In The Matter Of:

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Mark Turner, et al v. *City of Chicago, et al* **GOLDBERG & GOLDBERG**

Michael S. Radetsky, M.D. Vol. 2, February 8, 1996

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Mark Turner, et al v. City of Chicago, et al

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[1]		[1]	APPEARANCES	
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[5]		[6]		
161			For the Defendants (By telephone):	
[7]	CITY OF CHICAGO a municipal corporation d/b/a	[7]		
	MUNICIPALCONTAGIOUS DISEASE HOSPITAL et al ,		MS. BARBARA A. McDONALD	
[8]		[8]	Assistant Corporation Counsel	
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(10)	TELEPHONE DEPOSITIONOF MICHAELS RADETSKY M D		Chicago, Illinois 60602	
r 4 4 1	VOLUME II	10]		
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A: Well? I can't answer it, sr, without looking at the	[1] MS. McDONALD: He answered the question.
2] context. I didn't copy down the word "fretful."	[2] MR. GOLDBERG: No, he hasn't answered the
^[3] Q: Well. whether you copied it or not, what do you	[3] question, and I'm waiting.
[4] assume the word to mean?	[4] Q: Tell me all the different meanings that you consider
⁽⁵⁾ MS. McDONALD: I think he's indicated he needs to	[5] "fretful" to mean.
[6] see it in the chart. You know, maybe to speed things up there	[6] A: I don't consider "fretful" to mean any particular
[7] are some	[7] limited series of things. In the opinion of whoever uses the
[8] MR. GOLDBERG: That's not the point. I'm asking	[8] word, it obviousiy has a descriptive meaning regarding the
^[9] you, as a physician. what does the word "fretful" mean to you,	[9] behavior of a person. What that descriptive meaning is depends
10] whether it's in the chart or not?	10] on the context in whch it's used.
A: It means what it means \mathbf{n} the context in which it's	11] I'm sorry, sir. I'm not finished. And therefore, in
12] used. It's very hard to answer unless I know the context.	12) order for me to try to answer the question what does "fretful"
2: Well, Doctor, answer the question anyway.	13] mean, one needs to look at the context.
A: Mr. Goidberg, I have answered the question.	Q: I'm reading from a note that says, "Fretful at
15] Q: You haven't.	15] times."What does that mean?
MS. McDONALD: He's answered the quesuon.	
	-
17] Q: Do you know what the word "fretful" means? Yes or 18] no, medically?	Q: It's a note on page 45 on the date of the 8th."fretful at tunes." What does it mean?
19) MS. MCDONALD: He's indicated it means different 20] things in different contexts.	19] A: I'm fmding that parucular point, if you'll just
O: What does it mean Destar?	20] wait a moment. Now, is that from a progress note?
	21] Q: No, it's from a nurse's note.
	22] A: Okay.
 answer. A: I have answered the question. sir. 	23] Q: You will have either page L83, or 45 is the number,
	24] one of the two.Do you have the original?
^{25]} G: You, haven t, sir. I'm waiting for an answer.	25] (A discussion was held off the record.)
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[1] Either you know, you don't know, or -	[1] Q: 12:00 is the time, Doctor.
[2] MS. McDONALD: Or it has a different meaning in	[2] A: I'm still looking for it, sir.
[2] MS. MCDONALD: Or it has a different meaning in[3] different contexts.	 [2] A: I'm still looking for it, sir. [3] Q: Do you have the nurses' notes in your copy of the
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	 Bogo 224
Page222 [1] that's on my copy. L83 or 45. Nurses' notes from the date of	Page 224 [1] thoroughly satisfied they're not there, then I'll take another
[2] the 8th .	[2] procedure.
[3] A: I can't find them in my copy of it, sir.	[3] A: Let me look in one last place, if you √vill.
[4] MS. McDONALD: They're not in my copy, either,	[4] Q: All right.
[5] for some reason. This was maybe from the original chart. I	[5] A: Voila, I found it. I found the nursing notes with a
[6] don't know.	[6] 45 at the bottom. Is that what you were asking for?
(7) MR. GOLDBERG: This is the copy that I Rave. and	7] Q: There is a page -
[8] this is what you made from the original.	B1 A: Yes I see it.
[9] MS. McDONALD: But I'm just pointing out for some	Q: - of the nursing notes that has 45 with the top of
10] reason they're missing in my chart, too.	o it having 1/7/71, 1/8/71 and 1/9/71.
A: I do not have that.	A: Well, the nursing note I have that has a 45 on the
O: (BuMr Goldberg) in your conv of the chart you	2) bottom says MarkTurner with a number, physician's reference,
 12] Q. (By MI. Goldberg) If your copy of the chart you 13] received. you don't have any nurses' notes? 	1/7/71 at the top, so that's - I do have a copy right here.
A: No I do not have that number 15 on a nursing note	
Or Von have [82] Dector I don't want to helphor	4] Q: Okay. So then if you drop down some lines, you see
	5] 1/8?
Isj this. Find the nurses' notes you do have, and find the date of	6] A: Got it.
17] January 8.	7) Q: Yes?
A: Well, you know something, Mr. Goldberg?That's	a) A: Got it.
19] exactly what I'm trying to do.	9) Q: I can't hear you, Doctor.
Q: Well, that's what I'm waiting for.	A Yes, sir, I have it.
MS. McDONALD: Let me just say, it may be	Q: Thank you. Can you speak into the microphone,
