

IN THE COURT OF COMMON PLEAS

CUYAHOGA COUNTY, OHIO

JORDAN REAZE, etc., et al.,

Plaintiffs

vs.

UNIVERSITY HOSPITALS OF  
CLEVELAND, et al.,

Defendants.

No. 284973  
JUDGE PATRICIA ANNE  
GAUGHAN

COPY

THE DEPOSITION OF GEOFFREY ALTSHULER, M.D., taken on behalf of the Plaintiffs, pursuant to agreement, on Tuesday, December 12, 1995, at the Waterford Hotel, 6300 Waterford Boulevard, Oklahoma City, Oklahoma, before me, Julie Curry, Certified Shorthand Reporter within and for the State of Oklahoma.

A p p e a r a n c e s :

For the Plaintiff:

WILLIAM J. NOVAK, Esquire and  
PETER C. TUCKER, Esquire  
Rubenstein, Novak, Einbund, Pavlik & Celebrezze  
Suite 270, Skylight Office Tower  
1660 West Second Street  
Tower City Center  
Cleveland, Ohio 44113-1498

For the Defendants:

ROBERT C. TUCKER, Esquire  
Arter & Hadden  
925 Euclid Avenue, 1100 Huntington Building  
Cleveland, Ohio 44115-1475

MAYNARD PETERSON & ASSOCIATES  
1925 ONE LEADERSHIP SQUARE  
OKLAHOMA CITY, OKLAHOMA 73102  
(405) 232-9909

MAYNARD PETERSON & ASSOC.

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

GEOFFREY ALTSHULER, M.D.,  
having been produced and first duly sworn as a witness,  
testified as follows:

DIRECT EXAMINATION

BY MR. NOVAK:

Q For the record, Doctor, give us your name,  
please.

A Geo frey, G-e-o-f-f-r-e-y, Altshuler,  
A-l-t-s-h-u-l-e-r.

Q Historically, Doctor, I want to take you  
back to some medical legal consulting you did on Dalkon  
Shields cases back about 15 years ago. Could you tell me  
what the extent was of your work with respect to that  
consulting at that time?

A It was predominantly literally looking at  
slides and giving opinions to Harris Wagenseil,  
4-a-g-e-n-s-e-i-l, as to the extent to -- which in my  
opinion, the Dalkon Shield probably would have or would not  
lave had anything to do with the case.

I don't recall that I ever went to trial. I  
went prepared to go to trial on one occasion but didn't  
actually appear, And I can't even recall, because it is so  
many years ago, as to whether I would have done one  
leposition or five depositions; but, predominantly, it was

1 the capacity that I previously described.

2 Q Who is Harris Wagenseil?

3 A He had been with a firm in San Francisco,  
4 the name of which escapes me, and had been a specialist in  
5 litigation problems to do with mothers and babies and so  
6 forth so that my recollection was that the Robbins Company  
7 had attorneys who had referred those cases to this firm in  
8 San Francisco.

9 Q Dr. Sandmire, who is also an expert in this  
10 case for the defendant, did you ever have an opportunity to  
11 meet Dr. Sandmire during your work on Dalkon Shield cases  
12 during that period of time?

13 A No, I can't recall that I did because I  
14 think that you had mentioned -- I should use names  
15 obviously. Mr. Tucker had mentioned the name Sandmire to  
16 me. As I indicated, I don't particularly know Sandmire.  
17 So if I have met Sandmire, I don't even remember where I  
18 would have met him, So the same way when I walked in the  
19 door, I saw your colleague. I thought I recognized his  
20 Face, but I didn't.

21 MR. TUCKER: So the record is clear, I  
22 mentioned Dr. Sandmire's name to Dr. Altshuler just a few  
23 minutes ago in telling him why we were leaving tonight to  
24 fly to wherever we are flying, Chicago, because you are  
25 taking Dr. Sandmire's deposition tomorrow, He indicated he

1        didn't know who Dr. Sandmire was.

2                Q                (By Mr. Novak)    During the time that you  
3        worked on the Dalkon Shield cases, did you ever have an  
4        opportunity to meet Mr. Tucker, who is sitting next to you?

5                A                I can't recall ever having met Mr. Tucker,

6                Q                Were you paid by A.H. Robbins on those  
7        cases?

8                A                I don't believe so. I don't believe that I  
9        have ever been paid by A.H. Robbins on any case. You know,  
10       it is so many years ago, please understand it is like, you  
11       know, if I would say to you, "What did you do 15 years  
12       ago?"

13                                But, to the best of my recall, everything  
14       came through Harris Wagenseil. The reason I know Harris  
15       Wagenseil's name, candidly, is that he originally  
16       approached me on the basis that he had been to Dartmouth  
17       College, and I had been to Dartmouth College, and we  
18       Dartmouth men should stick together. I thought this is a  
19       guy whose name I won't forget.

20                Q                In 1991, you did a significant amount of  
21       work with insurance carriers. Would you tell me about  
22       that?

23                A                I would say that I have done quite a few  
24       cases that ultimately -- I don't just confine it to 1991,  
25       would have been situations wherein insurance companies had

1 paid my consultant's fee through the attorney firm that had  
2 retained me.

3 I have never, per se, at any time directly  
4 done work for insurance companies. To the best of my  
5 recollection, there has not been a case other than that an  
6 attorney has contacted me. And clearly if an insurance  
7 company was paying the tab, potentially it could be an  
8 insurance company's check.

9 Q Do you remember telling any lawyers in any  
10 depositions at any time that in 1991, you spent a lot of  
11 time doing consulting for insurance carriers?

12 A Yes. Let me clarify this so that there  
13 should be no misunderstanding. I have looked, and I  
14 appreciate the opportunity to correct the wrong impression.

15 I have looked at cases for insurance  
16 companies where risk managers, the one that comes to mind  
17 most clearly is the St. Paul Company. Risk managers have  
18 sent me cases, no if's, no but's, no maybe's. 1991 is four  
19 years ago. I don't know that it was necessarily in 1991;  
20 okay? But, absolutely, I have looked at cases for risk  
21 nanagers; okay?

22 In retrospect, at the least, the St. Paul  
23 Insurance Company was one such company. If there were  
24 other companies out there, I can't recall; okay?

25 Q I guess do you recall ever having a year,

1 let's say 1991 or '92, that was very chaotic as it relates  
2 to doing work for insurance carriers?

3 A I think you missed the point completely  
4 probably because I am failing to explain the situation;  
5 okay? I would say for six years, I have looked at many  
6 cases. That would be point number one, for six years;  
7 okay?

8 Please recognize I emphasize this because  
9 the Dalkon Shield cases were, I would believe, more than 15  
10 years ago. I have been in Oklahoma for 20 years. I  
11 believe the Dalkon cases I did were more than 15 years ago.

12 So, my involvement in legal cases, I  
13 believe, started in large part six years to seven years ago  
14 at the most; okay? I would say about in those days, from  
15 anywhere from four to five times as many of the cases would  
16 have turned out to have been for patient providers, in  
17 other words, when people would call me, I would say, "Don't  
18 tell me which side you are on," et cetera.

19 So my point is it turned out that I was  
20 being asked either by attorneys or their paralegals or  
21 their secretaries to look at cases. And four times or so  
22 or four and a half times as often it turned out that those  
23 were for patient providers.

24 Q Doctor, I think you are missing the point of  
25 my question. My question really is -- I am not asking if

1 you did individual consultations on individual cases. I am  
2 asking you if certain insurance carriers had you come in  
3 and do consulting work for them on a general basis during  
4 the years 1991 and 1992?

5 MR. TUCKER: E don't think that was your  
6 question. If that is the question you want to ask him --

7 MR. NOVAK: At least that is what I  
8 understood.

9 THE WITNESS: If that is your question, my  
10 answer is to the best of my recollection, that did not  
11 happen, period.

12 Q (By Mr. Novak) Now, sometime in February of  
13 1994 -- by the way, tell me who Mike Walsh is.

14 A Mike Walsh is the chairman of Fetal  
15 Developmental Evaluations. He is a pathologist by  
16 background who became a venture capitalist after obtaining  
17 a masters in business administration.

18 Q He started this company known as FDE?

19 A He did.

20 Q Do you have a contract with FDE; do you not?

21 A I have a contract as an independent  
22 contractor to the point of from 1994, I believe it was  
23 about February 1. And I have half of that amount of time  
24 that I did in '94 that I continue to do with FDE in '95.

25 Q You're paid on a yearly basis contract rate;

1 right?

2 A It is paid on a guarantee that if I would  
3 have committed to them, if they would need me, that they  
4 pay me on the guarantee that they will use me. In other  
5 words, I went half time at the University on the  
6 understanding that they would need me, so I said you would  
7 have to guarantee me, therefore, that you will use me.

8 Q They did use you?

9 A Yes. I did an enormous amount of work for  
10 them in 1994. I continue to contribute to their quality  
11 control programs in 1995.

12 Q Did you ever help prepare their brochures?

13 A Yes, I did.

14 Q In fact, there were two brochures; were  
15 there not?

16 A I would believe so. I couldn't swear to it.  
17 The brochures were actually in their draft form done by a  
18 sales promotion oriented person. His name was Bernie Ness,  
19 J-e-s-s, who was not with Fetal Development Evaluations at  
20 present. But, he was a promotion person who basically  
21 wrote that taking extracts of my publications and what I  
22 have written.

23 (Whereupon Plaintiff's Exhibit No. 1 was  
24 marked for identification.)

25 Q Let me hand you what we are going to mark as



1 Exhibit 1

2 A I am assuming that this is a photocopy of  
3 the final form. It certainly would appear to me to be a  
4 final copy of the final form as opposed to a draft form.

5 Q A lot of the language that is in here comes  
6 from you; isn't that correct?

7 MR. TUCKER: Object to that, as to a lot of  
8 the language in here.

9 Q (By Mr. Novak) You helped draft this; did  
10 you not?

11 MR. TUCKER: Objection to the form of that,

12 THE WITNESS: Yes, I helped formulate this.  
13 I can't swear to the fact that I wrote the verbatim  
14 necessarily every sentence or paragraph, but certainly  
15 there are some pages here which were taken from my  
16 indications for placental examinations as a result of a  
17 committee that I chaired for the college of American  
18 Pathologists.

19 So, you know, I did not produce this  
20 document forth to a printer who then did it.

21 Q (By Mr. Novak) I understand. My question  
22 going back is: You took part in helping draft this; is  
23 that right?

24 A I have already indicated that I participated  
25 and as such accept responsibility for the validity of

1 statements that are in there.

2 Q You are the director, are you not, for  
3 Placental Evaluations?

4 A Not really. It started off as a venture  
5 capital arrangement wherein we thought that we would have  
6 many satellite branches which was the reason for the  
7 enormous amount of time and work and computer programs,  
8 integration of manuals and stuff like that and that purely  
9 as an operational thing that it would make a lot of sense  
10 to say that I would be the director, and there would be all  
11 these other colleagues.

12 I have forgotten the term that we use now.  
13 If it is still director, it is not in the same connotation  
14 of the original plans.

15 MR. TUCKER: Does it say in here he was the  
16 director?

17 MR. NOVAK: It says expert placental  
18 pathologist analysis, Geoffrey Altshuler, M.D., director.

19 Q (By Mr. Novak) Were you a director at least  
20 at one time?

21 A In the context of that, the direction of the  
22 quality control and the professional standards would be my  
23 responsibility. In other words, let me be quite sure that  
24 there is no misunderstanding of words.

25 I am not an employee or participatory

1 director on the FD board which was directors, okay, which  
2 has chief executive officer, which has chairman of the  
3 board and so forth. I am a director and was a director an  
4 this document only from the point of view of being  
5 responsible for the scientific standards of the program.

6 Q Your name is also on the back as a  
7 reference; is that correct, last page?

8 MR. TUCKER: As a reference or one of his  
9 papers?

10 Q (By Mr. Novak) One of your papers is used  
11 as a reference?

12 A That is correct.

13 Q Okay. Now, so I understand, when people put  
14 up money as a venture capital, they want to make some money  
15 out of a deal; right?

16 MR. TUCKER: Objection to the form of that  
17 question.

18 Q (By Mr. Novak) Well, I'll ask you. Did you  
19 know this Mike Walsh? I mean he was putting this money up  
20 front with the anticipation there would be some profit  
21 realized out of this venture; isn't that right, if you  
22 know?

23 MR. TUCKER: Objection as to asking this man  
24 as to what Mike Walsh' intention was.

25 MR. NOVAK: If he knows.

1 MR. TUCKER: Ask Mike Walsh that question.

2 MR. NOVAK: I'll ask him.

3 MR. TUCKER: I object to the question.

4 THE WITNESS: My opinion would be pretty  
5 much what I would assume would be your opinion. Mike Walsh  
6 told me that he had a two part component to his purpose in  
7 recruiting me.

8 One was that the PDE program, as he defined  
9 it, had a service role for which there would be fees for  
10 service. And it had a foundation that was available to it,  
11 and it is not appropriate for me to say how much money that  
12 the foundation supports for research. But, I can assure  
13 you it is a substantial foundation that is operational and  
14 a highly respected one with ultra highly respected people  
15 on its scientific advisory board.

16 I had always assumed that on the research  
17 side, it would lose in the sense that that is the whole  
18 purpose of research, but that on the service side, that it  
19 would generate monies. I did not imagine that Mike Walsh  
20 would want to be writing off every single expense to do  
21 with research and service. **And** the way that he does it, I  
22 can't answer.

23 I mean he is the venture capital *guy*. I am  
24 the medical, you know, scientist, if one can use that word.

25 Q (By Mr. Novak) Cleveland, Ohio is listed as

1 a satellite office there; is it not?

2 A Yes.

3 Q Was there ever an office in Cleveland?

4 A Well, I should correct language when one  
5 says office. It seems to me that, and you would have to  
6 check with Mr. -- at least Dr. Walsh. Dr. Walsh, by my  
7 understanding, had discussions with people in Cleveland who  
8 are medical people.

9 I don't know that it is appropriate for me  
10 to tell you, you know, the names and the discussions and  
11 all of that that Dr. Walsh would have had with medical  
12 folks who actually, university faculty type people, in  
13 different parts of the United States other than names that  
14 may appear on, by my recollection, documents other than  
15 what you have.

16 I believe in what we did with these  
17 documents is we named centers around the United States of  
18 America based upon letters of intent that he had from  
19 various individuals.

20 Q Fact of the matter is, there was never a  
21 Cleveland office; was there?

22 MR. TUCKER: I don't think he ever said --

23 MR. NOVAK: I was trying to ask him that.  
24 He went on rambling about something else.

25 Q (By Mr. Novak) Was there ever a Cleveland

1 office, if you know?

2 a There was no office.

3 Q Okay. Now, how did you first meet Mr.  
4 Tucker here?

5 A He called me on the telephone, same as I  
6 indicated many people call me. He asked me to look at a  
7 case. I told him that I didn't remember him at all; is  
8 that true? Words to that effect, he said that is true, I  
9 said so don't tell me which side you are on and don't give  
10 me any clinical information. If you accept those terms and  
11 the fact that my fee is 400 an hour, I will look at the  
12 slides provided you redact any clinical information from  
13 the slides.

14 So what I have brought to you is a file  
15 which traces that in the sense that I have the original  
16 redacted surgical pathology report. So that was the  
17 background completely. I didn't know him from a bar of  
18 soap.

