for culture. 18

19 Q. In those cases of third trimester 20 stillbirths that you have performed autopsies, has 21 GBS ever been the organism that is cultured out from 22 the blood or from the lung?

23 A. Yes.

24 Q. All right. How frequent does that occur?

1 Α. The question is too general for me to 2 answer. 3 All right. Is Group A strep, is that an Q. organism that -- within the realm of --4 It's a recognized cause of neonatal 5 Α. 6 sepsis, yes. 7 Now, is there any way to distinguish Q. 8 within, you know, the fetus injury that may be caused by one type of organism, such as Group A 9 10 strep, versus other bacterial organisms? I mean, is 11 there any way to distinguish other than the 12 culturing specific to that organism? 13 MR. FINELLI: You're still talking 14 stillborn? 15 MR. SCHOBERT: Yes. 16 THE WITNESS: Culture is the definitive 17 test. Although now in contemporary times, there are 18 genetic mechanisms. You know, ways to study DNA 19 that could be used. But in common practice, culture 20 is the way that you do it. 21 BY MR. SCHOBERT: 22 All right. In the realm then of neonatal Ο. 23 deaths, is GBS also recognized as one of the 24 organisms that can cause infection and result in

1	death?
2	A. Yes.
3	Q. The What other Assuming you had a
4	case, such as that, a neonatal death, and you
5	cultured out GBS. What other findings might you see
6	that would be consistent with infection as a cause
7	of death?
8	A. Beyond the culture?
9	Q. Beyond the culture. I mean, what other
10	findings might you see in performing the autopsy
11	that would be consistent with infection as the cause
12	of death?
13	A. One of the chief It's a series of
14	negatives, as well as positives.
15	Q. All right.
16	A. One of the chief problems in culturing
17	anything from an autopsy situation is contamination.
18	So the mere presence of a positive culture has to be
19	taken in a guarded fashion. Because of
20	possibilities of contaminants, you can't place
21	all culture can't be the only finding if you
22	necessarily want to prove that the infection was
23	what caused the death. You want to find other
24	things. It could be inflammation in the placenta.

1	It could be inflammatory cells in the lungs. Those
2	are examples of evidence that there's an infection.
3	Q. Okay.
4	A. If you find nothing in any of your
5	microscope slides and no other evidence for
6	infection, if the only evidence of infection you
7	have is a positive culture, then you're on shaky
8	ground.
9	Q. From your expertise, if you've made a
10	determination that infection has led to neonatal
11	demise, what is the mechanism that is generally
12	associated with acquiring an infection leading to
13	death?
14	A. In the neonatal period?
15	Q. Yes.
16	A. Well, the fetus either is infected in
17	utero or intrapartum or shortly after birth. And as
18	a result of that infection, gets septic and dies.
19	Q. And other than what we've already talked
20	about in terms of finding, you know, culturing
21	various parts of the organism to determine if you
22	have a bacterial infection, is there any other
23	pathological finding that would lead you to, you
24	know, be consistent with your diagnosis of

1 intrauterine infection? 2 Well, it depends on what the type of Α. intrauterine infection it is. 3 Let me ask it a different way. 4 Q. If vou 5 have an intrauterine infection, let's assume GBS as 6 the organism, and it's led to death in the neonatal 7 period, can it demonstrate itself as having an 8 effect on the brain? Can sepsis lead to, you know, 9 pathological findings in the brain? 10 Α. Through the mechanisms. 11 Q. Right. All right. 12 Α. Not directly. 13 Ο. I understand. All right. First the 14 mechanisms that will lead to injury to the brain. 15 Α. Well, if the individual is septic and 16 they go into cardiac arrest or cardiac failure, then 17 the blood stops circulating in the body, and then there's no blood to the brain and there can be 18 19 damage to the brain. 20 Q. And what kind of -- from a pathological 21 standpoint if you're looking at an autopsy, somebody 22 that has had this process occur, what types of 23 findings might you see in the brain? 24 In a dead individual? Α.

1

2 Α. If -- A septic individual may or may not have brain damage. And it may or may not be part of 3 what you find in a dead person; died of sepsis. 4 5 There are a lot of different ways that sepsis can kill someone. If a septic individual had brain 6 7 findings, they could either be findings of anoxia, you know, a lack of oxygen getting to the brain. 8 Alternatively, if the individual was septic, they 9 could develop what's called an intravascular 10 11 coagulopathy, which means they form blood clots 12 within their vessels and they could shower the brain 13 with small blood clots or just small blood clots in 14 their brain leading to hemorrhages in their brain. 15 There's a variety of different things that could 16 happen. 17 If anoxia occurs and there's a lack of Q. 18 02, how might that demonstrate itself hypothetically 19 at autopsy?

A. Well, typically if the individual has
been alive -- We're talking about an alive born
person that later dies?

23 Q. Yes.

A. They typically have what's called an

1 ischemia reperfusion injury. So they have a period 2 where their brain is starved for oxygen followed by 3 a period when oxygen is restored to their brain and 4 they develop death of a specific population of nerve 5 cells in their brain. 6 Q. Is that generally a global finding? 7 There can be some -- if it progresses Α. enough, they may get swelling in their brain. 8 That might be more global. But the ischemia reperfusion 9 10 injuries, specifically referred to as ponto 11 subicular necrosis -- that's P-O-N-T-O, subicular, 12 S-U-B-I-C-U-L-A-R -- ponto subicular necrosis is 13 necrosis or death of the neurons in the pons, which 14 is part of the brain. And the subiculum is another part of the brain. So death of those ponto 15 16 subicular cells is indicative an ischemia 17 reperfusion injury. 18 Q. Okay. How about to other organs in the 19 body? If sepsis is the mechanism of death, what 20 types of findings might we see to liver, kidney, 21 heart, lung? 22 Well, each case is different. If there Α. 23 was a profound episode of hypoxemia, which means not 24 enough oxygen in the blood, organs like the liver