missing, because it's missing from my copy, but if he looks on	2] Doctor?We hear you better.
it - maybe you have the one from January 4. There's also a	13] A Okay. How's this?
[24] reference in there on the nursing notes.	(24) Q: See there next to the day $1/8/71$, it says, "Fretful
[25] MR. GOLDBERG: I'm not interested in January 4.	25] at times"?
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Page226	Page 228
[1] worried or perhaps whines some when disturbed	(1) A: Yes
[2] Q : Have you %shed that, Doctor?	Q: The next note on the next shift says, "Somewhat
[3] A: Yes	[3] fretful."What did you assume that to mean?
[4] Q: Are the nurse's notes, the type of which we ve just	[4] A: The same
[5] read, something which you took into consideration in reaching	[5] Q: What does the word "restless" mean to you, Doctor,
(6) the opuuons concerning this child's status!	[6] A: Is the "restless" the one that you're referring to
[7] A: I took the notes into consideration in reaching my	[7] on 1/3/71.
(8) conclusion, yes.	[B] Q: It's on the page there, yes.
[9] Q: Well.in reaching your conclusion, did you then also	[9] A: I'm sorry. It's 1/5/71. I misspoke.
[10] consider and evaluate the status as observers who werewith the	10] Q: Right.
(11) child wrote in the chart?	A: I interpret that to mean that the child was not
[12] A: Yes, I did.	12] resting comfortably, but perhaps was rolling around more, or
[13] Q: Now. Doctor, would you turn to a page of the nurse's	[13] seemed to be somewhat uncomfortable.
[14] notes that deals with the date of the 3rd? And I can give you	14] Q: Did you, Doctor, anywhere in any of the notes that
[15] the front of the page number, but I don't know what would be on	15] you, in fact, dictated and had typed include the nurse's notes,
[16] the back. It's either L89 or 56 on the front. On the front is	16) the ones we've just read?
[17] a graph sheet.	A: Well, let me refer back to those notes. No. I did
[18] MS. McDONALD: The back of L90.	18] not include those excerpts in my notes.
[19] Q: L90.	19] Q: Why not?
[20] A: Well, I don't have a number that's readable to me,	20] A: I did not consider them to be important observations
[21] but I have nursing notes dated $1/3/71$ in which there are some	21) from the part of the nurse that I wished to use as a way of
[22] notes and then there's a cross through the notes. Is that what[23] you're referring to? Does it start with staff, or staff	22] review. 23] Q: Why not?
[23] you're referning to'r Does it start with starr, or starr [24] rounds?	A. Deserve the server wet simplify and the wet
[25] Q: No.	
	25 G. Doctor, 15 it correct that herein is a phrase
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Page 227 [1] A: Let me flip to the next one, then. O: It's on the avalate talking shout a	Page 229 [1] that can be used depending upon the person using it to describe
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Page234	Page 236
Q: If that were to be the case and the places in this	[1] But I certainly would have to integrate that in the formation
[2] chart where "fretful" were, in fact, written - would that in	[2] of my opmion.
3) any way have any impact upon your opinions concerning the	[3] Q: And in this case, with reference to the word
4) status of this child?	[4] "fretful" and with reference to the word "restless," you have
^{5]} MS. McDONALD: Let me object because there's no	[5] given us the opinions as to how you mterpret it when you, in
basis for the hypothetical. But go ahead.	[6] fact, reviewed this case and at the time you reached your
A: Well, if that hypothetical were true. it would make	[7] opinions and gave your opinions at the deposition the last time
g me thmk longer about what the chdd's mental status was during	[8] and this time: correct?
b) those days in which that word was being used, because it	[9] A: Yes.
oj conflicts with an appraisal of the child's mental status which	Q: Did you note, Doctor, that Dr. Gotoff, in his
1] was performed by the physician staff. And given that conflict,	11] reading of the interpretation of the word "fretful" and
2] I would have to reconsider what my portrait of the child's	restless" had a different meaning and interpretation than you
3) condition was at the time and reconsider whether the child had	13) do?
a) earlier evidence of a significant disease. But I would be	A: Perhaps you could refer me to that.
caught in that conflict because the physician staff was quite	
clear that the child did not have a meaningful altered level of	15] G: Well, do you remember that? 16] A: No, I don't.
consciousness at the tune.	Q: Did you note or did you read the deposition of Dr.
O. Lapprovists that But that's what you'd ha	(B) Schulman?
⁶) G: rappreciate that. But that's what you'd be	
oj A: Yes.	19] A: No, I did not.
	20) Q: Did you read the deposition of any of the
 q: You could do that: correct? a: I would have to. 	21) plaintiffs' experts?
	22] A: Yes, A Dr. Charash and a Dr. Livingston. Do I have
 G: All right. Now, the next thing I want to ask you, Doctor, is, have you ever seen written in any articles, 	23) his name correct?
journals, literature, involving pediatrics or infectious	24] Q: There is one of the experts who has the name25] Livingston.
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• Page 235	Page 23