19 Q When you said you told him about \$400 an  
20 hour, didn't you tell him about sending him a fee letter?

21 A Absolutely. That is a standard thing that I  
22 have been doing, I would say, for the last year and a half.

23 Q Your standard fee setup is, what, \$2,000 a  
24 case?

25 A No, actually it has turned out to be less

1     than that at this point. What I have been doing in the  
2     last year or two is probably substantially less legal cases  
3     than I did in 1993, 1992 and specifically prior to that.  
4     What I have tried to do is I tried to say to attorneys that  
5     if they can give me a core group of information when I call  
6     and I say, you know, my opinion is one, two, three, four.  
7     This is the perspective, and my opinion is, the perspective  
8     remains true, that I can counsel them on the telephone if  
9     they know a series of facts.

10                     Doing it that way, I feel I can charge them  
11     a thousand dollars. And if I need on a complex case to go  
12     on and take photographs and so forth if I am not sure, then  
13     I will do that, and it will be 2,000. But I would say in  
14     the last year or two, most of the first consultations I do,  
15     such as I did for Mr. Tucker, end up being a thousand  
16     dollars and probably don't go on beyond that.

17             Q             Do you have a copy of your fee agreement,  
18     your printed fee agreement, in your file here?

19                     MR. TUCKER: I have a copy of the  
20     correspondence that he sent to me and that I sent to him.  
21     I have a copy of it.

22             Q             (By Mr. Novak) But this is a standard fee  
23     agreement that you sent out to any lawyer that consults  
24     with you; is that right?

25             A             It is one of them; it is one of them. The

1 one that he had was an initial one that does not include as  
2 much detail as I provide an others, if people want it. If  
3 they wanted to know what I charge for going to trial and  
4 what my policies are for things like that --

5 Q That is 5,000 a day; right?

6 A Depending -- you know, if it is a place  
7 where I think I can get in and out and it is not a  
8 stressful amount of work or time and so forth, it may be  
9 4,000 a day. It is not rare for me to, however, anticipate  
10 on some of the cases, depending upon where they are, that  
11 if it is going to be a horrendous day, that I would  
12 probably say I will make it 5,000.

13 Q I guess are you telling me that you did not  
14 send Mr. Tucker the standard fee agreement with the up  
15 front 2,000, his agreement was a little different than the  
16 norm?

17 A No, that is not true.

18 MR. TUCKER: He didn't say that.

19 THE WITNESS: What I said is I have a  
20 tendency now to use just two formats. One, that does not  
21 include a whole bunch of rhetoric to do with trials, the  
22 other that has a bunch of rhetoric to do with trials.

23 The bunch of rhetoric includes things like  
24 if the case settles at the last moment, that clearly I have  
25 to be compensated for the work that is done.



1           Q           (By Mr. Novak) You would agree the more you  
2 charge, the notion is that it is a big complex case; right?

3           MR. TUCKER: Objection.

4           THE WITNESS: Well, I think applying common  
5 sense, it is more probable than not that price matches  
6 complexity.

7           Q           (By Mr. Novak) Did you ever tell anybody  
8 that price also means big?

9           MR. TUCKER: Objection.

10          THE WITNESS: What do you mean by big?

11          Q           (By Mr. Novak) Big value case.

12          A           I think it's --

13          Q           Potential value?

14          A           I think it is implicit that both cases that  
15 I have done for patients additional to and as well as  
16 patient providers, just so happens that attorneys are such  
17 that when there is an enormous amount of money, which to me  
18 is \$10 million, \$15 million across the table, the demands  
19 upon me are much more than if it is a different case which  
20 might be for \$500,000. That to me, again, is an  
21 application of common sense.

22          Q           Okay. So, in this case, so I understand,  
23 Mr. Tucker first contacted you on the phone; is that right?

24          A           Yes.

25          Q           Then he sent you a letter including the

1 materials that you reviewed?

2 A Yes.

3 Q Did you --

4 A Slides and redacted surgical pathology  
5 report.

6 Q Okay. Then you prepared your first report;  
7 right?

8 A Yes.

9 Q And then sometime later, he sent you  
10 records, and you prepared the second report?

11 A That is true.

12 Q Okay. Now, you do keep on a computer  
13 somewhere, do you not, your hours that you keep on each  
14 case?

15 A I keep track of how much I have billed to  
16 people. I keep little pieces of paper that I destroy after  
17 have put them into the bill on correspondence. I don't  
18 keep a running ledger or log.

19 Q In your initial conversation with Mr.  
20 Tucker, did he ever mention to you that he represented  
21 University Hospital?

22 A No. I made that crystal clear to you. That  
23 has been answered twice.

24 Q Now, you have testified on behalf of  
25 University Hospital in Cleveland in the past; have you not?

1           A           I could be wrong, and I don't remember the  
2 cases in truth, but I think I have done that at least two  
3 or three times in the last six years. If not three time,  
4 certainly I would think twice.

5           Q           None of those cases went to trial; did they?

6           A           I can't recall in truth. It has been rare  
7 for me to go to trial in the sense that I doubt that I have  
8 done more than 15 trials in six years.

9           Q           In those six years, you probably looked at  
10 maybe 250 cases?

11          A           I can't be accurate because the truth is I  
12 can tell you this, that I had thought that I had been doing  
13 as many as 20, 24 depositions a year and, you know, one or  
14 two cases a week, that sort of thing. But in truth, I know  
15 just based upon the fact that I have gone to half time,  
16 that in the last whatever it is, from October, '93 when I  
17 First became active with the PDE program, I have done  
18 substantially less than that.

19          Q           You would agree with me that less than half  
20 of your work is at the hospital; is that right?

21          A           Oh, that is a ridiculous understatement.  
22 Let me explain to you. When I write chapters on things  
23 now, which I continue to do, I have a fairly sizeable  
24 publication coming out in February or so of next year, I  
25 have another one I am working on now. I have a major book

1 chapter in a major -- coming out. That work is done in my  
2 so-called off time.

3 When I do have time at the University, I am  
4 intensively doing surgicals throughout the day and  
5 autopsies and teaching residents and postdoctoral level  
6 people so that when I do my writing, that has to be done  
7 predominantly on the other two weeks during which time I do  
8 the bulk of my consultant stuff for cases such as this one.

9 Q Maybe my question was the wrong question.  
10 More than half of your income is from FDE and medical-legal  
11 consulting as opposed to the University work?

12 MR. TUCKER: Objection. I don't think he  
13 has to answer that.

14 MR. NOVAK: He has answered it in many  
15 depositions already.

16 MR. TUCKER: So he --

17 MR. NOVAK: You are not going to let him  
18 testify to that even though he said it before?

19 MR. TUCKER: You would not let your  
20 witnesses testify as to what kind of money they made in any  
21 other case. Dr. Tucker, Dr. Kaplan --

22 MR. NOVAK: I am not asking how much money  
23 they made. I am simply asking the percentage of income  
24 that he derives from medical-legal versus what he derives  
25 from pure university work. I am not asking what he makes.

1 MR. TUCKER: You are asking the sister  
2 question to the question of how much money you make.

3 MR. NOVAK: Are you going to tell him not to  
4 answer that? Is that what you're telling him?

5 MR. TUCKER: You can ask him what percentage  
6 of his time he spends on medical-legal matters. I think  
7 that is a pertinent and relevant question. What I am  
8 telling him, he doesn't have to answer that question based  
9 upon the rules that you have set.

10 MR. NOVAK: I didn't set any rules. I am  
11 not going to waste any time. Let's move on.

12 MR. TUCKER: When I asked those questions of  
13 your witnesses --

14 MR. NOVAK; Just let the record show Mr.  
15 Tucker has instructed this witness not to answer that  
16 question even though he has answered it in 1994, and the  
17 fact of the matter is more than half of his income is  
18 derived from medical-legal and FDE.

19 Q (By Mr. Novak) Now --

20 MR. TUCKER: So it is on the record. You  
21 know the answer. Why were you asking it anyway?

22 MR. NOVAK: Because I wanted to see if he  
23 would say the same thing twice.

24 MR. TUCKER: Trying to trick him.

25 MR. NOVAK: Oh, yeah. He is too smart for

1 that.

2 Q (By Mr. Novak) Anyway, Doctor, let me ask  
3 you: Is this your entire file on this case?

4 A Except for my correspondence with Mr.  
5 Tucker.

6 Q Now --

7 MR. TUCKER: By the way, I have it if you  
8 want it. You want to make the agreement that you will turn  
9 over your correspondence?

10 MR. NOVAK: My correspondence, you have.

11 MR. TUCKER: And what you sent to Dr.  
12 Kaplan?

13 MR. NOVAK: You will not get my work product  
14 which was done prior to the filing of this lawsuit.

15 MR. TUCKER: What in the world difference  
16 does that make?

17 MR. NOVAK: Big difference.

18 MR. TUCKER: None at all.

19 MR. NOVAK: Big difference.

20 MR. TUCKER: I will be glad to turn over --

21 MR. NOVAK: May I see this?

22 THE WITNESS: You are very welcome. In  
23 fact, let me -- before you start, let me just explain two  
24 things that will save time. One is that it has all been  
25 highly organized, so I appreciate if you would keep it in

1 the same sequence that you have it.

2 The other is to assure that some of these  
3 things for your convenience right now are for you to keep  
4 right now separate from whatever you want to put forth as  
5 exhibits in an official capacity; Okay? What you are  
6 looking at right now --

7 MR. NOVAK: NO, Let me look.

8 THE WITNESS: All right. Okay.

9 Q (By Mr. Novak) By the way, you are not a  
10 pediatric neurologist; right?

11 A I am not.

12 Q You cannot read MRI's; can you?

13 A I cannot.

14 Q So if the MRI at the Cleveland Clinic or any  
15 subsequent MRI's demonstrated a profound total asphyxia,  
16 and that was put up for you to take a look at and give an  
17 opinion on, you wouldn't be able to do that; would you?

18 A I will not participate in anything to do  
19 with that, nor to do with reading fetal heart monitoring.  
20 And I will not represent myself to be a hands-on baby  
21 doctor who puts my hands on babies and mothers.

22 Q Now, I see there is a thing that says Bill  
23 Novak said. What is that for?

24 A You can have that whole set right this  
25 minute.

1           Q           So that is to educate me?

2           A           Well, I think that is to provide you as a  
3 matter of discovery my opinions relative to this case,  
4 relevant to this case. Now, it is implicit that you can  
5 put any of this on as an exhibit, but I thought for  
6 convenience you might appreciate right now instead of  
7 having to go out and Xerox your own copies.

8           Q           Did you make photomicrographs in this case?

9           A           I did.

10          Q           Are they in here also?

11          A           I have a set. I provided a duplicate set to  
12 Mr. Tucker.

13          Q           I assume if I ask you for a copy of the  
14 photomicrographs, you will give me those?

15                   MR. TUCKER: Sure.

16          Q           (By Mr. Novak) Now, all this additional  
17 dictating that I notice in your chart, appears that -- what  
18 do you do? You take portions out of the chart and kind of  
19 do summaries before you do your report; is that right?

20          A           No. What all I did, which is not a big  
21 deal, is I basically took the same text out of a Word  
22 Perfect file and condensed some of it into smaller fonts to  
23 facilitate in the progress of the deposition. My  
24 understanding is you have seen the bulk of this already.

25                   MR. TUCKER: That's correct. The reports



1 have been provided.

2 Q (By Mr. Novak) Just so the record shows,  
3 none of Mr. Tucker's cover letters to you are in here; are  
4 they?

5 A That is correct.

6 MR. TUCKER: As I said, I am willing. I am  
7 right here.

8 MR. NOVAK: Let's save time; okay?

9 MR. TUCKER: No. I want the record to  
10 reflect that we had this conversation at your expert, Dr.  
11 Kaplan's deposition. You refused to turn over what you had  
12 sent to Dr. Kaplan. I made the point there, and I am  
13 making it again, that I have no problem turning over my  
14 correspondence to Dr. Altshuler or anyone else --

15 MR. NOVAK: Are you done?

16 MR. TUCKER: -- with whom I have  
17 corresponded, but what is good for the goose is good for  
18 the gander. I am not going to turn over correspondence and  
19 materials that have been sent to the experts when you  
20 refused to do so.

21 MR. NOVAK: Are you done?

22 MR. TUCKER: Sure.

23 MR. NOVAK: Okay.

24 Q (By Mr. Novak) Do you have anyone help you  
25 prepare these cases?

1           A           I'm sorry. Let the record reflect that, you  
2 know, the witness ~~has~~ laughed. No.

3           Q           Obviously when you do your articles and your  
4 research, you have medical students help you; isn't that  
5 correct?

6           A           No.

7           Q           You don't have any residents help you?

8           A           No.

9           Q           Come on.

10          A           No.

11          Q           You got to be kidding me.

12          A           No.

13          Q           How many hours a week do you work?

14          A           That is not an unreasonable question. I  
15 probably underestimate it. I would think it is reasonable  
16 to say in excess of 60 hours. I don't get into the  
17 competitive concept of is it 70, or is it 68, or is it 81,  
18 but I'm a workaholic, period.

19          Q           About 25 of that is spent on medical-legal;  
20 isn't it?

21          A           Well, since much of what I have written for  
22 the last 25 years relates to the relationship between the  
23 placenta and the outcome of the baby and since I am using  
24 my own papers, then it is obvious one could say 25 hours or  
25 5 hours depending upon how you define it.

1                   Anytime I do studies that I have published,  
2   that information, for the very nature of it, is say I have  
3   been doing this sort of stuff for 25 or more years is  
4   relevant to medical-legal but does not mean to say that  
5   those are billable hours.

6           Q           Do you have a record of the phone calls that  
7   Mr. Tucker made to you?

8           A           No.

9           Q           Do you have a record in your computer of the  
10   phone calls he made to you?

11          A           No.

12          Q           Do you have -- I understand your wife is  
13   your bookkeeper?

14          A           Well, what happens is my wife takes the hard  
15   copies of things that go to our accountant. She is not,  
16   per se, my bookkeeper. She is the person who maintains  
17   records that go forth to our accountant.

18          Q           Do you have a computer program whereby you  
19   keep all of the files that you work on from a medical-legal  
20   standpoint?

21          A           That is true. Now I have lost -- let me  
22   emphasize, I have lost some of that, so that I don't want  
23   you to think that I have have every single legal case that  
24   I have done. But I will state that I have a substantial  
25   amount of those cases that I still have on file. There was

1 a stage when I had not done backups properly and retained  
2 things properly, and I lost quite a lot.

3 Q How well do you know Dr. Redline?

4 A Not well at all unfortunately in the sense  
5 that if we have had different opinions on things, we have  
6 never had the chance to sit down and talk about them. I  
7 don't know the extent to which we basically differ in  
8 opinions in terms of what he has published and I have  
9 published until such time as we would sit down and, you  
10 know, define these things.

11 Q Have you ever talked to Dr. Redline about  
12 this case?

13 A No. In truth, to be honest with you, I  
14 can't recall that I have ever particularly spoken with Dr.  
15 Redline, period.

16 Q Have you had any conversations with anyone  
17 other than Mr. Tucker about this case?

18 A No.

19 Q Now, did Mr. Tucker report to you about Dr.  
20 Kaplan's deposition?

21 A Yes, he did.

22 Q Did he speak with you before her deposition  
23 so that he could prepare himself for it?

24 A Yes, he did.

25 Q How long a conversation did you have with

1 him prior to that deposition?

2 A Including as I recall, I am pleased to say I  
3 even have it in my pocket, I believe, because I told him  
4 what I believe I had accrued in terms of time that I had  
5 done, a total of one hour between a discussion of the  
6 interrogatories and Dr. Kaplan.