1 and kidneys could get starved for oxygen and 2 essentially die. So the individual could go into 3 liver and kidney failure. So from a pathological standpoint, what 4 Ο. 5 would you anticipate seeing hypothetically if that occurred? 6 7 It would depend on the time interval Α. 8 between when the injury occurred and the time that 9 individual died. So you may see nothing, or you may 10 see changes in the microscope that shows the cells 11 are all dead. 12 Okay. Do you know why there was a Q. 13 determination made at some point to culture for a 14Group beta strep at generally 36 weeks in the 15 preqnant female? 16 Which pregnant female? Α. 17 Q. Any pregnant female. 18 I'm not familiar with the office Α. 19 practices of an OB-GYN. 20 Q. Okay. That's fine. All right. Looking 21 at your report, I have a report dated January 16th 22 of 2002. Correct? 23 Α. That's correct. 24 Have you produced any other notations, Q.

writings, reports, or anything else related to this 1 2 particular case based on review of any materials? 3 Α. I just have the notes that I initially 4 took to generate the report, which consists of a 5 large Post-it note. 6 Q. Okay. Could I see that for just a 7 moment? All right. And just if you could explain for me 98-261 refers to what? 8 9 Α. That refers to the case number that was 10 on the slides that I reviewed. 11 Okay. And then your note itself has Q. 12 numbers 1, 2, and 3. What does that refer to? 13 Α. Those would be the slides that I looked 14 at. 15 Q. All right. So to your knowledge, there 16 was three total slides that you had available to 17 review? 18 Α. That's correct. 19 Q. Okay. From your -- from everything 20 you've had the opportunity to review in this case, 21 was it your belief that those would be the only 22 slides available to review from the placental 23 pathology? Α. 24 I need to refer to the original pathology

report.

1

21

2 Ο. Whatever you need to refer to. Α. Okay. Unless I'm missing it, the 3 4 pathology report which identified those slides as belonging to this patient -- Oh, here it is. I'm 5 6 sorry. Right at the edge of the page. It just says -- it does say block three. And that means 7 8 that there should be three slides. I'm not necessarily questioning you 9 Q. 10 didn't. I just want to make sure that from your 11 understanding you had all the material. 12 Α. I have three slides to look at. The 13 report says that there were three sides. It's 14 possible that further examination of the specimen 15 and more blocks of slides were produced that aren't 16 reflected in this report that could have been 17 reflected in an addendum report that I was not privy 18 to. 19 All right. Then the additional notations Q. 20 that appear, say, next to No. 1, what type of referencing is that, or what does that all refer to?

22 Well, those are abbreviations that I use. Α. 23 UC stands for umbilical. And times two, meaning 24 that there were two pieces to look at. AF is acute

1 funisitis. And UV means umbilical vein. 2 Q. All right. So acute funisitis is one of 3 the findings made from slide No. 1 from the 4 specimens of the umbilical cord? 5 Α. That's correct. Yeah, the specimen --6 Yes. 7 Okay. What is acute funisitis? Q. 8 Α. Acute funisitis means that white blood cells from the fetus have gone through an umbilical 9 10 vessel into the issue that's immediately around the umbilical vessel. 11 12 Q. I'm sorry. Could you say it one more 13 time? 14 Α. Okay. The umbilical cord contains three blood vessels. And those three blood vessels are 15 16 not touching each other. They're separated in space 17 by a gelatinous material call Wharton's jelly. And 18 then there's like a skin, if you will, around the 19 outside of the umbilical cord. And probably less 20 than a quarter of the surface area, if you were to 21 make a cut across the umbilical cord, probably less 22 than a quarter of the surface area would be actually 23 filled with blood vessels. The rest of it is 24 gelatinous material called Wharton's jelly. So

Anderson Reporting Services, Inc. (614) 326-0177

24

1 if -- you know, circulating through those umbilical 2 blood vessels is fetal blood. And in that fetal 3 blood can be white blood cells that belong to the fetus. If they're responding to an inflammatory 4 5 signal, they can go through the blood vessel wall 6 into the Wharton's jelly that surrounds them. 7 Q. Okay. And how is it that something gets 8 into the Wharton's jelly? I mean, what is it that's 9 in the Wharton's jelly creating this response of 10 these white blood cells? 11 Α. Well, the umbilical cord is in the 12 amniotic cavity. So if there are bacteria in the 13 amniotic cavity, fragments of the bacteria that 14 trigger inflammatory responses are sensed by the fetal white cells, and the fetal white cells go 15 16 after those signals, so they move out of the blood 17 vessel through the Wharton's jelly in an attempt to 18 get out of the cord into the amniotic cavity. 19 Q. You say these white blood cells in this 20 case would be produced within the fetus? 21 Α. That's correct. 22 Q. Okay. So getting back then, and I 23 appreciate your patience, to the acute funisitis, it 24 describes the process of what? The production of

the white blood cells or finding of white blood 1 2 cells? It essentially is the fetus's response to 3 Α. the infection. 4 Is there a period of time that must occur 5 Ο. in terms of the infection being present or at 6 7 least -- you know, in contact with the cord before the fetus will produce white blood cells in response 8 to that? 9 10 Α. In humans I don't know that that's known 11 with certainty. What we know about the human acute 12 inflammatory response is that the first white cells 13 in general will show up at the site of infection at 14 about 12 hours. Precisely how long a fetal 15 umbilical cord has to be in contact with a bacterial 16 substance or whatever for the fetus to respond is 17 not really known. So there is no parameters you could put 18 Q. 19 on it, no less than or no greater than, based on 20 your knowledge and experience? 21 Α. In round figures, I would say that the 22 contamination would have to be there for at least 12 23 But does that mean it couldn't be 11? hours. I understand. 24 Q.

A. You can't say, because this is a biologic
 response.

Q. Right. Now, in terms of when you looked at that slide, was there a certain amount of white blood cells that you have to see in order for you to determine if that process is going on, or is it just simply a matter of if you see just any amount it's acute funisitis?