1] disease, that the phrase "restless" was used in the furtherance	Page 23 [1] A: Yes.A Charash and a Livingston were the two that I
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Date 200	
Page 238 [1] commonly used in the attempt to describe in words the portrait	Page 24 1) nurses, physicians, or both?
[2] of a child who has a meaningful altered level of consciousness.	2] A: Well. it was used by a nurse, certainly, and I think
Q: When it's used to describe a child who has a	3) we've already pointed that out. Whether it was used by
[4] meaningful altered level of consciousness. in those	a) we've already pointed that out, whence it was used bya) physicians, I don't recall right now that the word "irritable"
(5) circumstances, hypothetically, where it's used and appropriate,	5 was used by a physician prior to the diagnosis being made, and
(6) what does then the word "irritable" signify and mean to you?	(6) I'd have to search out whether the word "irritable" was used
 A: It means a child who is inappropriately in pain and 	[7] subsequent to the diagnosis. I'd be happy to do that, if you'd
[a] crying in a way that is outside the expected range of normality	[7] subsequent to the diagnosis. I'd be happy to do that, if you'd[8] Like me to.
(9) for a child at a particular age given a particular stimulus.	• •
[10] And it also means that that condition is one which is more or	 [9] Q: Well, let's look in the area. Doctor, of the 2nd, o] 3rd, 4th, 5th, 6th and 7th on your notes. By your notes, I
[11] less constant, rather than coming and going.	1) mean the ones dealing with the chart, Exhibit 4B, okay,
	2] Doctor!
	3) A: My notes are Exhibit 4A. I believe, sir.
[4] lot and are described as irritable is that they are in pain	4] Q: You have the original as 4A. We made copies which
[15] either without being moved or upon being moved, or that the	5] are <i>4B</i> . but they're the same. So starting with the 2nd, did
[16] pain that they have is made worse by being moved, and that's	16] you find, between the 2nd and the end of the 7th, any physician
(17) why they're Irritable. But that's an assumption, since no one,	^[7] that describes the child as being irritable?
[18] you know, has talked to a six-month-old recently.	18] A: No.
[19] Q: I appreciate that, Doctor, but isn't one of the jobs	Q: Same question. Doctor, the 2nd through the 7th. Did
[20] that physicians, pediatricians, and others that care for	20] you find any physician that described the child as being in
[21] children of this age are expected to do is to deal with how,	21) pain?
[22] and using the limitations a sur-month-old has, to reflect what	221 A: Yes.
[23] he or she is experiencing?	23] Q: When?
[24] A : Yes, and that's why I have tried to explain what the	A: There is a progress note on January 6th at 2030
[25] usual interpretation of this excessively irritable state is.	25] hours by Dr. Shastri, and there is a progress note on January
Page 239	-
[1] Most people consider it to be one in which the child is in pain	[1] 7th by Dr. Zarif.
[2] and is expressing the irritability because of the pain.	[2] Q: Read those <i>two</i> notes, please.
[3] Q: Doctor, have you ever used the word "irritable" in	[3] A: The note from Dr. Shastri reads as follows:
[4] describing children in the age under one year of age in the	[4] "Child's mother complains that child cries when his right arm
[5] definition or context different than you just described, that	[5] is moved. Right arm is tender, swollen and warm. Movement
[6] you recall?	[6] seems to produce pain."
[7] A: Again, I may have at one time, sir. I try to stay	[7] And the note from Dr. Zarif says, "Baby cries when
(8) away from that, because "irritable" has acquired a certain	[8] right arm 1s touched."
[9] interpretation of its own that implies serious disease when in	Q: Turn back to page – where it says the 5th, Doctor,
[10] reality it's a word that is used to mean many things by the	10] which is page $\boldsymbol{6}$ of your typewritten sheet.
[11] people who use it. To avoid that conflict between what I mean	11] A : Yes.
(12) and what other people think I mean, I try to avoid the use of	12] Q: You find a nurse's note?
[13] the word "irritable" now. But I may have done it in the past.	13] A: Yes.
[14] Q: And you do know that other people, Doctor, who may	Q: You find where it says, "Right wrist seems tender,
[15] not try to avoid that conflict may use it to accurately	15] extremity painful to touch'?
[16] describe a child who is in pain, or it may be used to describe	16] MS. McDONALD: E-X.
[17] a child who is not in pain; correct?	[17] Q: You find you put in your notes "extremity painful to
[18] A: Yes. The word "irritable" is used to describe all	[18] touch'?
(19) kinds off children. sur.	[19] A: Yes.
[20] Q: Did you, Doctor, in the review of your records, the	[20] Q : You assume the E-X to mean "extremity"?
[21] records of this child. look to see whether or not the word	[21] A : Yes.
[22] "irritable" was used to describe -	[22] Q: And Doctor, E-X could then also properly be
[23] A: I did not seek out the word "irritable," but I noted	[23] "extremity," or could it also be "extremely"?
[24] that the word "irritable" had been used.	[24] A It could be "extremely," sir.
Q: Who the are the persons that used it? Are there	Q: Either way, either word doesn't change the meaning