7 Q Did Mr. Tucker provide you with a copy of  
8 Dr. Kaplan's deposition?

9 A No.

10 Q You had listed records that --

11 A Excuse me, please. I do have a note to the  
12 best of my knowledge. This sort of thing will get torn up  
13 later after I send bills, but on November 14, I consulted  
14 with Mr. T re: Interrogatory and review of files Re: Cindy  
15 Kaplan's November 8, '95 letter. Then on December 11, I  
16 spent two hours, which was yesterday, discussing Cindy  
17 Kaplan's deposition.

18 Q With who?

19 A Mr. Tucker.

20 Q So you spoke with Mr. Tucker?

21 A Not about, per se, Mr. -- not about Cindy  
22 Kaplan's -- let me be sure there is no misunderstanding.  
23 On November 14, I spoke with him regarding the  
24 interrogatories and information that Dr. Kaplan had  
25 provided in the November 8 letter; okay? That was prior to

1 her deposition; okay? November 8.

2 Last night, I spent two hours with Mr.  
3 Tucker basically going over this case within which two  
4 hours he told me about Dr. Kaplan's opinions.

5 Q Okay.

6 MR. TUCKER: I tell you what I am going to  
7 do, so that dates and everything are clear, I am going to  
8 give you all of the correspondence that I sent to him with  
9 the understanding that you will give me the correspondence  
10 you have sent to your experts too.

11 MR. NOVAK: I want you to know you have that  
12 already.

13 MR. TUCKER: And anything you sent to them.

14 MR. NOVAK: No. No, you are not going to  
15 get my case summary that was done long before it had  
16 nothing to do with correspondence.

17 MR. TUCKER: But you will acknowledge you  
18 sent it to the expert?

19 MR. NOVAK: Absolutely.

20 MR. TUCKER: I will turn over my  
21 correspondence too with Dr. Altshuler because --

22 MR. NOVAK: Because you are a good guy.

23 MR. TUCKER: Because I am a very good guy.

24 MR. NOVAK: Yeah, right.

25 MR. TUCKER: It has all the dates of the

1 various things I have sent to him.

2 Q (By Mr. Novak) Do you know Dr. Kaplan?

3 A Very well indeed.

4 Q Would your opinion be of Dr. Kaplan that she  
5 is a well respected pathologist?

6 A Absolutely. I would probably punch anybody  
7 on the nose who would say otherwise.

8 Q Arter & Hadden used to have a law office in  
9 Oklahoma City; didn't they?

10 MR. TUCKER: No.

11 THE WITNESS: I really don't know.

12 Q (By Mr. Novak) How about Dallas?

13 A I don't know.

14 Q Do you remember Arter & Hadden working on  
15 any FDIC cases up here?

16 A No. I don't know them from a bar of soap.

17 Q You worked for Arter & Hadden prior to Mr.  
18 Tucker; right?

19 MR. TUCKER: Absolutely not.

20 THE WITNESS: Not to my knowledge.

21 Q (By Mr. Novak) I thought you said you  
22 worked on some cases in the past?

23 A I never said to you, nor can I recall ever  
24 saying in any other conversation that I have ever done  
25 anything with that firm. If I have, let me just say this,

1 I don't keep track of everything with any sort of  
2 passionate desire to this and that; okay?

3 All I am telling you is to the best of my  
4 recollection, I don't know that firm from a bar of soap  
5 prior to Mr. Tucker.

6 Q Let me just ask you --

7 MR. TUCKER: Let me state on the record I  
8 don't believe that my law firm has ever worked with Dr.  
9 Altshuler in the past, certainly not in any FDIC matters,  
10 but more than that, on any medical-legal matters.

11 Q (By Mr. Novak) Doctor, you have had your  
12 depositions taken by enough law firms that I assume you  
13 have a feel for who represents who. I guess my question is  
14 is when you see a law firm that has offices in Columbus,  
15 Dallas, Washington, D.C., Irvine, Los Angeles and San  
16 Francisco as well as Cleveland, is that going to be the  
17 kind of law firm that represents claimants or plaintiffs,  
18 or is that going to be the kind of law firm that represents  
19 hospitals?

20 MR. TUCKER: Objection to the question. Go  
21 ahead.

22 MR. NOVAK: The reason I ask that is because  
23 your introductory paragraph on every report you have ever  
24 written contains the same preface, that you don't know who  
25 is representing who.



1 MR. TUCKER: Robbins, Kaplan up in  
2 Minneapolis is one of the largest law firms in **the** country  
3 with law offices all over the place. They represent  
4 plaintiffs; right, Mr. Novak?

5 MR. NOVAK: I don't know.

6 MR. TUCKER: Well, they are 300 plus  
7 lawyers. They represent plaintiffs.

8 MR. NOVAK: I don't --

9 THE WITNESS: Is it now my time to answer?

10 MR. NOVAK: Sure.

11 MR. TUCKER: Go ahead.

12 THE WITNESS: There is a crude Navy  
13 expression which I won't use, but basically its message  
14 says never assume anything. And I long since learned  
15 having made one or two mistakes in my life on an assumption  
16 on what would appear to be logical that that is not true.  
17 And, in fact, you know, I think that Mr. Tucker said the  
18 rest of it.

19 Q (By Mr. Novak) Have you ever talked to Dr.  
20 Sandameyer about this case?

21 MR. TUCKER: You asked that question.

22 MR. NOVAK: No. I don't think I did.

23 THE WITNESS: The answer is obvious because  
24 I indicated to Mr. Tucker who put it on the record with me  
25 that I didn't even remember the name of Sandmire, so

1 obviously I hadn't spoken with him.

2 Q (By Mr. Novak) The fact that Mr. Tucker  
3 represented Dalkon Shield, the fact that Mr. Sandmire was  
4 paid by A. H. Robbins in the '80s and the fact that you had  
5 done consulting for this Law firm regarding Dalkon Shields  
6 is coincidental; is that right?

7 MR. TUCKER: Objection to the form of the  
8 question. Never did any consulting for this law firm for  
9 Dalkon Shield.

10 MR. NOVAK: Not yours, a law firm. He did  
11 consulting for a law firm regarding Dalkon Shield cases.  
12 He did it.

13 MR. TUCKER: Yes.

14 MR. NOVAK; That is --

15 MR. TUCKER: What is your point?

16 MR. NOVAK: My point is you have worked on  
17 Dalkon Shield cases, Sandmire was paid by A. H. Robbins in  
18 the '80s. He worked on Dalkon Shield cases. My question  
19 simply is: Is it just a coincidence that all three of you  
20 at one time or another had some contact with Dalkon Shield,  
21 and you never got to know each other?

22 MR. TUCKER: Objection as to what is  
23 coincidence or not. He has already told you he never met  
24 me before, He already told you he never met Dr. Sandmire.

25

1 MR. NOVAK: I just wanted to understand.

2 Q (By Mr. Novak) You don't know any of these  
3 guys except for the first time you met Mr. Tucker was by  
4 telephone conversation in August; is that right?

5 A I have said that repetitively.

6 Q Okay. In your definitions of hypoxia, I  
7 notice you use the words chronic versus acute. Would it be  
8 fair to state that whenever you use the word chronic, you  
9 are generally talking about 24 hours or more; is that  
10 right?

11 A In the context of perinatal litigations,  
12 wherein I am using clinicopathologic correlations in  
13 contradistinction from light microscopic changes, it would  
14 be within or greater than 24 hours that I would define  
15 acute meaning within or chronic meaning in excess of 24  
16 hours.

17 Q When you talk about perinatal, you generally  
18 include that one month following delivery; do you not?

19 A That is correct.

20 Q Okay. Now --

21 A There is just one other statement which if  
22 you can type this in block letters that I would like to  
23 say, there is a huge difference between when I time  
24 something according to a histopathologic change from when I  
25 time it according to a pathophysiological change. So in

1 the event that I am misunderstood down the turnpike as we  
2 keep on going in this deposition, you know, I am requesting  
3 the opportunity to clarify that right here and now.

4 Q Whatever that meant. Anyway, you would  
5 agree with Dr. Benirschke that you cannot time an insult  
6 based on nucleated red blood cells; is that right?

7 A That is not what Dr. Benirschke said. Few  
8 people understand Dr. Benirschke better than I. What Dr.  
9 Benirschke and I have both said is we cannot time it  
10 precisely. You left out the word "precisely".

11 Q But the fact of the matter is that you  
12 cannot time it precisely; is that right?

13 A That's right.

14 Q And the fact of the matter is that no one is  
15 an expert on the timing of the manifestation or  
16 fractionization of nucleated red blood cells either; is  
17 that correct?

18 A You would have to define the question. If  
19 you are basically saying nobody else in addition to  
20 Benirschke and Altshuler can define things very precisely,  
21 I would agree with you.

22 Q Including you?

23 A That's right. That is what I have just  
24 firmly indicated, including me, very much so.

25 Q So, in any given case, you could not tell us

1 when nucleated red blood cells would begin to manifest; is  
2 that right?

3 MR. TUCKER: That is not what he said.

4 THE WITNESS: That is absolutely not what I  
5 said. What I said was I am not able to give you a precise  
6 timing. By the word precise, one speaks of concepts of  
7 seconds, minutes, of very few hours, maybe two or three is  
8 when you start to be able to be precise as opposed to two  
9 or three minutes.

10 Q (By Mr. Novak) Doctor, I am simply looking  
11 at something you wrote entitled a conceptual approach to  
12 placental pathology and pregnancy outcome. There is a  
13 sentence there on page -- I guess it is in seminars and  
14 diagnostic pathology. Page 217 of that article, there is a  
15 sentence there that says, "I am not aware of anyone who  
16 knows the precise time course of nucleated red blood cells  
17 in the placenta and peripheral blood of the hypoxic human  
18 fetus in newborn.

19 MR. TUCKER: You want to show it to him?  
20 That is not inconsistent with what he just said.

21 MR. NOVAK: My question is --

22 MR. TUCKER: What is your question?

23 Q (By Mr. Novak) No one knows the precise  
24 time course of nucleated red blood cells in the placenta;  
25 isn't that correct?

1           A           Yes. We have just spent three minutes  
2 reaffirming that. I don't know the precise time course.  
3 Dr. Benirschke doesn't know it. Basic scientists in  
4 hematology don't **know** it in the context of, again in block  
5 letters, seconds or minutes.

6                       What we do know is that if there is a  
7 massive acute blood loss, one can get the response within  
8 two hours. Benirschke knows that, Altshuler knows that. I  
9 venture to say other people know that.

10           Q           You would agree with me that you can have an  
11 acute hypoxic event superimposed upon chronic hypoxia; can  
12 you not?

13           A           I agree a hundred percent.

14           Q           You would also agree with me that you could  
15 have hypoxia sufficient to produce nucleated red blood  
16 cells without asphyxia?

17                       MR. TUCKER: Without asphyxia?

18                       MR. NOVAK: Uh-huh.

19                       THE WITNESS: Well, I tell you, Bill Parer,  
20 P-a-r-e-r, wrote a wonderful paper probably within the last  
21 two or three years emphasizing the difficulties and the  
22 diagnosis of asphyxia. I can't second guess everybody  
23 else's definition of asphyxia, so I can't answer that  
24 question. The word asphyxia is an extremely complex  
25 entity.

1 Q (By Mr. Novak) What is asphyxia to you?

2 A Asphyxia to me is a situation of defining  
3 conditions which might be reasonably accepted by clinical  
4 colleagues saying what those criteria are and hoping that  
5 they will agree that the diagnosis is reasonable in the  
6 context of the usage.

7 And I know for a fact since you have read  
8 that paper, you have read my paper with Dr. Allen Herman in  
9 which I do believe I gave the criteria relative to less  
10 than or more than 24 hours and what the condition of the  
11 associated newborns would have been.

12 Q Can you have asphyxia without irreversible  
13 brain damage?

14 MR. TUCKER: Can you?

15 MR. NOVAK: Uh-huh.

16 THE WITNESS: We are running into the  
17 difficulties of two men pulling on the tail of an elephant.  
18 I have told you that you would have to define for me then  
19 what you mean by asphyxia.

20 Q (By Mr. Novak) I am using your definition.

21 A Well, by my definition -- what is your  
22 understanding, incidentally, of my definition?

23 Q I am not the one being questioned.

24 A Well, my point is I can't answer your  
25 question unless you be specific. And you just said to me

1 you are using my criteria. I have to know what criteria  
2 you are talking about, and do you understand my criteria?  
3 Because if you really do understand my criteria, it is  
4 impossible for anybody to answer the question as you framed  
5 it.

6 Q Just so I know, it is impossible to answer  
7 the question as to whether or not you can have asphyxia in  
8 a fetus and not have irreversible brain damage, it is  
9 impossible to answer that question; is that right?

10 A In the way you framed it because to be  
11 specific, I don't know what you mean by asphyxia. Then you  
12 turn around and you say, well, I am using Altshuler's  
13 criteria. I don't know which particular criteria you are  
14 talking about.

15 Q Do you understand there is a difference  
16 between partial and total asphyxia?

17 A Of course there is. Also when Ron Meyers  
18 used that expression partial and total asphyxia, it was  
19 substantially different from what terminology is in the  
20 80s and the '90s.

21 Q What is your understanding of partial  
22 asphyxia?

23 A Partial asphyxia at this point has been so  
24 clouded over the years, that I don't think anybody can have  
25 a complete understanding in the '90s as to what that means.



1 Let me just say this, okay? Let's blow all the foam off  
2 the beer --

3 Q Let the horse out of the barn while we are  
4 at it,

5 A All right. Okay. Broadly speaking, in my  
6 opinion, there are three situations to do with a critical  
7 degree of hypoxia. One is a very, very prolonged period of  
8 low grade hypoxia, which over time, can become critical and  
9 implicitly to the point that it can kill fetuses. That is  
10 one kind.

11 Now, in as much as that is the cause of  
12 death, it would be naive to deny the word asphyxia, but yet  
13 it built up the best illustration being in the mountainous  
14 districts where 40 million people live in the world,  
15 chronic hypoxia built up over time.

16 Another is the overwhelming acute and  
17 sustained critical lack of oxygenation to the brain which  
18 can produce massive multi-system damage that is unrelenting  
19 that cannot be corrected by therapeutic intervention.  
20 There is that kind.

21 Unfortunately, the bulk of what I as a  
22 person who has been interested in these problems for 25  
23 years see in cases like the problem and the tragedy of  
24 Jordan, would be the third kind, and you alluded to it  
25 earlier. The child who has had substantial major damage

1 over time and who experiences a period of superimposed  
2 acute lack of oxygen during the delivery process.

3 Q Would you agree with me there was a major  
4 acute insult sometime approximately three hours prior to  
5 delivery?

6 MR. TUCKER: Three hours?

7 MR. NOVAK: Uh-huh.

8 THE WITNESS: As I recall, there was a  
9 dehiscence of the uterus. There were problems in the  
10 delivery. If I understand the question, then I would say  
11 that there was a period of acute hypoxic damage within the  
12 delivery of Jordan.

13 Q Okay. So sometime during the delivery of  
14 Jordan, without pinning it down to time, would it be fair  
15 to state that there was a major acute insult?

16 A There was what I would consider to be an  
17 insult. I am unclear without having the benefit of the  
18 perinatologist giving me an opinion that it necessarily was  
19 major unless I understand from you or the perinatologist  
20 what is meant by major.

21 Q Let me take the word major out and use the  
22 words acute insult. Would it be fair to state that what  
23 you had here then was an acute insult superimposed upon, in  
24 your opinion, was some preexisting long standing chronic  
25 hypoxia?

1           A           I have stated that in the last two to three  
2 answers. There was, in my opinion, in Jordan a period of  
3 acute hypoxia superimposed upon the preceding long standing  
4 hypoxic damage.

5           Q           Now, you can have chronic hypoxia in utero,  
6 but it doesn't necessarily have to be clinically  
7 significant to the fetus; isn't that correct?