9 Α. Well, there are three blood vessels in 10 there. And if the white cells are inside the blood 11 vessel, they would be circulating. If they start to 12 go through the blood vessel wall, you just call it a 13 vasculitis or inflammation of the vessel. If they 14 get through the vessel wall and into the Wharton's 15 jelly, then it's funisitis. But without any further 16 qualifications saying funisitis doesn't tell you if 17 you're seeing one, two, or three blood vessels 18 involved or, for that matter, if there's a couple 19 dozen white cells going through the vessel at one 20 point or thousands of white cells going through the blood vessel walls. 21

Q. So the number of white cells you see
doesn't give any -- have any significance?
A. In terms of using the term funisitis, if

Anderson Reporting Services, Inc. (614) 326-0177

27

1	you're very liberal with it, you could say if you
2	saw two or three or four white cells in the
3	Wharton's jelly.
4	Q. Okay. How do you use the term then when
5	you How do you define what is enough to be called
6	acute funisitis?
7	A. If I see just a few white cells,
8	convincing white cells in the Wharton's jelly, I
9	will call it funisitis.
10	Q. From your review of these slides, do you
11	recall whether you can quantify how many white cells
12	you were seeing within the Wharton's jelly?
13	A. Well, since there's no significance to
14	quantifying it, I don't take note of that.
15	Q. All right. Fair enough. What is the
16	significance, then, to you of a finding of acute
17	funisitis in this particular case?
18	A. Well, in any case it means that the fetus
19	is responding to an infection.
20	Q. Okay. What was the second thing you read
21	here? Umbilical vein?
22	A. All right. That was the blood vessel.
23	There are two arteries in one vein in the umbilical
24	cord. The only place I saw the inflammation was in

1	the umbilical vein.
2	Q. Okay. What's your next one say there?
3	A. FM is fetal membrane.
4	Q. Okay.
5	A. And I have on the focal AI, which means
6	that I saw acute inflammation in the fetal
7	membranes, but that it was focal.
8	Q. All right. Explain that, if you would.
9	I mean
10	A. Well, the way the examination is done is
11	that the baby is in the amniotic sac. And imagine
12	it like a bag. And to examine it, you take a
13	scissors, and you cut down the bag and then you roll
14	the membranes. And essentially it comes out like a
15	jelly roll. And then after you put it in
16	formaldehyde overnight and it hardens up, you make a
17	slice of it. So when you look at it under the
18	microscope, it looks like a jelly roll. If you're
19	to find inflammation all throughout the membranes,
20	that would be diffuse. If you find it only in a few
21	spots, that's focal.
22	Q. All right.
23	A. In this case, the inflammation was focal.
24	Q. And what, if any, significance does that

mean in terms of looking at the overall process that 1 was going on for this fetus at the time of birth? 2 3 Α. Some people could interpret that that means that the infectious process is just in its 4 5 very starting point. But the truth is that the 6 amount of inflammation that you see really doesn't 7 tell you much about how long it's been there. 8 Ο. All right. Now, typically when you see 9 that finding of focal inflammation, are you -- can 10 you characterize what the cause of the inflammation 11 is? I mean, whether it's a bacterial or some other 12 source or cause for that inflammation? 13 Α. When you have acute inflammation in the 14 fetal membranes, the assumption is that it's a bacterial infection. 15 All right. What is typically then the 16 Q. 17 source of the bacterial infection? 18 Α. They're ascending vaginal infections. 19 Q. Can you tell, again, anything about the 20 length of time that there may have been this focal 21 inflammation caused by this -- or assuming -- the assumption being caused by some bacteria by the 22 23 findings that you saw, could you tell how long it 24 had been going on?

1 Α. With these findings, I would say that the -- it took at least 12 hours for the 2 3 neutrophiles to get there. How much time beyond that is -- it's not possible to say. 4 5 Is there no window that you can put on Ο. the outside? In other words, the best you can say 6 7 is it took at least 12 hours, but I can't tell you how long after that it may have been ongoing? 8 Α. That's correct. 9 Okay. What did you have down here next 10 Q. 11 right underneath there? 12 Α. Triangle is a delta, which is short for 13 change. And no MV, or maternal vascular change. 14 One of the good places to look at the mother's blood vessels is in the fetal membranes. And I made a 15 16 notation that I didn't see any abnormal maternal 17 vessels. 18 Okay. What else did you write then under Q. No. 2? 19 20 Α. AI, which is acute inflammation. And 21 then C, chorionic, PLT, plate, width, OC, line of the width, and FSVV is fetal stem vessel vasculitis. 22 23 Ο. All right. Explain that if you could. Well, the umbilical cord contains three 24 Α.

blood vessels. And then when it reaches the 1 2 placenta, it spreads those vessels out over the top 3 of the placenta where they branch into the part of the placenta that faces the fetus, which is referred 4 to as the chorionic plate. And so the -- we call 5 those stem vessels, because they're kind of like the б 7 early branches of the tree, if you will. And just like the process that we 8 9 explained in the umbilical, how the fetal blood 10 vessels responding to the infection come out of the 11 umbilical vessels, they also come out of the stem 12 vessels. The same mechanism. But these are just 13 branches of the umbilical vessels. 14 Q. Right. So what you're seeing is, again, 15 the reaction to the white blood cells coming out? 16 Don't let me say it. You tell me. What is it that 17 you're seeing, then, just so I'm clear? 18 Α. It's the exact same scenario. The white 19 cells coming out of the umbilical vessels and grow 20 branches of the umbilical vessels. It's the same 21 process. 22 All right. Again, my question is having Q. 23 seen that process in slide 2, apparently, right? --24 can you put any timing as to either the minimum

1 amount of time it takes for that to occur and/or a maximum amount that that process might be ongoing 2 3 from what you saw in the slide? You rarely ever see the fetal response 4 Α. 5 without seeing the chorioamnionitis. So when either 6 occurs simultaneously, we with the maternal 7 response, or there is some time interval between the 8 maternal and the fetal response, I'm not aware of 9 any literature that answers that question. 10 Q. Okay. All right. Your next line? 11 Α. That says term maturation. That means 12 that chorionic villi, which are the little fingers 13 that -- the fetal tissue that is surrounded by the 14 mother's blood that actually acts kind of like the lung for the baby exchanging the nutrients and gases 15 and -- those villi, they're either developed 16 17 appropriately, or they haven't. And so the term 18 maturation means that they're developed 19 appropriately for what you would expect for a baby 20 that's at the end of their gestation. A normal 21 gestation period, 38 to 42 weeks. I guess a simpler 22 way of putting it is that indicates that the 23 placenta is normally developed. 24 Okay. What did you write next? Q.