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1) of the context, is that correct?	1) fresh, they gave that history, that would be closer in time,
2] A: I don't beheve so	2) wouldn't it?
Q: Doctor. with regard to pain on the 5th, did you	3] A: Yes, it would.
4] assume that that pam was real?	4] Q: Yes?
5j A: Yes	5] A: I said yes, it would.
Q: Did you assume that if it was present and real, that	6] Q: Thank you. In fact, you have written about that
7) it mght or could cause this chdd to be Irritable?	7] very pomt. haven't you?
B] A: Yes	B] A: Yes, I have.
9 Q: Same question for the 6th and 7th Did vou assume	9) Q: Now, Doctor, can the word "irritable," in your
of it to be real and it might or could cause the chdd to be in	o) medical opinion, be something which a physician or a nurse or
1) pain, in real pain?	1) both may use appropriately in the context of describing a
2] A: Yes	2) meaningfully altered level of consciousness?
3] Q: With regard, Doctor. to the mother's depositton, or	3] A: It can be used to mean many things, and that
4] the mother's reference to her comments by way of hstory and	4) certainly is one of them.
5) other hospital charts did you note that the mother made	5] Q: With regard, Doctor, to early signs and symptoms of
6) reference in either of those two places to the chdd being in	6) meningitis, have you ever seen that phrase written?
7) pain at a point even earlier than the 5th?	
 A: I behave the mother felt that the child was in pain 9) prior to the 5th, yes 	8) Q: "Early signs and symptoms of meningitis."
	9] A I don't specifically recall having seen that, but I
	10] may have.
	Q: Have you ever specifically written and used those
	2) very words. Doctor?
 said and behave that the mathematics have a second to be a managed. 	13] A: I may have, sir.
A: I beheve that the mother was honest in her memory,	24) Q: And "symptoms of meningitis"?
25] yes	25] A: I may have, but I don't recall specifically.
Page 243	Page 245
[1] Q: Have you, Doctor, from your experience, come to	[1] Q : Whenever you wrote something and had it published,
	[[1]
learn that, of course, mothers may vary, as is everything, as	[2] was it your intent and was it your belief that you were writing
[2] learn that, of course, mothers may vary, as is everything, as	
 23 learn that, of course, mothers may vary, as is everything, as (3) is true with everythmg in life?That there are mothers that 	[2] was it your intent and was it your belief that you were writing
 [2] learn that, of course, mothers may vary, as is everything, as [3] is true with everything in life? That there are mothers that [4] are good historians, some are superb, some are poor, some are 	 [2] was it your intent and was it your belief that you were writing [3] it in good faith for those to read and rely upon? [4] A: Yes. (4) Device your over over for example, in ony medical text
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(1) Q: Or the same question for otitus media.	[1] something, if someone writes a commentary or a critique, that
[2] A: No	[2] you in fact would - and pursue the fmdmg thereof?
[3] Q: Or the 10th edition from 1975?	[3] A: I don't understand the question
[4] A : No	[4] Q: When someone such as yourself writes an arucle,
Q: Have you gone to any books such as Feigm and Cherry	[5] someone writes a commentary on it. isn't that something that
[6] to see what was written on meningitis?	[6] you would expect to be made aware of by your publisher?
[7] A: Not in conjunction with this case, no	A: Well, in the one instance in which that happened to
[8] Q: You have indicated there are certain authors that	⁸ me, I was unaware that a commentary was to be published in
you beheve in the area of pediatric mfecuous disease to be	9] conjunction with my article.
10] recogmzed authorities, have you not?	0] Q: Are you aware that any article you have ever