8                       MR. TUCKER: Objection.

9                       MR. NOVAK: Why did you object to that?  
10 That was a good question.

11                      MR. TUCKER: Now you can have chronic  
12 hypoxia?

13                      MR. NOVAK: I'll take the now --

14           Q           (By Mr. Novak) Can you have chronic hypoxia  
15 in utero and not have anything clinically significant to  
16 the fetus?

17                      How is that? Is that better?

18           A           Actually, in my opinion, that is an error  
19 which probably is best clarified by the explanation to you  
20 of a concensus that 90 percent of cerebral palsy and mental  
21 retardation damage, most probably rather than more probably  
22 than not, results from chronic hypoxia that is clinically  
23 not recognized by the attending physicians.

24           Q           Doctor, let me ask you: Do you remember  
25 ever telling anyone under oath that one can have a chronic

1 hypoxia in utero, and such may not be clinically  
2 significant to the fetus, and your answer was yes? Do you  
3 remember anything like that?

4 MR. TUCKER: Can you show him his --

5 MR. NOVAK: I am just asking if he  
6 remembers. That is my understanding of the rule.

7 MR. TUCKER: My understanding of the rule is  
8 that he is entitled to see the statement that you are  
9 confronting him with. My understanding of the rule and so  
10 is yours is that he is entitled to see the statement.

11 MR. NOVAK: You are giving me more credit in  
12 being a good lawyer than it is worth, I think.

13 THE WITNESS: Let me be sure that you are  
14 not misunderstanding; okay?

15 MR. NOVAK: Doctor, I don't misunderstand.

16 THE WITNESS: That is not true because I  
17 think when you will be introspective and read earlier parts  
18 of this deposition that you -- because you are not a  
19 pathologist, occasionally misunderstand the intent of what  
20 has been said.

21 Now, what I am saying to you is that hypoxia  
22 can produce damage. I have defined three broad  
23 pathogenetic problems. If you would say to me, "Doctor, is  
24 it possible that one can have chronic hypoxia without  
25 affliction of the associated newborn", then the answer is

1 of course that is true.

2 Q That was my question.

3 A But, let me finish, The question is the  
4 matter of degree. And it is so gracious of you that  
5 earlier in this deposition, if the court reporter was  
6 following it, that you complimented me that no one is going  
7 to trap me on being taken out of context, and you're not.  
8 So if you focus the question, I will give you a brief to  
9 the point answer.

10 Q I have a hard time focusing because I am  
11 relatively simple, so we understand each other --

12 A If you focus the question, then I can be  
13 much more brief in my answer. Otherwise, I have to explain  
14 to you exactly what I mean, and what I probably meant in the  
15 item that you read from an earlier deposition.

16 Q If a fetus has chronic long standing hypoxia  
17 and you have superimposed on it an acute event of hypoxia,  
18 an acute insult, would it be fair to state that that would  
19 lead to irreversible brain injury?

20 MR. TUCKER: Objection.

21 THE WITNESS: Quite the opposite. I can't  
22 quote them for you, but I know I have said on several  
23 depositions quite the opposite, that chronic hypoxia has a  
24 protective effect against overwhelming multi-system acute  
25 cardiovascular collapse and organ injury. It has in

1 essence a protective effect in the same way that people who  
2 live at high altitude and who would experience a crisis in  
3 an airplane with lack of oxygen supply will compensate to  
4 that massive physiological alteration much better than  
5 somebody who lives in Cleveland on sea level.

6 Q (By Mr. Novak) Fetuses can adapt to chronic  
7 hypoxia because it is just like taking somebody to the  
8 Andes, they get used to the air; right?

9 A Yes. In the Andes, they have a  
10 significantly increased risk of death from fetal hypoxia.  
11 So my point is hypoxia is a matter of degree, and it can  
12 kill. But depending upon the evolution of the hypoxia and  
13 the adaptation of the fetus, it may kill or it may enable  
14 that fetus to sustain events such as the tragedy of Jordan.

15 Q Just so I understand in Jordon's case, you  
16 believe there was a chronic long standing hypoxia, and  
17 superimposed on that was an acute insult?

18 A I have not the slightest doubt about that  
19 whatsoever.

20 Q Okay. Now, in the materials that you  
21 reviewed, you indicated that you reviewed St. Luke's  
22 records. Do you know what records at Saint Luke's that you  
23 reviewed?

24 A Well, I provided extracts which you have  
25 read already. If I failed to identify them, I apologize.

1 I have here the records. And since Mr. Tucker provided you  
2 with our correspondence, you will have the entire  
3 itemization of what I have reviewed.

4 MR. NOVAK: It is not in these.

5 THE WITNESS: What I am saying is the only  
6 thing that I have reviewed by way of clinical information  
7 is what I brought with me and what has been forwarded.

8 MR. NOVAK: Let me try to make it a Little  
9 easier.

10 Q (By Mr. Novak) Did you ever see Jordon's  
11 brother's records?

12 A I don't believe that I have ever seen  
13 Jordon's brother's records.

14 MR. TUCKER: I take it back.

15 MR. WILLIAM J. TUCKER: I don't see it. Is  
16 it in there?

17 MR. TUCKER: There is in the notebook that I  
18 sent to him, which is in my correspondence in which you had  
19 a letter which says labor and delivery records from St.  
20 Luke's.

21 MR. WILLIAM J. TUCKER: I apologize.

22 MR. TUCKER: You misstated something on the  
23 record.

24 MR. WILLIAM J. TUCKER: I said I didn't see  
25 it in there. I didn't see it in there. Is that a

1 misstatement if I didn't see it in there; Bob? Come on,  
2 Bobby.

3 MR. TUCKER: Excuse me?

4 MR. WILLIAM J. TUCKER: I said come on,

5 MR. TUCKER: Bobby?

6 MR. WILLIAM J. TUCKER: Bob, whatever.

7 THE WITNESS: All I can say is that the only  
8 medical records that I have used that I felt were important  
9 to my considerations were what Mr. Tucker sent me. And I,  
10 in essence edited, meaning that I threw out and destroyed a  
11 bunch of them without using the items other than what I  
12 extracted.

13 Q (By Mr. Novak) You know, in your conceptual  
14 approach article, there is a statement here that says in  
15 referring to Fox, you then said this statement does not  
16 recognize that normal full term placentas never have  
17 readily identifiable nucleated red blood cells. Okay. Do  
18 you remember that statement you made in there?

19 A Sure.

20 Q Okay. So obviously, a normal baby shouldn't  
21 have any nucleated red blood cells in its placental, nor  
22 should he have any in his blood; should he?

23 A That is not true. The statement that I  
24 made, again, I want to make it clear with you that you take  
25 the words literally. I said they never have readily



1    identifiable. Obviously, they are there. But if you will  
2    look at the data of Green and Mimouni just taking the  
3    postnatal blood of the babies, the 50 percentile term is  
4    zero. That doesn't mean to say that the technologist  
5    wouldn't be able to find a nucleated red blood cell. It  
6    just means that it is very, very difficult to find them.

7            Q            Well, I guess so I understand, full term  
8    baby, it would be very rare to find a nucleated red blood  
9    cells either in the placenta or in the baby's blood  
10   immediately after delivery if you have a normal baby;  
11   right?

12           A            That is true. What I am saying is one would  
13   have to count a very, very large number of cells and  
14   examine them with the eye to find a nucleated red blood  
15   cell. They are there, but they are so unusual that it is,  
16   in essence, a real effort to find them.

17           Q            Since there is at least an 85 percent  
18   concordance with the placenta nucleated red blood cells and  
19   the blood of the baby, I mean you would agree with the  
20   concept that if we find nucleated red blood cells in the  
21   placenta, we should find them in the blood; right?

22           A            Well, I have to caution you. The 85 percent  
23   term, meaning terminology, relates to the baby at term. It  
24   does not relate to being able to quantify precise numbers.  
25   Do you see what I am getting at?

1           Q           I understand that, Doctor. But let's say in  
2 this case, in Jordon's cases, there were nucleated red  
3 blood cells found in his blood; right?

4           A           In Jordon's case, they were blatantly  
5 obviously in large numbers to the point that if you look  
6 back in my original description, okay, in my original  
7 description, I believe I used language such as quote, a  
8 very large population.

9           Q           Let me ask you: The percentage rate in his  
10 blood was 69 percent; is that right?

11                   MR. TUCKER: No.

12                   THE WITNESS: No. You see that is not true.  
13 Correct me if I am wrong. If you go to the facts, you will  
14 find that there was 69 for every one hundred blood cells  
15 that were present.

16           Q           (By Mr. Novak) Right.

17           A           That is why it is wrong in the pure sense,  
18 and this was Green and Mimouni's point, to say 69, or  
19 alternatively 89 or 49, unless you make it very clear what  
20 the number of white cells were in the per liter volume --

21           Q           They are talking about 69 per 100 white  
22 blood cells --

23           A           At a time when the white cells were, in  
24 fact, very large. The white cell population was very  
25 large. So that what they are really saying is there was

1 16.9 times ten to the ninth power per liter, which is  
2 almost 17 times the 90th percentile of sick babies in sick  
3 baby nurseries.

4 17 times the 90th percentile is what Jordon  
5 had literally one and a half hours after delivery,

6 Q Did you ever try to find out from Mr. Tucker  
7 what his brother Taylor's nucleated red blood cell count  
8 was?

9 A That question amazes me. I certainly -- I  
10 certainly did not do that. If you are implying some  
11 sort --

12 Q I am not implying anything, Doctor. I am  
13 just asking if you ever --

14 A Some sort of reason for me to do that, I am  
15 mystified. Why would I do that?

16 Q Wouldn't it be interesting to know if his  
17 brother Taylor had any nucleated red blood cells either in  
18 the placenta or in his blood?

19 A No. I would be suspicious that that was  
20 causing an unnecessary amount of work to produce an  
21 inflated bill for no-good reason. I mean, it would take  
22 his time, it would take my time. It would just be -- to me  
23 to be totally irrelevant.

24 Q Would you be interested in whether or not  
25 since Mr. Tucker talked to you for a couple of hours

1 regarding Dr. Kaplan's deposition, as to whether or not  
2 Taylor might have ABO incompatibility?

3 MR. TUCKER: Objection to the form of the  
4 question.

5 THE WITNESS: It would be of absolutely no  
6 interest to me whatsoever because ABO incompatibility, in  
7 my opinion, is absolutely not the reason for this massive  
8 population of nucleated red cells either in the placenta or  
9 in the blood at one hour and 32 minutes postnatal life.

10 Q (By Mr. Novak) If Taylor had nucleated red  
11 blood cells and if he had ABO incompatibility, would it be  
12 fair to state that the logical extension of that would be  
13 that Jordan would have nucleated red blood cells and ABO  
14 incompatibility given the fact of his mother's blood type?

15 MR. TUCKER: I'm going to object to the  
16 question. You haven't given him all the facts for Taylor's  
17 delivery.

18 MR. NOVAK: I am asking him to assume some  
19 facts. I am assuming. This is a hypothetical question.

20 THE WITNESS: Let me accept the hypothesis.  
21 Let me get right to the bull's eye. The issue here of the  
22 ABO, whether or not Taylor had ABO, is totally irrelevant  
23 because the foreign protein of Taylor and/or Jordan or  
24 Jordan and/or Taylor just does not produce enough antibody  
25 in the mother to produce massive hemolysis in the baby.

1                   And this is not just extremely well-known  
2   from my personal experience of 25 or more years, but  
3   exceedingly well-known in the very, very few papers that  
4   you will find on the subject, if you do a literature  
5   search.

6                   And since I believe strongly in the concept  
7   of discovery deposition, you know, as to where is a witness  
8   going to come from, I have even provided to you, in my  
9   opinion, one of the extremely few scholarly papers that  
10   have been written to the subject and then other explanation  
11   as to why it doesn't make any sense to say that ABO would  
12   be a significant part of this case relative to the massive  
13   population of nucleated red blood cells.

14                  MR. TUCKER: Relative to your hypothetical,  
15   Mr. Novak, I think the doctor is entitled to know that with  
16   Taylor's birth, there was chorioamnionitis as well as  
17   funicitis in that pathology report to the extent that that  
18   bears upon your, quote, hypothetical question about Taylor,  
19   the nucleated red blood cells and incompatibility.

20                  MR. NOVAK: You are reading from the  
21   placenta; is that right?

22                  MR. TUCKER: I am reading from the records  
23   that you are apparently asking him about.

24                  MR. NOVAK: I am asking hypothetical  
25   questions.

1           Q           (By Mr. Novak) I guess my question for you,  
2 Doctor --

3                   MR. TUCKER: Well, you are asking  
4 hypothetical questions about Taylor which don't bear any  
5 relationship to Taylor's circumstances.

6                   MR. NOVAK: I don't know if they do or  
7 don't. That is why I am trying to find this out. I don't  
8 want to come back, if we don't have to.

9           Q           (By Mr. Novak) If Taylor had nucleated red  
10 blood cells, and if he was ABO incompatible, do you  
11 disagree with the notion then that Jordon should also have  
12 nucleated red blood cells and also be ABO incompatible; is  
13 that right?

14                  MR. TUCKER: Object to that because you are  
15 assuming if Taylor had nucleated red blood cells, that they  
16 were due to ABO incompatibility. Unless this doctor has  
17 the circumstances and facts of that placental evaluation  
18 before him, he can't make that determination.

19                  MR. NOVAK: I am speaking strictly of the  
20 blood, the fetal blood; okay? Let's limit ourselves to  
21 that. Can we do that? Forget the placenta. I want you to  
22 assume --

23                  THE WITNESS: Excuse me. Fetal blood --

24           Q           (By Mr. Novak) Can you answer my question,  
25 please?

1           A           Provided if it makes sense.

2           Q           It makes sense to me.  Et doesn't make sense  
3 to you?

4                   MR. TUCKER:  That is not the issue.  It has  
5 got to make sense --

6                   MR. NOVAK:  He doesn't want to answer my  
7 question.  That is what it is.

8                   MR. TUCKER:  Just one second.

9                   THE WITNESS:  May I correct --

10                  MR. NOVAK:  I am not yelling.  He is  
11 laughing at me.  I don't appreciate it.

12                  THE WITNESS:  Because you are not giving me  
13 the opportunity to explain the falacy of your point.

14                  MR. NOVAK;  Doctor, I'm not going to let  
15 this deposition be your soap box; okay?  You are going to  
16 answer my questions the way I put them to you.

17                  MR. TUCKER:  Stop yelling at him.

18                  MR. NOVAK:  You stop yelling at me; got it,  
19 Buddy?

20                  THE WITNESS:  Let's all be friends and ask  
21 the question again.  Then I will answer it.

22           Q           (By Mr. Novak)  Very simple question.

23           A           Right.

24           Q           If hypothetically Taylor is diagnosed as ABO  
25 incompatible and has nucleated red blood cells in his

1 blood, would it be fair to assume then -- I'm going to take  
2 the word assume out.

3 Would it be fair to state that one should  
4 expect that Jordan should also have nucleated red blood  
5 cells in his blood and also should be ABO incompatible?

6 MR. TUCKER: I'll object to the question,  
7 assumes facts which aren't true to begin with.

8 MR. NOVAK: I'm asking a hypothetical  
9 question.

10 THE WITNESS: It would not be fair to say  
11 that. That is the same sort of assumption style thinking  
12 that can get you into big trouble. What I have said is I  
13 accept opinion that some of the nucleated red cells in  
14 Jordan may have been present because of ABO  
15 incompatibility.

16 The issue is not the presence of the  
17 nucleated red blood cells. The issue is the massive  
18 presence of nucleated red blood cells. That is the issue,  
19 no if's, no but's, no maybe's, the massive presence.