1	A. Large arrow up means marked. VCCV,
2	vascular congestion of the chorionic villi with
3	three foci suggestive of red infarcts, but not
4	basal.
5	Q. All right. Let's start with the first
6	term. Again, that it indicates?
7	A. Marked.
8	Q. Marked?
9	A. Uh-huh.
10	Q. All right. What's the significance of
11	that finding? Is that a finding you made, first of
12	all, that there was vascular congestion, you said,
13	of the chorionic villi?
14	A. Uh-huh.
15	Q. All right. What's The chorionic villi
16	exists where? Are they on the chorionic plate that
17	you were talking about?
18	A. Let me think about it. Without giving an
19	entire anatomy lesson on the placenta, you start out
20	at the umbilical cord, and then they talk about how
21	the vessels spread out over the top of the placenta.
22	Imagine the placenta as a disc. And those blood
23	vessels keep branching and become progressively
24	smaller. And as they're branching, think of it like

Imagine the trunk of the tree being the 1 a tree. umbilical cord. And as you get out to the smaller 2 3 branches, imagine the bark being the outside and the -- then there's whatever you call the wood pulp 4 5 on the inside of each branch. And the blood vessels would be traveling up the trunk and down through all 6 7 this wood pulp. When you get to the very finest 8 twigs out in the end of the tree, those would be the 9 chorionic villi. And those are surrounded by 10 mother's blood so that the baby's blood that's 11 circulating through those villi can come as close 12 as it can get to mother's blood to exchange 13 nutrients and waste products. 14 Q. All right. So what's the significance 15 then of the finding that there's -- what did you 16 call it again? 17 Α. Well --18 Vascular congestion? Q. 19 Α. It means that if I look at the diameter 20 of the blood vessels in these villi, the diameter is So they are congested with blood. 21 wide. 22 All right. Is that the way they normally Q. 23 should be, or is that an abnormal finding at that 24 term maturation?

It's often an incidental finding. 1 Α. By itself it's often an incidental finding. 2 3 Q. All right. In the context of this particular case and your other findings, is there 4 5 significance to that finding? 6 Α. Well, vascular congestion can be an 7 incidental finding. But it is also part of one of 8 the earliest changes that occurs when the placenta is starved for oxygen. 9 10 Q. Okay. 11 Α. And when you -- You're probably familiar with the term like a myocardial infarct, where the 12 13 heart gets an infarct and a piece of the heart muscle dies. Well, you can have infarcts in the 14 15 placental, as well; where if a piece of the placenta is starved for oxygen, that part of the placenta 16 17 dies. 18 And there are a variety of changes that 19 you can see under the microscope. Progression of 20 changes that occur in that process of the placental 21 tissue being starved for oxygen and subsequently dying. The very first finding that you can get is 22 23 called a red infarct. 24 Q. All right.
1 Α. And the red infarct is -- looks something 2 like vascular congestion, except it's exaggerated to the point where it's difficult to see the villi 3 individually. If normally you were looking at 4 5 villi, like a bunch of checkers in a grid, and if б you pushed all the checkers together to the point 7 where you couldn't tell one checker from the next, 8 that would be extreme vascular congestion of the 9 villi that's giving you a microscopic appearance of a red infarct. 10

11 In this case, it was hard to know if it 12 was a red infarct or not, because these lesions 13 weren't found at the base of the placenta near the 14 mother's side of the placenta, but they were found 15 in the middle of the placenta. If they're found at 16 the base and they're wedge shaped, you can be sure 17 they're an infarct. If they're found in the middle, 18 they may be an infarct; they may not.

19Q.All right. Did you come to a conclusion20in this case whether they were an infarct or not?21A.My conclusion was that I couldn't tell if22they were an infarct or not.

Q. If it's an infarct, assuming that to be
true, is there anything that -- in terms of the

1 process, the time that it takes for this process to 2 occur, can you make any conclusions about timing of 3 how long it takes to get to that point? 4 Α. I don't know if anybody knows how long it 5 takes to involve the changes of a red infarct. It's 6 generally accepted that it's a recent event. 7 All right. And recent being defined as? Q. 8 Α. Since vessels can expand very rapidly, 9 the change -- I'm speculating based on what I know 10 about --11 MR. FINELLI: Don't speculate. 12 BY MR. SCHOBERT: 13 I don't want you to speculate. All I Ο. 14 want you to tell me what you know to be something 15 you can say to a reasonable degree of medical 16 probability. 17 Α. I'm not sure that anybody can -- it's even in the book anyway. 18 19 MR. FINELLI: If you don't know, don't 20 speculate. 21 BY MR. SCHOBERT: All right. So there was a possible red 22 Q. 23 infarct. And then what was this over here? Ι'm 24 sorry. Three --

A. Foci.
Q. Okay. So there were three possible foci
of red infarcts? Is that what you're saying?
A. Uh-huh.
Q. If, in fact, it's a red infarct, is there
any way to determine the cause of the oxygen As I
understand you said it's oxygen depravation that can
lead to this kind of a finding. Is that what you
told me?
A. Right. I mean, just looking at the
slide, you can't tell how it happened.
Q. All right.
A. But there could be associated findings
that would explain it.
Q. Were there associated findings in what
you saw that would tend to lend an explanation as to
if that is a red infarct?
A. Not in what I had to examine, no.
Q. What was your third one, then?
A. It says little or no acute inflammation
in chorionic plate. And then it says: Fetal stem
vessel vasculitis. And that's congestion of
chorionic villi. So in the first slide it was
umbilical cord and fetal membranes. And in these

1 two slides, two and three, it was placenta. So both of them have vascular congestion. Both of them had 2 inflammation of the fetal stem vessels. And in 3 slide three, there was very little inflammation of 4 5 the chorionic plate itself. 6 Q. Okay. And what significance, if any, do 7 you draw from those findings? 8 Α. I already can tell from this section here 9 that there's inflammation in the chorionic plate. 10 This is just merely a matter of recording what I'm 11 seeing. And it's consistent with what I've seen in the other two slides. It doesn't add or detract 12 13 from what I already know by looking at slides one 14 and two. 15 Ο. All right. Now, going back to your 16 report, then, when you use the term then chorionic 17 villi under diagnosis, explain that diagnosis just 18 so I'm clear. MR. FINELLI: The term chorionic villi? 19 20 BY MR. SCHOBERT: 21 Q. It says, No. 2, chorionic villi. And you're finding, just so I'm clear, how you use that 22 23 term or why you made that finding. 24 Well, I don't see a No. 2. Α.