11] A: No	1] published had a commentary written about it?
[2] Q: You have not said that7	A: Yes. One article that I published had two
3] A: No	3) commentaries written about it.
Q: Well then, let me ask you Who are some of the	4) Q: One by a lawyer, and one by Dr. Klein; correct?
15] people in the United States you consider to be recogned	5] A: No. It was Dr. Feigin and Dr. Kaplan wrote the
6] figures in mfectious disease?	6] commentary, and an attorney wrote another commentary.
A: Well, depends what vou mean by recogmed figures	Q: Excuse me. Dr. Feigin. Have you read anything that
I can certainly give you the names of people who are prominent	18] Dr. Klein has written about you?
is] in their writings and in their reputation for issues involving	19] A: No.
201 infectious disease	Q: Now, Doctor, do the articles that you write and seek
Q: I'll be glad to use that if that's the way you are	11 to have published containopinions and conclusions which, when
22] comfortable	22) you write them, you believe are honestly correct?
A: But I want to make sure that you understand that I	23] A: Yes.
consider no person to be authoritative m the sense of	Q: And when you write things for publication, you have
25] all-knowmg and always correct	25] an audience in mind, do you not?
	Page 249
[1] Q: Including yourself.	[1] A : 1 don't know entirely who the audience is, but I
[2] A: Unfortunately true, sir. The names of such people,	[2] write them at a level with an audience in mind. In other
[3] many of the names that you have named, Dr. Feigin, Dr. Cherry	[3] words, the terminology and complexity of the presentation is
[4] are two of them.	[4] written to match the sophistication of an audience.
[5] Q : Any others you can think of that come to mind?	[5] Q: Now, did you ever read the commentary about one of
[6] A: Well. really, there are many, many names, and if I	[6] your articles written by Dr. Feigin?
[7] were to say a name, it wouldn't mean that they were any more	[7] A : Yes.
[8] wise than names that I mght madvertently leave out.	[8] Q: Did you read the commentary written by the attorney?
[9] Q: Well, how about my giving you a name that I think	[9] A: Yes.
io] you might be familiar with Jerome Klein.	Q: Did you approve those commentaries?
11] A : Yes.	A: I had no prior knowledge of the commentaries.
Q: Is he someone that you have read some of his	Q: Did you send any letters or responses to either one
13] articles?	13) of them regarding the commentaries?
14) A: Yes.	14] A No.
15] Q: Have you ever spoken to Jerome Klein?	Q: Did you ever call or discuss it with them or they
[is] A: I may have briefly once.	16] with you?
	17] A: No.
Q: Has he and you ever collaborated on any work?	
	Q: Do you remember what those commentaries had to say?
18] A: No.	
 A: No. (a) Q: Has he ever written any critique on any of the work 	19] A: In rough outline, yes.
 A: No. Q: Has he ever written any critique on any of the work you have had published or sought to have published? 	 A: In rough outline, yes. Q: Did you find them to be reliable and scientifically
 A: No. Q: Has he ever written any critique on any of the work you have had published or sought to have published? A: Not to my knowledge. 	 A: In rough outline, yes. Q: Did you find them to be reliable and scientifically correct?
 A: No. Q: Has he ever written any critique on any of the work you have had published or sought to have published? A: Not to my knowledge. Q: Has he made any commentaries on works that you have 	 19 A: In rough outline, yes. 20 Q: Did you find them to be reliable and scientifically 21 correct? 22 A: Well, the attorney's commentary was not a scientific
 (18) A: No. (19) Q: Has he ever written any critique on any of the work (20) you have had published or sought to have published? (21) A: Not to my knowledge. 	 A: In rough outline, yes. Q: Did you find them to be reliable and scientifically correct?