20 What I am saying is one never gets this  
21 number in the placenta. My objection to your earlier point  
22 was you said let's talk about the fetal blood. Then you  
23 said let's forget the placenta. For crying outloud, fetal  
24 blood is in that placenta.

25 It has an incredible population. 16.9 was



1 at one hour and 32 minutes. You can bet you it was close  
2 enough to that at the time of birth.

3 6 So, you would agree with me --

4 A I mean 16.9 times ten to the ninth power,  
5 millions upon millions of nucleated red blood cells. You  
6 will never get that with ABO incompatibility.

7 Q So, you would agree with the statement,  
8 would you not, that some of his nucleated red blood cells,  
9 meaning Jordon's, may be attributable to ABO  
10 incompatibility?

11 A In my experience, and I believe the  
12 literature supports this opinion, a very small component  
13 thereof.

14 Q Are you familiar with the percentages of  
15 people of African American descent and whether or not they  
16 have greater presence of nucleated red blood cells and ABO  
17 incompatibility as opposed to Caucasians?

18 MR. TUCKER: Objection to the form of the  
19 question. There are two questions there. You asked about  
20 ABO incompatibility and people of African American descent  
21 and then nucleated red blood cells and people of African  
22 American descent.

23 MR. NOVAK: Let me break it down.

24 Q (By Mr. Novak) Are you familiar with  
25 studies demonstrating that African Americans, there is a

1 greater percentage of African Americans versus Caucasians  
2 who have children with ABO incompatibility; are you aware  
3 of that?

4 A I brought with me, as a matter of fact, some  
5 figures on differences between races. I am aware of  
6 differences. I am not aware of any study and in truth, you  
7 know, in the matter of discovery, I brought that with me.

8 I also brought with me papers from other  
9 authority which have totally different figures.

10 I am not aware of any authority who has ever  
11 done a study that has corrected for confounding influences.  
12 My sense is that explains why the very exhibits that I  
13 brought with me have discordant results between one  
14 authority and another. ,

15 Q Let me ask you this: If hypothetically  
16 Jordon's brother, Taylor, had nucleated red blood cells in  
17 his blood and Taylor is normal now, when he was discharged  
18 from the hospital, let's assume he was normal. He is  
19 normal now. Can you attribute some of that to chronic  
20 hypoxia?

21 MR. TUCKER: Objection to the form of the  
22 question, assumes facts which aren't true.

23 MR. NOVAK: Hypothetically.

24 MR. TUCKER: It assumes facts that aren't  
25 true. Go ahead.

1                   THE WITNESS: You are asking me to answer  
2     that if I was hit by a General Motors vehicle, it would be  
3     irrelevant as to whether it was the smallest Chevette on  
4     the market going at ten miles an hour or whether it was a  
5     ten ton truck going at 80 miles an hour with full impact.

6                   In other words, the question is impossible  
7     to answer in the manner in which you framed it. The issue  
8     here is simply that Jordan had 16.9 times ten to the ninth  
9     power per liter. Now, I will tell you again, when I looked  
10    at the placenta, I had no doubt that it would be a very  
11    large postnatal count.

12                  I had no doubt the first thing that got Mr.  
13    Tucker fired up was I want to tell you, this has an  
14    enormous population. There had to have been -- there had  
15    to have been either, you know, long standing chronic  
16    hypoxia or massive acute fetal blood loss.

17                Q            (By Mr. Novak) He told you that?

18                A            No, I told him.

19                Q            But, you just said he got fired up.

20                A            Look, I think you are not following the  
21    sequence.

22                Q            No, I'm following. You said he got all  
23    fired up.

24                A            Meaning excited because clearly that would  
25    help his case because he would have known there was no

1 massive acute fetal blood loss, which means that the other,  
2 the ultimate differential diagnosis had to have been true  
3 on the basis not of the nucleated red cells.

4 I mean, we are not talking here, you know,  
5 nucleated red cells. We are talking mega nucleated red  
6 cells. Let me tell you something, this is a massive  
7 population, 16.9 times ten to the ninth power.

8 Q Would it be fair to state -- I think you  
9 have answered this before. If Taylor has nucleated red  
10 blood cells in his blood --

11 MR. TUCKER: Today?

12 MR. NOVAK: No, when he was born.

13 MR. TUCKER: He didn't.

14 MR. NOVAK: If he did.

15 MR. TUCKER: But, you are making something  
16 up. It is not true.

17 MR. NOVAK: No, no. If he did.

18 MR. TUCKER: Well, you know he didn't, Bill.  
19 YOU can't make up stuff. There are no nucleated red blood  
20 cell counts for Taylor.

21 MR. NOVAK: Do you have his records?

22 MR. TUCKER: I sure do.

23 MR. NOVAK: Let me see.

24 MR. TUCKER: You want to see them?

25 MR. NOVAK: Yeah.

1 MR. TUCKER: So, you will then put on the  
2 record that you are making something up?

3 MR. NOVAK: No, I just like to see them.  
4 I'm just curious.

5 MR. TUCKER: I'll give you my copy of the  
6 records.

7 MR. NOVAK: Okay. How did you get these  
8 records, by the way?

9 MR. TUCKER: I subpoenaed them.

10 MR. NOVAK: You never gave me a copy.

11 MR. TUCKER: That is another issue for  
12 another day.

13 MR. NOVAK: No, I mean, did you ever send me  
14 a copy of these?

15 MR. TUCKER: I can't answer that question.

16 MR. NOVAK: I can tell you that you did not.  
17 Let me ask you a question.

18 MR. TUCKER: You don't have them?

19 MR. NOVAK: You never sent me these.

20 MR. TUCKER: I didn't ask that; did I, Bill?

21 MR. NOVAK: No, you never sent me these.

22 MR. TUCKER: I didn't ask you that. Do you  
23 have them?

24 MR. NOVAK: You never sent me these. You  
25 never did; did you?

1 MR. TUCKER: I can't answer that question.  
2 I don't **have** my file.

3 MR. NOVAK: Sure you can. If you looked at  
4 your file, you could tell me.

5 MR. TUCKER: I'm **sure** I will look at my  
6 file. I will determine how I obtained them. I either  
7 obtained them by subpoena or by --

8 MR. NOVAK: I'm sorry. I just want to see  
9 the rest of Jordon's records. I'm sorry.

10 MR. TUCKER: You want to see Jordon's  
11 records?

12 MR. NOVAK: I'm sorry, Taylor's. That is  
13 all you have?

14 MR. TUCKER: Yeah.

15 MR. NOVAK: Okay. Fine.

16 MR. TUCKER: I have the Saint Luke's  
17 records. Maybe this will tell me how I got these.

18 MR. NOVAK: All right. I'm sorry. I won't  
19 touch your stuff.

20 MR. TUCKER: You don't have these records?  
21 Why don't you put on the record --

22 MR. NOVAK: I don't have your set of  
23 records, I do not.

24 MR. TUCKER: I didn't ask that; did I, Bill?

25 MR. NOVAK: Let the record show that Mr.

1 Tucker never provided me with a copy of the records that he  
2 got pursuant to subpoena. In fact, I didn't even know he  
3 subpoenaed them.

4 MR. TUCKER: I will tell you candidly, I  
5 don't know whether I subpoenaed them or got them by  
6 authorization. I believe I had an authorization at one  
7 point in this case as well.

8 MR. NOVAK: Your duty, and I gave you the  
9 authorizations on the notion you would provide me with  
10 copies of everything you got. You obviously didn't.

11 MR. TUCKER: As I said, I can't answer that  
12 question, but it is all kind of irrelevant.

13 MR. NOVAK: Oh, really?

14 MR. TUCKER: Because I know you got them.

15 MR. NOVAK: Oh, really? How do you know I  
16 got them?

17 MR. TUCKER: I don't know.

18 MR. NOVAK: How do you know I got them?

19 MR. TUCKER: We will look into that.

20 MR. NOVAK: How do you know I got them? How  
21 do you know I got them?

22 MR. TUCKER: Because you do.

23 MR. NOVAK: How do you know I have them?  
24 Did someone from Saint Luke's call you?

25 MR. TUCKER: Absolutely not.

1                   MR. NOVAK: Because I know you people  
2 represent Saint Luke's. They wouldn't do that, though;  
3 would they?

4                   MR. TUCKER: No, they wouldn't.

5                   MR. NOVAK: Okay. So you think I have the  
6 records because you gave me a copy?

7                   MR. TUCKER: No, I believe otherwise you  
8 wouldn't be asking all these questions. You are making  
9 stuff up though, which I don't understand.

10                Q            (By Mr. Novak) Let me ask you something,  
11 Doctor. I want to go to your report.

12                MR. TUCKER: By the way, Mr. Novak, can we  
13 have on the record there are no blood counts of nucleated  
14 red blood cells for Taylor?

15                MR. NOVAK: No. I am not going to do that.

16                MR. TUCKER: You're not going to --

17                MR. NOVAK: I'm not going to agree to  
18 anything with you. Let me tell you something. You haven't  
19 been square with me; you like that? Because when a guy  
20 tells -- takes an authorization from me and doesn't give me  
21 a copy of the records, you know what? That stinks. It  
22 smells real bad in here, Mr. Tucker; okay?

23                Q            (By Mr. Novak) Doctor, would you please  
24 turn to your reports.

25                A            Which one would you like?



1 MR. NOVAK: Let's just say that I don't  
2 entirely trust you. Do you like that?

3 MR. TUCKER: Your personal comments mean  
4 nothing to me.

5 MR. NOVAK: I know that. That is a sad  
6 commentary because they should mean something to you  
7 because I would be very upset if someone said to me that  
8 they didn't trust me; okay?

9 MR. TUCKER: I take the origin of the  
10 comment because I know you have the Saint Luke records.  
11 You know you have them too.

12 MR. NOVAK: How do you know I have them?

13 MR. TUCKER: Why don't you say --

14 MR. NOVAK: Why don't you put on the record  
15 that I know I have them because somebody told me.

16 MR. TUCKER: Why don't you say --

17 MR. NOVAK: Then you don't know; do you?

18 MR. TUCKER: Why don't you say on the record  
19 you have them, Bill.

20 MR. NOVAK: I'm not going to do anything.

21 MR. TUCKER: You see, that is my point.

22 Q (By Mr. Novak) Doctor, let's get to your  
23 first --

24 MR. TUCKER: I consider the origin of your  
25 comments.

1                   MR. NOVAK: Good. At least I haven't said  
2 anything **that** wasn't a fact.

3           Q           **(By Mr. Novak)** Let's get to the report,  
4 Doctor.

5                   MR. NOVAK: You think that is real funny.  
6 It is a sad ~~commentary~~, Mr. Tucker.

7           Q           **(By Mr. Novak)** The amniotic epithelium in  
8 your first report refers to surface; does it not?

9                   MR. TUCKER: Objection.

10                   **THE WITNESS:** Correct.

11           Q           **(By Mr. Novak)** Now, by the way, I want to  
12 get to the umbilical cord before we talk about placental  
13 membrane, Slide A. The Wharton's jelly has no obvious  
14 meconium laid microphage; isn't that right?

15           A           None that I could appreciate.

16           Q           You remember that article you wrote in the  
17 medical-legal imperative?

18           A           I don't remember exactly what I said, but  
19 you tell me what allegedly I said. I will tell you if it  
20 is probable or not that I said it.

21           Q           By the way, there was also no necrosis of  
22 the vascular media; is that right?

23           A           That is true.

24           Q           Now, on Page 694 of that article, do you  
25 remember saying that when meconium is in the fetal amniotic

1    sac for three or four more hours, it is simultaneously  
2    diffusing into the Wharton's jelly of the umbilical cord  
3    **and** into the placental sub-amniotic connective tissue.  
4    Necrosis of the umbilical cord vessels and of the vessels  
5    across the placental surface eventually ensues. When  
6    meconium has been present for many hours, the vascular  
7    damage is so severe that it is readily recognizable on  
8    hemoto --

9           A           I understand what you are saying.

10          Q           -- stain slides. I guess my question is:  
11    You talk about three or more hours, but the fact of the  
12    matter is you don't have any meconium in Wharton's jelly;  
13    is that right, in this case?

14          A           I did not see meconium laden microphages.  
15    That is why I said in earlier testimony I want to be very  
16    sure that people understand the difference between what I  
17    mean by pathophysiological processes and morphological or  
18    histopathologic functions.

19                       So when I speak about diffusion through  
20    tissue, that is enormously different in its meaning from  
21    what does it mean to see cells at particular locations of  
22    particular parts of the placenta or of the bag of waters or  
23    of the Wharton's jelly in the umbilical cord. They are two  
24    different considerations.

25          a           Doctor, the fact of the matter is that if

1     there is no meconium that you saw in Wharton's jelly, it is  
2     an indication ~~that this is~~ not an instance where meconium  
3     ~~has been present~~ in the amniotic sac for more than three  
4     hours; isn't that correct?

5                     MR. TUCKER: That is not what he said.

6             Q             (By Mr. Novak) That is my question.

7             A             No, that is not a valid statement for you to  
8     say that. I don't believe that it is reasonable to say  
9     that just because one can't see meconium laden microphages,  
10    depending upon the quality of the slide, the thickness of  
11    the slide, the staining of the slide, the triage and  
12    processing of the slide, the age of the slide, the amount  
13    of light that has been present in a room which has a photo  
14    therapy effect on pigment of slides.

15                    There are so many variables that all that  
16    you can say is that if you see deeply situated cells with  
17    neconium in them, that you can make certain considerations.  
18    But, the absence of those features and the obvious presence  
19    at other locations does not deny pathophysiological events  
20    occurring at the two different sites, even though you only  
21    see the evidence at one of the two sites.

22            Q            Doctor, the microscopic description which  
23    you have here for Slide A, we are talking about light  
24    microscopic; is that right?

25            A            That is correct.

1           Q           Okay. In your other article entitled the  
2 medical-legal imperative placental and epitheliology -- I  
3 can never say the word, but you know what I am talking  
4 about.

5           A           I understand.

6           Q           Under the heading of chronic meconium  
7 staining, don't you say light microscopic examination then  
8 shows numerous deeply located meconium laden microphages  
9 across the placental chorion and within the umbilical cord.  
10 You did say that in your article; did you not?

11          A           That's right. And you are not really  
12 listening --

13          Q           But, Doctor --

14                   MR. TUCKER: Let him finish his answer.

15                   THE WITNESS: You are really not listening.  
16 I answered the question already. You have a whole bunch of  
17 confounding influences that if court reporter would be kind  
18 enough to read back my answer --

19          Q           Which one?

20          A           -- would give you the answer.

21          Q           Which one?

22          A           Would you like to read that back, what I  
23 said?

24                   THE REPORTER: You're talking about the --

25                   THE WITNESS: I gave a long answer because I

1 anticipated what Mr. Novak's confusion would be.

2 MR. NOVAK: I don't think I am confused,  
3 Doctor.

4 THE WITNESS: Well, Let's see if I can  
5 respond in a way --

6 MR. TUCKER: Have him ask a question.

7 THE WITNESS: All right.

8 Q (By Mr. Novak) Would it be fair to state  
9 that in the microscopic description, which you have here,  
10 there were no meconium laden microphages within the  
11 umbilical cord; is that a fair statement?

12 A I have answered that already. I could not  
13 appreciate, I could not see them. That has been answered  
14 already.

15 Q Would you agree with me that in the  
16 Literature which you have written, chronic meconium greater  
17 than 24 hours, you should see meconium laden microphages  
18 deep within the umbilical cord; should you not?