1	Q. No. I'm sorry. I'm just looking right
2	there.
3	MR. FINELLI: You want to know what
4	chorionic villi means?
5	MR. SCHOBERT: Well, I just want to
6	know He says my diagnosis is. And then it says
7	chorionic villi as one of the things listed.
8	THE WITNESS: I can answer the question.
9	BY MR. SCHOBERT:
10	Q. All right.
11	A. There is a standard what we call
12	pathology/morphology way of making a diagnosis. So
13	I say arm, left, upper, excision, nevus, like a
14	you know, mole. Okay? So in the placenta, the
15	anatomic structures that I use to describe a
16	placenta is I separate into three compartments. I
17	say something about the chorionic villi, I say
18	something about the fetal membranes, and I say
19	something about the umbilical cord. So starting the
20	sentence with the words chorionic villi is just
21	telling me that this is the anatomic location of
22	tissue that I'm going to tell you about.
23	Q. All right. Fair enough. Now, under
24	fetal membranes, then, your diagnosis is acute

chorioamnionitis. I'm sure we must have discussed 1 2 it as we went through that, but is that then the 3 process we were talking about under what slide number? 4 5 Α. In slide No. 1, where is says focal acute inflammation, that's what you see in a slide. 6 And 7 when you see acute inflammation in the fetal membrane slide, the diagnosis is acute 8 chorioamnionitis. 9 All right. And define chorioamnionitis 10 Q. 11 so that I know exactly how you define it. 12 Α. Chorioamnionitis is the presence of acute 13 inflammatory cells in the subamnionic connective 14 tissue. 15 All right. So going down to your Ο. 16 conclusion, then. These findings, in my opinion, 17 cannot be viewed as etiologic for cerebral damage 18 with any degree of certainty. 19 Explain that for me, if you would. 20 Α. What I mean by that statement is that 21 taken as an isolated finding, that is there's an 22 individual with acute chorioamnionitis, you cannot 23 conclude with any certainty that there's going to be 24 brain damage just because there's chorioamnionitis.

1 Q. Am I correct in understanding that the --2 Strike that. Let me ask it this way. From your 3 review of this pathology, do you believe that there was an infectious process going on in the placenta? 4 5 Α. In a way the question doesn't make sense, because the infection is not really in the placenta. б 7 All right. The infectious process Q. affecting the placenta? 8 9 MR. FINELLI: At what point in time? 10 BY MR. SCHOBERT: 11 Q. Well, at the time that these slides are 12 produced. I mean, do these slide evidence, in your 13 opinion -- Can you tell from these slides whether there was infection within --14 15 MR. FINELLI: At the etiology? 16 BY MR. SCHOBERT: 17 Q. At the etiology of the chorioamnionitis. 18 Α. Well, pretty much by definition, acute 19 chorioamnionitis means that there's a bacterial infection. 20 21 Q. Right. But -- So you are -- your 22 pathology -- The review of these slides indicates 23 that there was an infection that could be -- you 24 could determine there was infection going on from

what these slides tell you?

1

2 Α. Right. But you have to be careful to qualify that. Okay? There's subclinical infection, 3 4 and there's, I guess you'd say clinical infection. 5 In other words, you can have bacterial exposure and inflammation of the placenta with absolutely no 6 problems to the fetus. And, in fact -- I can't give 7 8 you a percentage, but I'd say most of the times I got a placenta that's got a lot of chorioamnionitis 9 10 in it, the fetus is just fine. In a term fetus. 11 Q. Do you have, on those cases, the 12 opportunity to get clinical information about the status of the fetus and whether or not the fetus has 13 14 had blood cultures or sputum cultures, and whether 15 or not those cultures are positive? Most of that, from my personal 16 Α. 17 experience, comes from practicing in places where 18 with the pathology report, I usually have a copy of 19 the delivery records that has the patient's APGAR 20 scores. So when the baby is at term, between 38 to 21 42 weeks gestation, more likely than not when I see chorioamnionitis, the APGAR scores are usually 22 23 normal. Eights or nines. 24 Q. All right. But have you ever seen

1 situations where you think chorioamnionitis and you 2 have seen low APGAR scores? 3 Α. That does happen, yes. 4 Q. Have you had the opportunity in those 5 cases to go and do further clinical investigation or review the clinical records of the fetus or the 6 neonat to determine if there's been blood cultures 7 done at or near the time of --8 I don't follow the cases like that, no. 9 Α. 10 Q. Assuming hypothetically there were 11 positive blood cultures taken within an hour -- the blood taken within an hour of delivery that had GBS 12 13 as the organism, and you had findings such as you've 14 described here --15 MR. FINELLI: I'm going to object to 16 this, because he's not talking about clinical 17 medicine. Basically his report states his findings 18 on review of the pathology slides. That's the 19 confines of his report. 20 BY MR. SCHOBERT: 21 Q. Can you rule out the findings from the 22 placenta as having -- being etiologic for cerebral 23 damage in this case? Can you say with any degree of 24 certainty? I guess, my question to you is: Can you

1	rule it out based on your findings from your review
2	of these slides, can you rule out the fact that
3	those findings are not the cause of cerebral damage
4	in this child?
5	A. I misplaced where you put the word fact
6	in there.
7	Q. Well, you used the term
8	A. I think to answer that I can reiterate
9	the question and answer, I think. But basically by
10	seeing the inflammation on these slides, can I be
11	sure that they weren't the cause?
12	Q. Yes.
13	A. No.
14	Q. What other materials do you have in that
15	folder in front of you today, Doctor?
16	A. I have a communication signed by Janice
17	M. Lage. A letter about this deposition and its
18	location. Cover letter that came with the slides.
19	Copy of my report. Copy of the pathology report
20	that accompanied the slides to identify them. Copy
21	of a communication to Mr. Schobert from Alias
22	Challen [phonetic]. That's what's in here. Oh,
23	wait. A report.
24	Q. Right. That's a transmittal letter.