[25] Q: Is that something which, Doctor. when you publish

Q: Does that mean it was scientifically and medically

Page25	Page 252
(1) correct?	[1] A: Yes
[2] A: There were portions of their commentary that I did	[2] Q: What case or cases do you recall Dr Barkin was
[3] not agree with. There were poruons of their commentary that I	[3] mvolved in that you were on the opposite side?
[4] did agree with.	[4] A: One I recall was a case in Georgia involving a child
(5) Q: There were portions of the commentary concerning	[5] who had a cardiac arrest in which Dr Barkin was testifying for
[6] what you said that they didn't agree with, wasn't there?	[6] the plaintiff
[7] A: [don't believe so.	Q: And those are the only two that you recall Dr
[8] Q: Now. Doctor, smce the publication of certain papers	[8] Barh was an expert on the opposite side of you?
(9) that you have published. you have been sought out as a defense	[9] A: Yes
[10] expert witness across the country, haven't you?	[10] Q: And Doctor, the case in North Carolina Do you
(11) A: Well, I don't know if I'd go that far, sir. I was	[11] recall the opuuons that you gave in that case?
[12] acting as an expert consultant before and after the article.	[12] A: No, not specifically.not in a vivid way, no
[13] Q: Right And Doctor, isn't it correct that since the	Q: And you don't have a copy of your deposition, do
[14] publication of this article. certain defense lawyers. as a	[14] you, Doctor?
[is] result of having read this article, have contacted you and told	[15] A: No, I don't
[16] you that they read the article and they wanted to talk to you?	[16] Q: You didn't keep your notes?
[17] A: Well, they wanted to submit a case to me. They	A: Well. a deposition was never taken in that case
[18] didn't particularly want to talk to me.	Q: Excuse me, your trial testimony
[19] Q: Right. They wanted to have you review a case;	(19) A : No, I never saw a copy of it
[20] correct?	[20] Q: Do you remember the name of the plaintiff's attorney
[21] A: That's correct.	[21] in that case?
[22] Q: As a matter of fact, Doctor, that's happened quite	A: I think I do, but I can't think of it at the
[23] frequently since these articles have been published; isn't that	[23] moment But I will think of it in the next half-hour
(24) true?	Q: Okay How about the defense lawyer?Do you
[25] A: It certainly happens, sir.	[25] remember who that was?