19 MR. TUCKER: Objection, he has answered.

20 THE WITNESS: Okay.

21 MR. TUCKER: You can answer again.

22 THE WITNESS: No. Actually, I want to be  
23 fair to -- no, I appreciate this very, very much. I really  
24 do, because I want to be very fair to Mr. Novak and answer  
25 this in a way I hope he will feel it is honest because

1 it is very honest, and Dr. Kaplan will know this is very  
2 honest; okay? Let me be sure there is no misunderstanding  
3 here.

4 I told you earlier an that when I use terms  
5 it relates to the clinicopathologic correlation of  
6 intrapartum or internatal events being acute less than 24  
7 hours; okay? And more than 24 hours as being a  
8 pathogenesis of prenatal. I want to be absolutely fair to  
9 you. I hope that you can be fair to me by listening to me  
10 very, very carefully; okay? That was the context in which  
11 I answered the question. I wrote it down. I stand by it  
12 now.

13 Traditionally, most people, when they speak  
14 about an acute event of meconium staining, are talking  
15 about the slimy green stuff that is on the surface of the  
16 placenta; okay? And there is a consensus that that slimy  
17 green can even wash off.

18 And if there is staining, it is very, very  
19 superficial; you see? And the point is when you see it in  
20 the deep part of the surface there next to the chorion, it  
21 is three or more hours. Then by convention, I do believe  
22 that Dr. Cindy Kaplan as well as Jeff Altshuler would view  
23 that then as the concept of developing beyond chronic.

24 And so then you start to change from green  
25 to green-brown. So in the context of quote end quote acute

1 versus chronic meconium staining in everything I have  
2 written, and I do believe Dr. Kaplan would have phoned this  
3 to you. I do not mean that you can only have chronic  
4 meconium staining if the meconium was discharged 24 hours  
5 and one minute prior to delivery.

6 Now, that is the difference between that if  
7 I would talk about legal things, I wouldn't understand what  
8 on earth you are talking about because I am not an  
9 attorney. I am trying to clarify that I do believe Dr.  
10 Kaplan would understand exactly what I mean.

11 Q I want to be very specific then. In your  
12 article, the medical-legal imperative article, when you  
13 discuss meconium for three or more hours; okay?

14 A Okay. ,

15 Q That three hours meconium is the difference  
16 between what one would call acute versus long standing  
17 meconium; right?

18 A Acute versus chronic. In other words, if it  
19 has been there for three hours and one minute, now you are  
20 talking chronic.

21 Q Now we understand we are on the three  
22 hour --

23 A I apologize because, you know, I don't write  
24 these articles, believe it, for lawyers. I really don't.

25 Q So I guess my question then is: Since there



1 is no meconium laden microphages in the umbilical cord,  
2 okay -- just follow my question, would it be fair to state  
3 then that we are talking about something that is occurring  
4 less than three hours?

5 MR. TUCKER: Objection. That is not what he  
6 said.

7 THE WITNESS: No. Let's get right to it in  
8 the purpose of discovery. It would be my opinion, okay,  
9 irrespective of how much, we will use the term in  
10 potations, phototherapy there has been on the glass  
11 slide -- do you understand what I mean by this? If not,  
12 I'll explain.

13 Q (By Mr. Novak) Keep going.

14 A If you put a glass slide on a table, and  
15 there is a lot of light on it for a period of time, the  
16 pigment will fade; okay? Setting all of that sort of stuff  
17 aside, setting all of those confounding variables aside,  
18 the thickness of the tissue, the quality of the hemotoxin  
19 and die and everything, I would be prepared to agree with  
20 you and Dr. Kaplan that if I cannot easily see meconium  
21 microphages anywhere there, that the fetus must have  
22 defecated less than 24 hours prior to delivery.

23 I would believe that it is more probable  
24 than that just looking at that one issue alone. Now I  
25 don't think when you come to a final opinion, you can ever

1 go by just one criterion alone. But, if I were to use that  
2 and only that criterion, that criterion exclusively would  
3 indicate to me that the absence of appreciable meconium  
4 cells in the cord would mean that it is more probable than  
5 not from that criterion alone that the fetus had defecated  
6 less than 24 hours prior to delivery.

7 Q I want to go one step further. My question  
8 was on three hours since we had used three hours as the  
9 time for acute versus chronic with respect to meconium.  
10 Would it be fair to state then that since the Wharton's  
11 jelly did not have obvious meconium laden microphages and  
12 there was no necrosis of the vascular media, and there was  
13 no meconium laden microphages within the umbilical cord,  
14 that any meconium passage occurred less than three hours  
15 prior to delivery?

16 MR. TUCKER: Objection. He has answered  
17 that question.

18 MR. NOVAK: He didn't.

19 THE WITNESS: Let me -- I think I want to be  
20 fair to Mr. Novak here because I think he is asking a  
21 slightly different question in all fairness to him.

22 MR. NOVAK: Thank you.

23 THE WITNESS: In my opinion, you are asking  
24 would it be fair. I would say it would be grossly unfair  
25 because it has been my experience, okay, it has been my

1 experience that the reason it would be extremely unfair is  
2 this: In this particular specimen, there were a  
3 significant number of meconium laden microphages in the  
4 extraplacental membranes. Now, I'll stop if you like  
5 because you are reading something.

6 Q No, I am listening. I can do two things at  
7 once, believe me.

8 A In this particular specimen, I make the  
9 point that in Slide A, the extraplacental membranes have  
10 many meconium laden microphages, but there were numerically  
11 less of those microphages at deep locations sampled from  
12 the extraplacental membranes of Slide A.

13 Part of the reason that people should be  
14 very cautious about one observation made from one piece of  
15 tissue, for example, the umbilical cord, is that when you  
16 go to other sampling in Slide B, I put in bold font to draw  
17 attention to the fact that there were more meconium laden  
18 microphages deep in the tissue.

19 And based upon my experience, I would say  
20 that you are being very unfair to me in that earlier thing  
21 because -- let me finish, because in my experience, when I  
22 see meconium laden microphages in large number in both  
23 extraplacental membrane sections and in one of them  
24 including in deep locations and separately, separately that  
25 the first case has -- the first case that lacks the deep

1 microphages has degenerative epithelium with vacuoles, that  
2 particular part that has been sampled has been a repair  
3 area where **there** may not have been persistence of the  
4 pigment in **there** because it has been transported away from  
5 there.

6 To me, this whole picture represents easily  
7 as much as 12 hours' period of time from the event of  
8 defecation from the fetus.

9 Q Doctor, when you wrote these articles, you  
10 used the word "and", not "or". May I finish my question?

11 MR. TUCKER: I am sure he used the word  
12 "and" and "or".

13 MR. NOVAK: No, he used the word "and" and  
14 not "or"; okay?

15 MR. TUCKER: I don't know what you are  
16 talking about.

17 MR. NOVAK: I know you don't.

18 MR. WILLIAM TUCKER: Let him finish. That  
19 is fine.

20 MR. TUCKER: Why don't you show the  
21 doctor --

22 MR. NOVAK: I have read what I am talking  
23 about.

24 Q (By Mr. Novak) When you referred to three  
25 hours or more --

1 MR. TUCKER: Where does it say three hours  
2 here?

3 MR. NOVAK: In his article on placenta  
4 within medical-legal imperative on Page 694 archives  
5 pathology lab medicine.

6 THE WITNESS: You are looking at a different  
7 paper.

8 MR. NOVAK: You are looking at the wrong  
9 paper.

10 THE WITNESS: You know it helps if the  
11 witness has a chance to see --

12 MR. TUCKER: Give him a copy of it.

13 MR. NOVAK: Sure. Take a look.

14 THE WITNESS: Thank you.

15 Okay. That is why I told you in  
16 anticipation of your question from the outset, I said put  
17 it in block letters that there is a huge difference between  
18 pathophysiological activities and morphological features.  
19 If you take this sentence as you read it to me, the first  
20 sentence is talking about a diffusing process. Something  
21 dynamically is happening.

22 The soluble part of the meconium obviously  
23 not the particulate matter, you know, the soluble part is  
24 diffusing through. Then when I switch gears and talk about  
25 necrosis of the umbilical vessels, the common sense

1   implication is that the toxin in that soluble product has  
2   been there for a longer period of time if you have a  
3   histopathologic change such as necrosis.

4                   So there are two different concepts. One is  
5   pathophysiological, dynamic action of diffusion, and the  
6   other is tissue change. That is where you are becoming  
7   greatly confused.

8           Q           (By Mr. Novak) No. Do we have an agreement  
9   that when we talk about meconium, anything less than three  
10  hours is acute, anything more is chronic?

11          A           We have that understanding, yes.

12          Q           Okay. So let me get back to the article  
13  which Mr. Tucker has which is the one that came out of the  
14  volume. It is the other, medical-legal. Let me have that  
15  one back. If we talk about chronic meconium staining, this  
16  is the sentence that you wrote. It says: Do you have it  
17  there?

18                   The sentence says light microscopic  
19  examination then shows numerous deeply located meconium  
20  laden microphages across the placental chorion and within  
21  the umbilical cord.

22                   The fact of the matter is in this case, they  
23  are not within the umbilical cord; isn't that correct?

24          A           Now, you see, unfortunately, I really do  
25  believe you are taking me terribly out of context.

1           Q           No, Doctor, can you just answer my question?  
2   Are they in the cord or not? Is that that hard?

3                   MR. TUCKER: Let him finish.

4                   THE WITNESS: Now, look --

5                   MR. TUCKER: Just one second, Doctor.

6                   THE WITNESS: Yeah.

7                   MR. TUCKER: Let him either finish his  
8   answer --

9                   MR. NOVAK: Or what?

10                  MR. TUCKER: Stop arguing with him. Don't  
11   tell him is it that hard --

12                  THE WITNESS: Are you here to find out what  
13   the witness says or means, or are you here to try and  
14   manipulate by taking things out of context? Because I want  
15   the judge to know, and I mean it. I find this patently  
16   harassment because you have taken it totally out of  
17   context.

18                  MR. NOVAK: Doctor, I am reading exactly  
19   what it says here.

20                  MR. TUCKER: Just one second. Put a  
21   question to him.

22                  MR. NOVAK: I read his --

23                  MR. TUCKER: One sentence out of context.

24                  MR. NOVAK: I'll tell you what. May I read  
25   the entire paragraph so it is not taken out of context?

1 THE WITNESS: Read the --

2 MR. NOVAK: Read the whole paragraph. How  
3 is that? Can we read the whole paragraph?

4 MR. TUCKER: Put a question to him, Bill.

5 Q (By Mr. Novak) Let's read the whole  
6 paragraph because while we are at it, let's talk about  
7 developing a brown-green color. This placenta did not have  
8 any brown in it; did it?

9 A You are really taking this whole thing out  
10 of context. Read the paragraph; read the paragraph.

11 Q Let's go sentence by sentence. After  
12 meconium has been present across its surface for a couple  
13 of hours, a couple of hours, less than three --

14 A Okay.

15 Q -- a placenta develops a brown-green color;  
16 okay?

17 A Right.

18 Q Is it brown-green here?

19 A I would have to check, but I doubt that it  
20 is. I would have to check.

21 Q Okay. Light microscopic -- you want to  
22 make -- check to make sure?

23 A No, let me just make this point.

24 Q Go ahead.

25 A This is in the context of fresh specimens,



1    which are my materials and methods, as opposed to whether  
2    it has been triage formal and fixed and being kept for a  
3    day or more beforehand, this whole thing is in the context  
4    of color changes. So let me just have that on the record  
5    because we can go into that, and all of that stuff is in my  
6    publications and not just made out of the air, So let's  
7    read the next sentence --

8           Q       Let me ask you while you are at it. Bid you  
9    check to see what the triage was on this case?

10          A       The triage on this case, I did not check  
11    because it is impossible. It is impossible for me to know  
12    how many hours it sat at whatever temperature before they  
13    put it into the refrigerator. Let's just continue because  
14    the answer is let me have the records. I do not believe  
15    that it was a brown-green color, I will double check that.

16                 That is my understanding, that it was not a  
17    brown-green color. Now, the records say, even without  
18    clinical information, that it was received in saline. Any  
19    pathologist will tell you that it is exceptional to receive  
20    placentas in saline. That is going to radically alter  
21    factors right there.

22                 So you can't take me out of context in your  
23    first question where you were talking light microscopic and  
24    where the sentence immediately before it says the longer  
25    the period of time between meconium discharge and fetal

1 delivery, the more brown the placenta becomes.

2 Now, if it has been received in formalin or  
3 if it has been refrigerated in a particular way or kept at  
4 room temperature in a different way in formalin for a  
5 little bit and taken out and then left on the table, I  
6 can't speak to confounding influences,

7 Clearly in this case, the first words in the  
8 report say received in saline. That is all part of my  
9 emphasis to you earlier in a long answer, it depends upon  
10 variable and confounding influences.

11 But, I stand by what I wrote on Page 252 in  
12 the paper to which you referred and in the context of the  
13 present case.

14 Q Are you telling us then that the way that  
15 this placenta was prepared for purposes of examination  
16 would have an impact then on your findings?

17 MR. TUCKER: On what findings?

18 MR. NOVAK: Well, he indicated he was not  
19 happy it came in saline. It wasn't formalin.

20 Q (By Mr. Novak) I am a little concerned,  
21 Doctor. Are you telling me you are not real happy about  
22 the way this placenta was prepared?

23 MR. TUCKER: Objection to the form of the  
24 pestion. He never said he wasn't happy about anything.  
25 rhose are your words.

Q (By Mr. Novak) It is not consistent with  
2 your triage; is that right?

3 MR. TUCKER: Those are your words about him  
4 not being happy. Those are not his words. I object to the  
5 form of the question.

6 Q (By Mr. Novak) It is not consistent with  
7 your triage?

8 A Do I get a chance to tell you what the  
9 witness has as an opinion or not? I mean, is that my  
10 purpose here tonight is to tell you my opinion?

11 MR. TUCKER: No, just answer his questions.  
12 If he doesn't ask questions --

13 THE WITNESS: He is not giving me an  
14 opportunity.

15 Q (By Mr. Novak) I guess my question is this:  
16 Was this placenta, for purposes of your examination, was  
17 this prepared pursuant to your logistics of placental  
18 triage?

19 A No, it was different; and, therefore, I  
20 would have to be even more careful not to depend upon any  
21 single criteria.

22 Q Okay.

23 A I have told you, and it is in my reports,  
24 and you have read the reports already. In my opinion, it  
25 is more probable than not that meconium was present in that

1 fetal sac for at least 12 hours prior to delivery. We  
2 could have saved all of that time if I could have just had  
3 the opportunity to restate that I wrote it before, E meant  
4 it then, and I mean it now.

5 Q Given the fact that there is nothing in the  
6 cord, could be less than 12 hours; couldn't it?

7 MR. TUCKER: Objection to the form of the  
8 question.

9 THE WITNESS: Anything --

10 MR. NOVAK: Is that a funny question? I  
11 didn't think it was funny.

12 THE WITNESS: Anything is possible. I am  
13 just telling you that based upon the features of the  
14 erosive change and the vacuolated degenerative change in  
15 that first slide that I described, based upon the fact that  
16 there were meconium laden microphages in that same first  
17 slide --

18 Q Slide A?

19 A Slide A, the extraplacental membranes, I  
20 explained that confounding influences may explain why I  
21 didn't see them in that particular slide deep down. But, I  
22 told you that there were both acute necrotic changes, that  
23 is to say necrosis and degenerative changes with vacuoles.

24 I separately emphasized that there were more  
25 of the pigmented cells that were deep in Slide B as opposed

1 to Slide A; and that at the time when I made that final  
2 judgment, and let me tell you, I had it yellow highlighted,  
3 and that is the joy of having theae things, I probably  
4 factored that thing in along with all of these  
5 considerations to say it is more probable than not that it  
6 has been there €or 12 to 18.