1	A. That's the transmittal letter. Another
2	transmittal letter.
3	MR. FINELLI: You're going to the depo.
4	BY MR. SCHOBERT:
5	Q. All right, Doctor. Let's turn back
6	Well, first of all, is that all the materials you've
7	had an opportunity to see or review or outside of
8	the pathology itself?
9	A. The ones I know about. If I have
10	anything else, it's not been unpacked.
11	Q. Okay. Going back then to the report of
12	Dr. Lage, do you know Dr. Lage?
13	A. No.
14	Q. All right. You've had a chance, I assume
15	to review this report?
16	A. Yes.
17	Q. In order to try to cut this short, are
18	there findings that Dr. Lage has made, since it
19	appears she also reviewed three slides, and we'll
20	make the assumption she's reviewed the same slides
21	that you had, that you disagree with in terms of
22	what she has reported as findings or the conclusions
23	that she has drawn?
24	A. Yes.

1 All right. Why don't we take them in a Q. chronological fashion, if you want to point them out 2 3 to me. Okay. Well, first I would not assume 4 Α. 5 that I saw the same slides that she saw. 6 Q. Okay. 7 Α. And she concluded that the findings indicated an ascending amnionic fluid infection of 8 9 at least 72 hours duration. I don't know how she made that determination. I don't know what 10 11 literature supports that. 12 Q. All right. So it's your position that 13 from those three slides -- well, it's your 14 determination in general, nobody can make that 15 particular finding from looking at pathology slides? 16 Or is it more specific that these slides themselves 17 can't allow you to draw any conclusions? 18 Α. It's my understanding that the literature 19 doesn't support one's ability to precisely time an 20 infection like she has in this report. 21 Ο. All right. You use the word precisely 22 time. I mean, let me ask the question in a generic 23 Is there any -- do you have any knowledge, sense. 24 either from your own experience or your review of

1 the literature, where one can attempt to time to any 2 degree the length of time an infection has existed from review of the pathology, such as this? 3 In several attempts of reading the 4 Α. literature, I haven't been able to find that. 5 It's 6 very vague. People use words like recent, and they don't qualify them. 7 All right. So is it your belief that 8 Ο. 9 based on everything that you've had the opportunity 10 to review, you've never seen where anybody has 11 demonstrated or written about the ability to time to any degree the length of time an infection may have 12 13 been evident, based on review of pathology? 14 Some of that is direct, and some of Α. 15 it is inferential from related subjects on 16 chorioamnionitis. 17 Q. Okay. Well, let me ask the question in a different way, then. You do not have an opinion, 18 19 yourself, then, as to the length of time that an 20 infection may have been present? Beyond how long I know it takes the 21 Α. 22 inflammatory cells to get there, I don't think I 23 would say that it's my expert opinion that no one 24 can tell me if the inflammatory cells had been there

1	18 hours, 24 hours, 48 hours, or 72 hours. That
2	distinction cannot be made as far as I understand
3	the process and what's been written about it.
4	Q. All right. So what you told me earlier
5	is that you can generally stick by the rule that it
6	would take at least 12 hours, but you can't go and
7	time it past that point?
8	A. Well, right. I mean, this statement here
9	suggests that there's no way that this was 48 hours.
10	It had to be at least 72. Well, I think that's
11	patently incorrect.
12	Q. Okay. Any other basis for your opinion
13	that it's patently incorrect, other than what you've
14	had a chance to tell me?
15	A. No.
16	Q. What other statements do you take
17	exception to either in terms of findings or
18	conclusions in this report you've reviewed?
19	A. The second paragraph says the placenta
20	shows chronic villitis. I did not make that
21	observation.
22	Q. All right. How would you define the term
23	chronic villitis?
24	A. It's a term that's used loosely. And

it's very subjective. But to me it means that there 1 2 are chronic inflammatory cells in the chorionic villi. 3 And when you use the term chronic, is 4 Q. 5 there a definition you apply to the term chronic? Α. Chronic inflammatory cells refers 6 7 specifically to a type of white blood cell. Usually 8 including lymphocytes and macrophages. Lymphocytes 9 and monocytes. 10 Q. So you need to find each one of those in 11 order for it to be termed chronic --12 Α. Well, what they call mononuclear 13 inflammatory cells, which is generally lymphocytes 14 and monocytes or macrophages. One or both of those types of cells has to be present in the tissue for 15 16 you to consider it chronic villitis. 17 Ο. And in a generic sense, can those cells 18 be seen when they exist through what you do as a placental -- or as a pathologist looking at a 19 20 placenta? But the term chronic villitis 21 Α. Yes. 22 doesn't give you much information. It could be one villi with a few inflammatory cells in it, or it 23 could be half of the villi in the specimen. 24 It's an

1 unqualified observation. If it were present in half of the villi, I would assume that if she found a few 2 3 inflammatory cells in one villus, if I had seen 4 that, I probably would have disregarded it as a finding of no significance and would not have 5 6 applied the diagnosis of chronic villitis to it. 7 Ο. So is it your definition that you need to 8 see a certain quantity of those cell types, those 9 inflammatory cell types before you could term it chronic? 10 11 Α. What I mean is if I see even one 12 convincingly inflamed villus -- if I saw a villus 13 that had two or three lymphocytes there, I wouldn't 14 say anything about it. If I found a significantly inflamed villus like at low power I could see it 15 full lymphocytes, even one villus, I would call it 16 17 chronic villitis. But in my microscopic 18 description, it would state I only saw one villus 19 with chronic inflammatory cells in it, as opposed to 20 the diagnosis that might be like marked or diffuse 21 chronic villitis, which would further be described 22 as having numerous villi inflamed. 23 Q. All right. I understand. What is the time that's generally required for the production of 24

1 that cell type? 2 Α. We know even less about that than we know about chorioamnionitis. I mean, chronic 3 4 inflammatory responses, based on what we know, generally take on the order of two, three, four days 5 б or more to form. But the majority of times you make 7 the diagnosis of chronic villitis, it's an incidental finding of no significance. 8 9 Q. So, generally, it could take two, three, 10 four days for those types of inflammatory cells to 11 be produced? 12 Α. To arrive in the tissue. 13 To arrive in the tissue so that they Q. 14 would be there at the time that you're reviewing it 15 under a microscope? 16 Α. Right. 17 Q. And there's also, then, the determination 18 in your mind that there has to be -- depending on 19 the quantity of those you see, you might call one --20 definitive one the chronic, but then you would in 21 your microscopic define it as being a singular 22 finding, rather, unless you saw it more often that 23 you could call it a more generalized finding. Is 24 that --