7 Now, I can't precisely time meconium, so I  
8 would be a pompous ass if I would have said 12 to 14. The  
9 12 to 18 is simply to say that I don't really believe that  
10 it is anywhere near 24.

11 Q Possibly less than 12?

12 A Possibly, but unlikely €or the reasons  
13 given.

14 Q Now, in Slide A, when you talk about the  
15 necrosis and degenerative epithelium with vacuoles, that is  
16 on the surface; is it not?

17 A True.

18 Q You did not see any such cells in Slide A in  
19 deep locations?

20 A We have been through this five times.

21 Q You can either say --

22 A We did not.

23 MR. TUCKER: It says here there are  
24 numerically less cells at deep locations. Your question  
25 was he didn't see any cells in deep locations.

1           Q           (By Mr. Novak) Greater the numbers of cells  
2 at deep locations, the longer the period of time meconium  
3 passage from time of delivery; is that a fair statement?

4           A           No. You see that is the falacy before when  
5 you were assuming things because if the blood or any other  
6 means of resorption would have been different at that  
7 location, maybe there are all kind of considerations,  
8 including the thickness of the tissue at that location.

9                       I mean there are so many variables that I  
10 can't count the percentage that is likely to this and the  
11 percentage that is likely to that.

12          Q           None of the placental tissue you looked at  
13 had any meconium laden microphages in the decidua?

14          A           I don't recall seeing it in the decidua to  
15 be honest with you. I do not recall seeing it in the  
16 decidua.

17          Q           Now --

18          A           But since it becomes an issue now by the  
19 hypothesis maybe it is an issue to you, maybe I should go  
20 back and do some special stains and see if I can actually  
21 show that it is there too, but I didn't see it there.

22          a           In the slides, I am going to look at A, at  
23 3; okay? When you talk about a glutinated villi with  
24 numerically increased -- is it syncytial knots; is that the  
25 word? Is that how you say it?

1           A           It is.

2           Q           Okay. And when you talk about in Slide C of  
3 the villi being congested and there are focally prominent  
4 perivillous investment by fibrinoid material, you are  
5 talking about some ischemia there; aren't you?

6           A           I am talking about manifestations of what in  
7 my opinion had been an etiology of low utero placental  
8 blood flow.

9           Q           Would you agree with me that there is not  
10 necessarily a correlation between those findings and  
11 chronic ischemia in the placenta?

12                   MR. TUCKER: Objection.

13                   THE WITNESS: I would not agree with you  
14 provided we can be sure of one another's terms. To me, the  
15 fibrinoid material is the consequence of damage to the  
16 superficial lining of that great white structure.

17                   It is my opinion that in this case, in terms  
18 of the distribution of those ischemic changes, in terms of  
19 the fact that it was a thin placenta and a wide placenta in  
20 terms of the nucleated red blood cells which, in my  
21 opinion, result from low utero placental blood flow in  
22 substantial number and certainly far higher population  
23 here, I think quite candidly, anybody who would disagree  
24 with that is patently incorrect.

25                   Far more of those nucleated red cells came

1 from chronic deficiency of utero placental blood flow than  
2 from ABO incompatibility. The precedent from that being  
3 not just my own expense, but what is in the limited amount  
4 of literature that is available. And because in my opinion  
5 this is unequivocally low utero placental blood flow, you  
6 have, in my opinion, a responsibility to look at things  
7 beyond just the ABO incompatibility, which in my opinion is  
8 a miniscule part of this case.

9                   And that is why the consideration such as  
10 the length of time that the meconium has been there is  
11 important. I interpret this to mean that meconium had been  
12 in the fetal sac for 12 or more hours. I interpreted it to  
13 mean that because of the unusual increase of capillaries,  
14 occasional sites in one place and then in another place and  
15 another place to the point that I end up calling it  
16 multi-focal, tells me that more probable than not, from the  
17 later confirmation, from later confirmation of the clinical  
18 facts, that Deborah, until proven otherwise, has a real  
19 risk of having had gestational diabetes in this case, which  
20 is why I brought for you some literature that can explain  
21 to you why I feel this, you know.

22                   I am delighted to discuss it with you at  
23 length instead of going over the same stuff that we have  
24 rediscussed ten times already.

25                   Q           In your discussion of those factors which



1 you found, that are consistent with placental ischemia,  
2 would it be fair to state that there is no absolute  
3 correlation between placenta eschemia and perinatal  
4 morbidity or mortality?

5 A Nothing is absolute, or few things are. I  
6 shouldn't say nothing, but few things are absolute. Nobody  
7 would ever claim that most things are absolute. You have a  
8 whole bunch of contributory issues. And in here many of  
9 them, in my opinion, are very bad.

10 Q On Page 2 of your report, you never did  
11 notice the directed Coombs positive test; did you?

12 MR. TUCKER: He never did notice?

13 Q (By Mr. Novak) In other words, you didn't  
14 write it down here; did you?

15 A Page 2, but I didn't have any history in  
16 this first report.

17 Q How about in the next report?

18 A I think in the next report, I addressed the  
19 immunohemolytic thing very precisely. I said the antibody  
20 screen was negative. That is the real issue. The presence  
21 or absence of Coombs test in ABO incompatibility is totally  
22 irrelevant because the truth is, and I brought this paper  
23 For you to, you know, read.

24 And I would challenge you or Dr. Kaplan or  
25 anybody else to do a literature search which diminishes the

1 importance of that paper and its observation, is that in  
2 the substantial bulk, probably at least 13 out of 14 of the  
3 cases of ABO incompatibility, you don't have a Coombs test  
4 positive situation.

5 The point about ABO is that the foreign  
6 antigen is not a strong potent antigen. The mother sent  
7 back IGG antibody into the baby. And that IGG antibody  
8 that she sent back to this weak foreign antigen of the baby  
9 more likely than not from what expert hemotologist will  
10 tell you, and I even brought, you know, a paper to that out  
11 of Mollison, M-o-l-l-i-s-o-n, weak antigens, which could  
12 have been diffused in tissues other than just the red blood  
13 cell.

14 But, the bottom line is you have got a  
15 negative antibody screen. By that, unless Dr. Kaplan or  
16 somebody else can educate me to the contrary, this is a  
17 typical situation of a weak foreign antigen, namely the A  
18 blood group of Jordan getting across into the mother's  
19 system, which then produces reaction antibody IGG that goes  
20 back across to Jordan.

21 This is such a weak system of antibodies  
22 that it explains why together with my later learned  
23 observation from the records, that this was not severe  
24 anemia in Jordan that Jordan had, that in my opinion, with  
25 appropriate respect to Dr. Kaplan, it would be ridiculous

1 for this to say this was a significant ABO incompatibility.

2 It doesn't shape up with my experience. It  
3 surely doesn't shape up with the clinical facts of **this**  
4 case, nor does it shape up with existent literature that is  
5 available to Dr. Kaplan and anybody else.

6 Q Let me ask you: Having written all of these  
7 articles on nucleated red blood cells and never mentioning  
8 the issue of ABO incompatibility, does it concern you now  
9 that perhaps this is a case that nucleated red blood cells  
10 are related to ABO incompatibility, and perhaps you have  
11 just never written about it?

12 MR. TUCKER: Objection.

13 Q (By Mr. Novak) I mean, does that personally  
14 bother you?

15 MR. TUCKER: Does it personally bother him?

16 Q (By Mr. Novak) Maybe that is why you are  
17 rejecting her concept here.

18 MR. TUCKER: I object to the form of the  
19 question.

20 A No. Actually many people present hypotheses  
21 that are reasonable, but the hypothesis, and I am telling  
22 you, I have a great deal of professional respect for Dr.  
23 Kaplan. And on a personal level, I have enormous respect  
24 for Dr. Kaplan. She is a tremendously honest ethical  
25 person. If she wrote that and submitted it to, you know, a

1 manuscript, you know, I would have to say to Dr. Kaplan,  
2 for the reasons one, two, three, four, five, six, seven,  
3 eight, nine, ten, you know, this is a totally invalid  
4 hypothesis; therefore, in a Missouri sense, you better show  
5 me a hell of a lot of evidence to prove your point; okay?  
6 Because the evidence in my experiences is not there, nor is  
7 it there in the literature. I am talking now so there is  
8 no misunderstanding --

9 MR. TUCKER: Let him put a question to you.

10 THE WITNESS: Let me put it in context  
11 because Cindy Kaplan may read this. I am talking now about  
12 a massive population of nucleated red blood cells. I am  
13 talking about the fact -- correct me if I am wrong, but the  
14 hemoglobin of the babe was 13.2 at one hour and 32 minutes  
15 after delivery. That is not a massive change. The degree  
16 of bilirubinemia was not all that significant.

17 The whole profile is not that, and the fact  
18 that the Coombs test is positive is the saddest thing.  
19 That is like the assumption that many names on a list of  
20 Lawyers means it is a defense firm because the fact is if  
21 you look at the best paper that I have on my files to do  
22 with ABO incompatibility, almost all of those cases have  
23 negative Coombs tests.

24 So if Dr. Kaplan is going to present to me  
25 a positive test as sine qua non evidence, you know,

1 s-i-n-e q-u-a and then n-o-n, I think, evidence or strong  
2 evidence of ABO incompatibility of importance, I am  
3 sorry. With due respect, I think she is way dead wrong on  
4 that.

5 Q Slide D, D-1 and D-2. Dr. Kaplan testified  
6 those were edges of placenta; do you disagree with her?

7 A I think that it is very valid for Dr. Kaplan  
8 to say they are near the edge. But there are two reasons  
9 that indicate firmly that Dr. Kaplan is being -- probably  
10 three reasons actually, a little bit unreasonable here.

11 Q Why? Tell us why.

12 A Firstly, if she wants to imply that one  
13 often sees the number of hypervascular villi with  
14 capillaries in this case, well, she is on sworn testimony.  
15 She would have to be able to say that she could show me,  
16 you know, 50 cases or a hundred cases where with ischemia  
17 or otherwise that it is common to see it at the edge. You  
18 know, patently unlike my experience, because in my  
19 experience, I have seen a hell of a lot of, you know, areas  
20 near the edge.

21 And I would say that it would attract  
22 attention to me if I would see that rather than to imply  
23 that it is common. The truth is if you go to my  
24 description of Slide A where I speak about some edge tissue  
25 that is present and I refer to the increase in syncytial

1 knots and the glutinated villi, I would a hundred percent  
2 agree with Dr. Kaplan that it is quite common to see a  
3 range of low blood perfusion changes at the edge, but not  
4 this kind of change; okay?

5 Secondly, Br. Kaplan would have to agree  
6 that it cannot be the very edge in Slide D, as I understand  
7 you're addressing, because neither of the two pieces of  
8 tissue in Slide D have an apex. So it either has to be,  
9 you know, four or five sonometers away.

10 So I am not going to nit-pick on whether it  
11 is the very edge or not. I am merely going to say that on  
12 the times when I am impressed with, and I want to be sure  
13 that this is said very succinctly in one sentence.

14 In the times that I am impressed with  
15 histopathologic evidence of low utero placental blood flow  
16 at the edge, it is not that I see the number, the number of  
17 villi that I saw here with increased capillaries.

18 It seems to me I even took three different  
19 photographs as opposed to saying that it is the same  
20 photograph at different magnifications. I took three  
21 different photographs. I believe in one of them, I might  
22 have even emphasized there that there were nucleated red  
23 blood cells in there.

24 In contradistinction from Slide C, where I  
25 show fibrinoid material and in Slide E where I show

1    fibrinoid material, and so the changes are quite different.  
2    There are three different pictures that I took of Slide D  
3    that have **hypervascular** changes.

4                   They are photographed at 10 x, and they are  
5    absolutely, you know, a situation where **many** of the villi  
6    show those changes of either **dismaturity**. Slide D with the  
7    number 28 on the corner has a very unusual kind of pattern  
8    of the central villus.

9                   That to me is a **dismature** feature. It is  
10   not a normal maturational change. That attracts my  
11   attention along with many, many other considerations to the  
12   consideration of maternal diabetes.

13           Q        I am going to ask you a big favor. In about  
14   fifteen minutes, I am going to ask you some questions. I  
15   am going to really roll because I want to get done by 8:00  
16   or 8:15. It is getting on about quarter to 8:00.

17                   MR. NOVAK: What is the matter?

18                   MR. TUCKER: I was going to suggest that we  
19   give our reporter a couple minutes.

20                               (Recess taken.)

21           Q        (By Mr. Novak) The reported weight of **540**  
22   grams, normal; isn't it, for term?

23           A        Yes.

24           Q        Okay. You had problems, and you referred to  
25   the configuration as abnormal. Why?

1           A           The 26 sonometers is quite wide. The 1.7  
2 sonometer is thin. My interpretation of this case and to  
3 get sight to why I think it should be considered diabetes  
4 as a possibility is, number one, you have a physically big  
5 disc, okay, 26 sonometers. That is a physically big disc;  
6 okay?

7                       You have 20 sonometers in the other  
8 dimension, which is a legitimate good size. I mean it is  
9 nowhere near 26, but I mean 26 by 20 is big; okay? The 1.7  
10 thickness combined with substantial evidence of low utero  
11 placental blood flow which exists, in my opinion, would  
12 account for a concept of a mother that has vascular disease  
13 in the uterine bed, b-e-d.

14                      The large -- the very large number of  
15 nucleated red blood cells cannot be explained by ABO  
16 incompatibility. I have gone into that already. Now, let  
17 me just finish the point.

18           Q           I am really trying to finish fast. All I  
19 asked you was why you thought the placenta was abnormal.  
20 That is all. I think you did.

21           A           All right.

22           Q           I am trying to get through this --  
23                       MR. TUCKER: Go ahead ask your next  
24 question.

25           Q           (By Mr. Novak) The only other question I



1 have on that, and I think Dr. Kaplan addressed that, is  
2 when the measurement is made of the placenta, as it was  
3 here, the accuracy of the measurement with respect to its  
4 various components in a large part depends on the person  
5 who is doing it; is that a **fair** statement?

6 A Fair statement.

7 Q Okay. Now, the umbilical cord where it says  
8 was 61.5 sonometers, did you arrive at that by adding up  
9 the various components that were presented to the pathology  
10 department?

11 A That was my understanding. 20 plus 29 is  
12 49, plus 12.5 is what I would have come to.

13 Q Okay. Once again, depends upon the accuracy  
14 of the measurements as recorded by the person who is there;  
15 correct?

16 A Yes.

17 Q Okay. I'm going to get to Page 2 your  
18 second report.

19 A Let me get to my second report then.

20 Q Okay.

21 A I have it.

22 Q Okay. Where you talk about I'm looking  
23 between Subparagraphs A and B under nucleated red blood  
24 cells.

25 A Yes.

1           Q           Where you are referring to the combination  
2 of the gross features.

3           A           Yes.

4           Q           Okay, When you refer to the microscopically  
5 seen fibroid material and when you end that sentence with  
6 the and/or maternal diabetes; okay?

7           A           Yes. I left one thing out here. In the  
8 matter of discovery, it will explain to you why I put it in  
9 the answer.

10          Q           Let me ask you real quick.

11          A           Right.

12          Q           What you are talking about here are factors  
13 of ischemia; is that right? This -- you are talking  
14 about --

15          A           Villus capillary hyperplasia is a different  
16 form of ischemia entirely. Most capillary hyperplasia is  
17 long standing several weeks of low perfusion.

18          Q           Without trying to cloak this in general, the  
19 word ischemia --

20          A           We are talking low placental blood flow in  
21 that tissue.

22          Q           Would you agree with me that your caveat as  
23 written in your article on placental medical-legal  
24 imperative, that there is no absolute correlation between  
25 placental ischemia and perinatal morbidity and mortality

1 still stands? I mean, you stick by that caveat; don't you?

2 MR. TUCKER: Objection. I think you asked  
3 that question earlier.

4 THE WITNESS: Look, he is in a big hurry to  
5 get to a plane. This is a discovery deposition. This, in  
6 my opinion, is a perfect example of head spearing, head  
7 spearing of low utero placental blood flow for many, many  
8 days prior to delivery.

9 MR. TUCKER: Answer the question.

10 THE WITNESS: Okay. But, I mean I feel as  
11 though he is pressuring me --

12 MR. NOVAK: No --

13 THE WITNESS: -- to because he has got to  
14 leave.

15 MR. TUCKER: You are not under any pressure.  
16 All you have to do is answer the questions that he asks.  
17 If he doesn't ask questions, that is his business.

18 MR. NOVAK: Right. That is my problem,  
19 right.

20 THE WITNESS: Okay.

21 Q (By Mr. Novak) Now, with respect to the  
22 findings in the lungs, and you made comment on that on Page  
23 4, where you say I opine that some of Jordon's neonatal  
24 problems were attributable to a predelivery intrapulmonary  
25 presence of meconium. The fact of the matter is neither

1 the x-ray reports, nor Dr. Martin, nor any of the  
2 neonatologists describe any meconium pneumonitis in this  
3 case; do they?

4 A Oh, I think you are missing the point here.  
5 I am not talking here about particulate matter in there,  
6 which is what they would see, the consequence of  
7 particulate matter in an x-ray. Do you see what I am  
8 saying?

9 I'm talking about quote unquote -- where is  
10 it here, soluble and diffusible components. I'm not  
11 talking about particulate -- I am sorry to get to the  
12 point; okay?

13 Q So, this is -- there is nothing that can be  
14 seen on x-ray; right?

15 A That is right. I'm talking about that you  
16 would have a toxin that would alter the surfactant in that  
17 lung tissue because it is a chemical toxin. You would have  
18 to consider -- I am not saying absolutely a hundred  
19 percent, you would have to consider that if it has been  
20 there for 12 hours or more, as I contend in the sac, that  
21 some of the soluble products may have gotten there, period.

22 Q I want to emphasize you are very concerned  
23 about the use of words. "May" is the word you are using  
24 with respect --

25 A Absolutely. I have not made a big time

1 federal a hundred percent thing out of it.

2 Q Page 3 of your report on the intrauterine  
3 growth retardation. Why do you think that Babson and Benda  
4 is more applicable to Cleveland than Lubchenko?

5 A For two reasons, Because it seems to me  
6 that if you will pursue the literature, and there is an  
7 author by the name of Goldenberg, G-o-l-d-e-n-b-e-r-g, it  
8 is probably in cross references. In fact, I'm sure it is  
9 in my papers, that the point that would be made is that you  
10 can get a substantial difference in mean birth weight at  
11 term from one population to another. And the factors can  
12 include sociocultural demographics, can include height  
13 above sea level.

14 And the -- particularly the Colorado data,  
15 which is not popular in the '90s in comparison, you know,  
16 to the number of intensive care units that use that data in  
17 the '90s as opposed to the '80s because the Lubchenko, that  
18 is L-u-b-c-h-e-n-k-o, I think, you will have to check it  
19 later, Lubchenko data originated from many, many mothers'  
20 and babes from socioculturally derived circumstances let  
21 alone any consideration as to the effect of height above  
22 sea level.

23 But the fact is Benda data is more popular  
24 nowadays than those, I believe, in the literature for the  
25 reasons given.

1           Q           Dr. Martin -- and I am sure you respect Dr.  
2 Martin, Cleveland, Ohio?

3           A           I do.

4           Q           In **fact** you wrote a chapter in his book, his  
5 and Dr. Fanaroff book, on neonataloly?

6           A           Yes, I have a chapter in that same book, so  
7 I hope he would respect me.

8           Q           Yeah. Me didn't anywhere, nor did any of  
9 his neonatalogists who worked under him, mention that there  
10 was any intrauterine growth retardation here?

11          A           I myself would emphasize this is not  
12 symmetrically small for gestational age. What this is is  
13 if you go to the Benda chart, which I provided, it is at  
14 the 15 percentile for the head. And that to me attracts a  
15 enormous potential importance.

16                   Why should the head be small in this case  
17 when the head typically would be expected to be bigger? I  
18 believe -- in fact, I need to check that. The head, yes,  
19 is at the 15 percentile.

20          Q           But in the Lubchenko chart, it is -- what  
21 percentile is it?

22          A           The Lubchenko chart, I do believe I brought  
23 with me. I would have to look to refresh my memory. As I  
24 say, I am of the school that believes that the Lubchenko  
25 zhart is less applicable than would be the Benda chart.

1 MR. TUCKER: You want me to show him the --

2 MR. NOVAK: Yeah.

3 MR. TUCKER: Let's pull it out.

4 THE WITNESS: The important issue here is  
5 this from a pathogenetic standpoint, for a moment, let's  
6 forget the charts; all right? Important issue here is that  
7 the head is usually the last of these factors to become  
8 small; okay? Here it is small.

9 It suggests to me that there had to have  
10 been significant compromises of flow to the head.

11 Q (By Mr. Novak) On Lubchenko chart --

12 A On the Lubchenko chart just now shown me,  
13 the length is potentially at the hundredths or 99.9  
14 percentile. I mean, it is way up there.

15 Q What about the head?

16 A The head is at the 75th percentile. So,  
17 again, it is lagging significantly beneath the length.

18 It is an abnormal growth pattern is what I  
19 am getting at from Lubchenko.

20 Q You recognize in your second report that  
21 Jordan did have some slight anemia?

22 A I do believe I said that I thought it was  
23 13.2 -- correct me if I am wrong. I brought you a paper  
24 which would indicate that that is not really all that much  
25 of anemia at 13.2. I think the paper I brought indicated

1 for hemolytic anemia 13.5 would be an acceptable normal.

2 Q Just a few more questions. Plaintiff's  
3 Exhibit 2, the second FDE folder, did you have any role,  
4 play any role in writing that one?

5 A You know, I don't believe that I did.

6 Q Let me tell you why I asked the question.

7 A I really don't believe that I did. I think  
8 this postdated the other one that you had. The words may  
9 include words that I have used over the years, but this is  
10 not the kind of stuff that I believe that I had written.

11 Q The reason I ask the question --

12 A Quite the opposite. In fact, I didn't think  
13 that this is mine.

14 Q The reason I ask the question is because it  
15 says here in the inner part, it says the placenta has a  
16 diary of gestational life. I have seen Dr. Benirschke use  
17 that. I have seen that --

18 A That is Altshulerism. I am sure Dr. Kaplan  
19 would tell you the same thing. The term the placenta is a  
20 diary of gestational life has been done and redone to death  
21 ever since the time that I first introduced it. That is an  
22 Altshulerism. They probably picked up on it and put it in  
23 there.

24 Q A couple of other questions. In your  
25 article on placenta within the medical-legal imperative,



1 you make a statement. You say when negligence is the  
2 proved cause of bad pregnancy outcome, monetary  
3 compensation has been as high as \$15 million. Where did  
4 you get that?

5 A Experience, experiences.

6 Q I mean, do you stay in contact with the  
7 lawyers on cases; is that how you --

8 A No. I have read things over time. People  
9 have passed things to me and told me things orally. I  
10 stand by that statement. I believe it to be true. I have  
11 heard it from more than one source and probably seen it in  
12 print.

13 Q You also say here about settlements. It  
14 says settlements usually favor the defense?

15 A In a statistical sense, that is meaning if I  
16 reflect upon my own personal experience, again, and, you  
17 know, what I have heard from others, that is true in a  
18 numerical senses.

19 Q What is the medical-legal imperative that  
20 has thus emerged?

21 A Oh, it would seem to me to be obvious, that  
22 for whatever reason, that, you know, that I don't know in  
23 toto; it is that clinicians more and more are pressuring  
24 pathologists to examine the placenta. **And** whether it is  
25 because their risk managers have done that or whatever, you

1 know, I can't second guess everybody's reason.

2 But, it is clear that in an institutional  
3 sense, and just talking to obstetricians when they have a  
4 problem, they want it examined far more now. It is  
5 imperative that pathologists have to examine it because  
6 they want it than they did in the past. That doesn't mean  
7 to say that every obstetrician wants the placenta examined.  
8 But, if there is a real problem and their back is up  
9 against the wall, they want a placental exam.

10 Q But, it is because of physicians liability  
11 insurance companies pressure obstetricians to have  
12 placental exams; right?

13 A I answered that already.

14 MR. NOVAK; He puts it right here.  
15 Physicians liability insurance company have pressured  
16 clinicians to perform placental examinations where there is  
17 perinatal --

18 A I have indicated by intent that that is part  
19 of it. But, you would have to go to the individual. I  
20 mean that is the intent of the answer that whether it is an  
21 institutional or, you know, a corporate thing or heaven  
22 only knows how you want to describe an insurance company.

23 Clearly there are all kinds of pressures. I  
24 can't second guess, you know, when, for example, if an  
25 obstetrician in our Health Sciences Center, you know, sends

1 me a placenta, and I give an opinion, and then I find from  
2 the history it is a pretty bad, you know, clinical  
3 circumstance, you know, I don't say to him, "Are you  
4 sending this because an insurance company told you to send  
5 it?" Clearly that is a consideration that he is probably  
6 thinking about.

7 Q Two last questions. Fetal heart rates, you  
8 are not an expert on fetal heart rates; right?

9 A Not in terms of reading them. I am very  
10 much aware, you know, of certain patterns that might mean  
11 certain things.

12 Q Okay.

13 A But, I don't read them. I don't represent  
14 myself to be an expert on them.

15 Q Second question, would you agree with the  
16 concept of fetal heart rates can be helpful in helping  
17 determine what the fetal wellbeing is?

18 A They can be helpful, but by no means would I  
19 or ostetricians, clincial obstetricians depend upon.

20 Q Absolute last question: Have you ever seen  
21 placenta pathology like you have here in a normal baby?

22 MR. TUCKER: Objection.

23 THE WITNESS: Oh, absolutely not. Relative  
24 to this nucleated red blood cell count, I mean I have been  
25 preaching for a while now if you see such a huge population

1 through the light microscope, that takes it out of the ball  
2 park of just being, you know, slight elevation. This is of  
3 course confirmed by the 16.9 times ten to the ninth in the  
4 peripheral blood of one hour and 32 minutes after delivery.  
5 That changes the whole complexion right there, the  
6 numerical extent of it.

7 MR. NOVAK: I have no further questions.  
8 This is our office card. Send me the bill.

9 MR. TUCKER: Send it to me.

10 THE WITNESS: I'll send it to him. I will  
11 send an authorization.

12 The bill from your point of view is when to  
13 when?

14 MR. NOVAK: 5:30 to 8:10.

15 THE WITNESS: 5:30 --

16 MR. NOVAK: We started just about on the  
17 dot.

18 THE WITNESS: Since I have given you all of  
19 those things, why don't we say 8:15. A quarter is easier  
20 than five minutes. 5:30 to 8:15 p.m.

21 MR. TUCKER: Off the record for a second.

22 (An off-the-record discussion was held.)

23 MR. TUCKER: We have got on the record now,  
24 we have got Plaintiff's Exhibit 1, which is this first -- a  
25 copy of this first FDE brochure.

1                   Plaintiff's Exhibit 2, which is the brochure  
2                   itself that has been updated, referred to.

3                   Exhibit 3 is a manila folder within which is  
4                   Dr. Altshuler's file per this case, And in there is  
5                   literature to which he made passing reference on hemolytic  
6                   anemia, ABO incompatibility, nucleated red blood cells,  
7                   also nucleated red blood cells marker for asphyxia and  
8                   gestational diabetes. I believe you have copies of all of  
9                   those that he gave you and to which --

10                  THE WITNESS: But, there were other things  
11                  that I gave in this set. He has got them.

12                  MR. NOVAK: I have got them.

13                  THE WITNESS: I mean can I see that so that  
14                  I know?

15                  MR. TUCKER: Sure.

16                  THE WITNESS: The ABO incompatibility has  
17                  three different papers. And then this one; right? So in  
18                  terms of the number of papers, we are talking four, five,  
19                  six, seven different papers including diabetes.

20                  MR. NOVAK: The next thing is extract from  
21                  medical records of Deborah and Jordan Reaze. Those are  
22                  clipped. The next thing are letters.

23                  MR. TUCKER: Well, before we get to them,  
24                  the extracts include portions of the medical records.

25                  MR. NOVAK: Right.

1 MR. TUCKER: The next is a copy of Dr.  
2 Altshuler's correspondence from counsel and to counsel.  
3 The next is several pages of records entitled **summary** of  
4 Reaze versus UH of Cleveland, dated December 11, 1995  
5 consisting of two pages that are both-sided and one  
6 additional page.

7 MR. NOVAK: The next thing is his CV. **And**  
8 the last part are his photomicrographs. There are --

9 MR. TUCKER: 17 of them.

10 MR. NOVAK: Okay. That is it.

11 MR. TUCKER: Our understanding is that this  
12 will all be -- everything here will be copied, and I would  
13 like it attached.

14 MR. NOVAK; Except the photomicrographs.

15 MR. TUCKER: She is going make a copy of  
16 that on the copy machine. Just make a copy of this sheet  
17 with them. I would ask that a completed copy of Exhibit 1,  
18 2 and 3 be appended to the original of the deposition and  
19 my copy as well.

20 MR. NOVAK: You want doctor to sign it  
21 obviously?

22 MR. TUCKER: Sure.

23 THE WITNESS: You have to number those  
24 pictures, or else the labels will get all mixed up.

25 (Witness excused.)

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

\_\_\_\_\_  
GEOFFREY ALTSHULER, M.D.

STATE OF OKLAHOMA    )  
                          ) SS:  
COUNTY OF OKLAHOMA   )

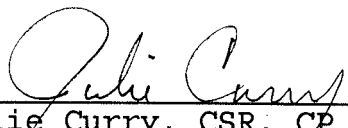
Subscribed and sworn to before me this \_\_\_\_\_ day  
of \_\_\_\_\_, 199\_\_.

\_\_\_\_\_  
Notary Public

My Commission Expires:  
\_\_\_\_\_

1  
2 CERTIFICATE3 STATE OF OKLAHOMA )  
4 ) SS:  
COUNTY OF OKLAHOMA )5 I, Julie Curry, a Certified Shorthand Reporter in  
6 and for the State of Oklahoma, do hereby certify that the  
7 witness, GEOFFREY ALTSHULER, M.D., was by me first duly  
8 sworn to tell the truth, the whole truth, and nothing but  
9 the truth in the case aforesaid, and that the deposition  
10 was reduced to writing by me by means of stenograph, and  
11 thereafter transcribed by me or under my supervision, aided  
12 by computer, and that the same was taken on the 12th day of  
13 December, 1995, in the City of Oklahoma City, County of  
14 Oklahoma, State of Oklahoma.15 I further certify that the foregoing is a full, true  
16 and correct transcript of proceedings had in the  
17 aforementioned cause,18 I further certify that I am not related to nor  
19 attorney for either of said parties.

20 Dated this 26th day of December, 1995.

21  
22   
23 Julie Curry, CSR, CP  
24 Julie Curry  
Oklahoma Certified Shorthand Reporter  
Certificate No. 00191  
25 Exp. Date: December 31, 1996