1	A. That's correct.
2	Q. All right. And if I understand it, you
3	didn't see any of these inflammatory cells when you
4	reviewed the slides you had to review?
5	A. That's correct.
6	Q. All right. What else do you disagree
7	with?
8	A. Well, the statement is also made there is
9	meconium in the amnion and chorion from the
10	extraplacental membranes. I did not make that
11	observation.
12	Q. All right. Is there any If, in fact,
13	that does exist, have you seen that finding before
14	when you've looked at placentas?
15	A. I actually do research in this area. And
16	I can tell you that you can find a little bit of
17	meconium in most placentas if you look hard enough.
18	So the statement made in a vacuum is almost
19	meaningless. In the context of when meconium is
20	meaningful, it usually comes with an additional
21	qualifier, that you have a reactive amnion. The
22	amnion cell layer usually become reactive. The
23	presence of a little bit of meconium in absence of
24	reactive amnion is a null finding. Usually you

1 state if you see meconium in macrophages -- First of 2 all, it just says it's meconium here. When it's 3 significant, it's usually present within 4 inflammatory cells called macrophages. And to make 5 sense out of it, you really would have to say how 6 many of them there are. And, again, you can find 7 rare pigmented or meconium macrophages in lots of 8 placentas. But the ones that tend to be more 9 significant are the ones where you find numerous 10 pigment latent or meconium latent macrophages. 11 Those are also usually visibly green to the eye. 12 Ο. Why are those significant when you do 13 find them? 14 Α. Well, they indicate that the meconium was 15 there long enough for the cells to go over and 16 ingest it. 17 Q. Okay. Is there generally any, to your 18 knowledge, clinical significance attached to that 19 when it occurs? 20 Α. Well, that's a whole other lecture. But, 21 I mean, basically we can have a light staining of the fluid with meconium. We can have a heavy 22 23 staining of the fluid with meconium. Meconium can 24 be passed right immediately prior to the baby being

1 born and then nothing happens. Or the meconium can 2 be passed at an earlier point in time and be in 3 utero with the baby for a while. There's a lot of 4 variables. This individual may have seen some 5 meconium there. But if she looked at the same slides as I did, since it's a subjective evaluation, 6 7 I may have -- if there were meconium there, there 8 wasn't enough for me to think it was worth listing 9 as a finding. 10 So the difference between -- I mean, Q. 11 you're taking exception to her report could be 12 either one, you didn't see any at all, or what you 13 saw, you didn't, based on your knowledge and 14 experience, feel was significant enough to report? 15 Α. That's correct. 16 Am I saying that fair? Q. 17 Α. That's fair. 18 All right. Go on. What else? Q. 19 Α. That's also the finding of this pathology 20 report, that they did not see meconium. 21 The discussion about the baby's head 22 circumference as being 45th percentile while the 23 body weight is 80th percentile being diagnostic of 24 intrauterine growth asymmetry is factually

incorrect.

1

2	Q. All right. Why?
3	A. There are two types of growth
4	retardation. Symmetric and isometric. And in
5	symmetric growth retardation, the baby is
6	proportionally small, which means the head, arms,
7	legs, and organs are all small to the same degree.
8	Q. All right.
9	A. In asymmetric growth retardation, the
10	head is usually the normal size, and the body is
11	small. And the most common reason for that is a
12	placental problem. So this doesn't fit the
13	definition of asymmetric growth retardation, because
14	she's saying that the head is smaller and the body
15	is larger. And that's backwards. In asymmetric
16	growth retardation, the head is normal, and the body
17	is small.
18	Q. Okay.
19	A. So it's wrong.
20	Q. All right. What else?
21	A. So the term so the statement this is
22	diagnostic of intrauterine growth asymmetry between
23	the baby's head and his body length, I disagree
24	with.
1	

1 Ο. Well, let me ask you this. Is it typical 2 to have a head circumference measured at the 45th 3 percentile with length and weight measured at 80th percentile in a baby at this maturation? 4 5 MR. FINELLI: Objection. I mean, he's a pathologist. He's not a neonatal --6 7 I know. But he just took MR. SCHOBERT: 8 exception to the rule, so I'm just asking. 9 THE WITNESS: No. I make that 10 assertation at the autopsy table all the time. If I 11 did an autopsy on somebody who had a 45th percentile 12 head and an 80th percentile body, I would consider 13 that normal. 14BY MR. SCHOBERT: 15 What else? Q. Okay. 16 Again, the statement about 72 hours is Α. 17 made at the bottom. 18 Q. Okay. 19 Α. And then the statement that the chronic 20 villitis has been present for days -- associating 21 the baby's small head size to villitis that I didn't see, again, I take issue with that. 22 23 Q. All right. Did your findings include a 24 finding of vasculitis of the placenta surface

1 vessels? The term I used for that is fetal stem 2 Α. vessel vasculitis. 3 Okay. Outside of then the opinions we've 4 Ο. 5 explored in your report or your opinions as it pertains to Dr. Lage's report, are there any other 6 7 opinions you're aware of that you intend to be 8 expressing at the trial in this case? 9 Α. No. 10 Let me ask you just some generic Q. 11 questions, then, Doctor. How often have you been 12 asked to get involved in review of medical/legal matters? 13 14 Α. I'd say on the average two to four times 15 a year. 16 All right. And for how many years? Q. 17 Α. Ten years. 18 Ο. All right. How often have you been asked 19 to do what we're doing here today, to give a 20 deposition? 21 Α. Fewer than a half a dozen times. 22 Q. Total? 23 Α. Total. Have you ever been asked to do this by 24 Q.

1 any attorney for cases that were in Ohio other than the one obviously today? 2 Not that I recall. Since I do so few of 3 Α. these over such a long period of time, you know, if 4 5 I did another one in Ohio, it must have been long enough ago that I don't remember. 6 7 Q. All right. Do you recall any of the 8 attorneys that you may have worked with in the past 9 who have consulted with you, asked you to review 10 placental pathology? 11 Α. Yeah, I can remember the names of the 12 some of the attorneys. 13 Q. Can you tell me some of those names? Α. 14 I've reviewed some cases for Bruno & 15 Bruno in New Orleans, Louisiana, which is where I 16 grew up. 17 Q. Well, that worked out well. 18 Do you know whether they were 19 representing plaintiffs or defendants? Plaintiffs. 20 Α. 21 Okay. Who else? Q. 22 I've done work for Kirby & Edwards, which Α. 23 is now Kirby & Holt in North Carolina. 24You seem to have some good geographical Q.

spots to pick. And, again, are those representing 1 plaintiffs or defendants? 2 In those cases, plaintiffs. 3 Α. Ο. All right. Any other attorneys? 4 5 This firm here, Finelli & Margolis, Α. б although I can't tell you how many times I've reviewed documents for them. 7 8 Q. All right. 9 Α. And another group, I believe it's Glenn & 10 Sonoma. 11 Q. And where are they out of? 12 Α. I'm not sure. 13 All right. But you were representing Q. plaintiffs or defendants? 14 15 Α. Plaintiffs. In this -- Well, for Mr. Margolis or 16 Q. 17 Mr. Finelli, how often -- do you have any idea how often they've asked you to consult and review cases 18 19 on behalf of their clients? 20 Α. I'm not sure. Two, three, maybe. 21 Q. Have you ever given a deposition in any 22 of those cases that they've asked you to consult on? 23 THE WITNESS: I don't believe I've given a deposition for your firm before. 24

1 MR. FINELLI: And I'll stipulate on the 2 record that this is the first case he's reviewed for 3 us ever. 4 BY MR. SCHOBERT: 5 Q. All right. Doctor, then when you're 6 asked to do this, how do you charge? What are your 7 fees for review, the time that's spent initially reviewing versus today versus if you're asked to 8 come to trial? 9 Well, usually I would get a phone call 10 Α. 11 and there would be a discussion of the case. That 12 might be 20 or 30 minutes. And they decide that 13 they do or don't want to send me slides and medical 14 records to review. 15 Q. What type of things would you discuss in 16 that case to make the determination whether to send 17 you the slides? 18 Α. Well, just the nature of the case. Whether it's a type of case that I would have the 19 20 expertise to review. 21Q. Okay. Go ahead then. 22 Α. And then I would receive slides or records to review. I wouldn't charge for the time 23 24 that I initially spent talking on the phone to

1 decide whether or not it's something that I should look at. But when I received the slides, I 2 3 generally charge about \$250 an hour to review slides 4 or documents. And it's not always a direct reflection of how much time I spent. I might only 5 6 charge somebody for two hours of work if I spent 7 I sort of give an hourly charge based on what four. 8 I think the work was worth. When I send the bill, it's just \$250 on an hour times so many hours. 9 For 10 a deposition, I charge \$300 an hour with a two-hour 11 minimum. So it's \$600 if you stay under two hours. 12 And after that, it's 300 an hour, which I can break 13 into 15-minute increments or something. I'm not a 14 barracuda. And for a trial, I haven't done a civil 15 trial. I've testified in three criminal trials 16 where I don't get to charge anything related to my 17 work. And I haven't testified in a civil trial. So 18 I'll probably set that fee if and when that ever 19 happened. If I did it today, I would have to go 20 consult people on what the going rates are. But it 21 would probably be on the order of about \$2,000. MR. FINELLI: We can let you know. 22 THE WITNESS: I gather that it averages 23 24 around upwards of \$2,000. I know there are some

people who have a high opinion of themselves that charge exorbitant fees, but the judges get mad at them for doing that.

4 BY MR. SCHOBERT:

5 Q. Now, Doctor, from the placental pathology 6 that you looked at, and I apologize if I've asked 7 you, can you determine the etiology of how this 8 infection occurred? In other words, where it 9 originated, where it would have gone to first, 10 second, and third? Do you understand my question? 11 I know it's poorly worded, and I'm very tired. It's 12 a been a long three weeks. But if you understand 13 it. Or else I'll try to rephrase it.

A. Well, since there is chorioamnionitis in
the placenta and then the fetus either got that beta
strep in the womb or the birth canal.

17 Q. Okay. If it got it in the womb, what 18 would be the mechanism that would most likely occur? 19 How would that -- Is it an ascending bacteria that 20 gets into the uterus? I mean, how does that occur? 21 Α. In general, the bacteria would be in the amniotic fluid and would be breathed into the lungs. 22 23 MR. SCHOBERT: All right. I don't have 24 any further questions thank you.

MR. FINELLI: We'll read and sign. (Signature not waived.) And, thereupon, the deposition was concluded at approximately 4:40 p.m. _

1	State of Ohio :
2	SS: County of Franklin:
3	I, MARK H. LUQUETTE, M.D.,do hereby certify
4	that I have read the foregoing transcript of my
5	deposition given on November 14, 2002; that together
6	with the correction page attached hereto noting
7	changes in form or substance, if any, it is true and
8	correct.
9	
10	MARK H. LUQUETTE, M.D.
11	
12	I do hereby certify that the foregoing
13	transcript of the deposition of MARK H. LUQUETTE,
14	M.D. was submitted to the witness for reading and
15	signing; that after he had stated to the undersigned
16	Notary Public that he had read and examined his
17	deposition, he signed the same in my presence on the
18	day of, 2002.
19	
20	Notary Public
21	My commission expires
22	
23	
24	
Į	

1 CERTIFICATE State of Ohio : 2 SS: County of Franklin: 3 I, Susan M. Olson, Notary Public in and for 4 the State of Ohio, duly commissioned and qualified, 5 б certify that the within named MARK H. LUQUETTE, M.D., was by me duly sworn to testify to the whole truth in 7 the cause aforesaid; that the testimony was taken 8 9 down by me in stenotypy in the presence of said 10 witness, afterwards transcribed upon a computer; that 11 the foregoing is a true and correct transcript of the 12 testimony given by said witness taken at the time and 13 place in the foregoing caption specified. I certify that I am not a relative, 14 15 employee, or attorney of any of the parties hereto, 16 or of any attorney or counsel employed by the 17 parties, or financially interested in the action. 18 IN WITNESS WHEREOF, I have set my hand and 19 affixed my seal of office at Columbus, Ohio, on this 20 20th day of November, 2002. 21 SUSAN M. OKSON, Notary Public in and for the State of Ohio 22 and Professional Reporter. 23 24 My Commission expires July 2, 2007.

67