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Q: Doctor, do you remember any cases smce the A: No, I don'tremember his name [1] [2] publication of your article that you specifically have Q: How about, Doctor. the hospital or the defendant [2] [3] testified in court on involving meningitis? [3] doctor? A: Well, I know I have testified in court on cases in A: Oh, the name of the defense attorney was William [4] (5) which merungitis was the subject matter since the arucle was [5] Hagood. (6) published. **Q:** Do you remember the name of the hospital? [6] Q: Do you remember the names of those cases, Doctor? A: No, I don't. [7] [7] A: Not specifically,no. Q: Do you remember the name of the defendant? (8) [8] Q: Do you remember who the expert witness was in any of A: It's a name like Eiger or Eisner or a name that [9] (10) those cases against you or on the opposite side, more [10] began with an E, but that's all I remember. [11] correctly? Q: Now, Doctor, are you an attorney? [11] A: Not specifically, no. A No. [12] [12] Q: Oh. Do you remember, Doctor, Roger Barkin being an Q: Have you ever written anything involving what is, in [13] [13] expert witness in a case involving meningitis in which you were fact, legal issues or principles that was published? [14] [14] an expert on the opposite side? [15] A: Well, I wrote an article in which I introduced in a [15] A: No, not specifically. There was a case in North [16] very brief way some of the legal aspects of medical malpractice [16] Carolina in wtuch the issue of merungus was, I think, at the [17] as an introduction to or a review of the influence of [17] core of the case, and I'm trying to recall whether Dr. Barkin [18] [18] antibiotics on serious infections in children and adults. was involved in that case or not, but he may have been. I [19] Q: And did you do any legal research to determine what [19] don'tremember specifically. [20] [20] the legal aspects were that you were writing about? Q: Do you remember any case in which, on the opposite [21] [21] A Some. (22) side of you, Dr. Barkin was an expert in addition to the one Q: And did what you wrote reflect what your [22] [23] you just described? understanding was of those legal principles? [23] A: Not in a case of meningitis, no. [24] [24] A: Yes. Q: Any case. I said. Q: And do they reflect accurately and honestly your [25] [25]

[1]

(41

[9]

[22]	Q: Do you remember the name of the lawyer?	[22] this question the last time - have you ever written
[23]	A: Yes, Jonathan Reis.	[23] specifically on what "correlation" means?
[24]	Q: In St. Louis?	A: I have not written about correlation as an isolated
[25]	A: Yes.	[25] issue.
	Page 255	Page 257
[1]	Q: Doctor, with regard to the papers you have written,	
[2]	have you ever written any article that, in fact, suggested that	
[3]	a patient in whom there was a suspicion of meningitis or	
[4]	bacterial meningitis has a possibility that the giving of	
[5]	antibiotics should be withheld?	
[6]	A: No.	
[7]	Q : Have you ever seen that written or published	
[8]	anywhere in any work of recognized authority?	
[9]	A: Yes.	
(10]	O: To withhold the antibiotics?	
[11]	A: Yes.	
[12]	Q: Where have you seen it written?	[12] Q : The way you used it in the article was the way you
[13]	A: There was a publication in the New England Journal	[13] used it in the article for your analysis?
	of Medicine in which an investigation of the effects of	'
	corticosteroids on meningitis was disclosed, and the suggestion	
	that came out of that artlcle was that one should purposely	[16] correlation in describing my findings.
	delay the use of antibiotics until the corticosteroids could be	[17] Q : And Doctor, for purposes of this case, do you use a
	given and have their effect in place before the antibiotics	[is] different definition of "correlation"?
[19]	were given.	[19] A: No.
[20]	In other places, there have been articles regarding	[20] Q: For purposes of any of your subsequent articles, do
	the timing of antibiotics in children who are critically ill ,	
	and the outcome of that particular set of recommendations was	
	that antibiotics were not emergency drugs and that	
	stabilization of a patient was more important than giving the	
[25]	antibiotic.	

[10]

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A gain I don't believe I defined "correlation" in	[1] A: Yes.
[1] A Again, I don't believe I defined contration in [2] that article, but I used "correlation" in a way that was	
[3] appropriate for the article.	[2] Q: What page is it you described the kinds of things [3] you meant by it?
Q: Now. Doctor, in one of your articles you describe	[4] A: 696.
[5] three groups of patients. I'm referring <i>to</i> the article	\mathbf{O} . Is that in the might as because \mathbf{O}
(6) involving duration of symptoms and outcome in bacterial	[6] A: Yes.
[7] meningitis. Do you have that in front of you?	
⁽⁸⁾ A : Yes. I do.	 [7] Q: After footnote 41? Is that the part that says for [8] the final subgroup, those were clinically overt nonfulminant
[9] Q: That particular article, Doctor - in it there are	[9] meningitis?
io] basically three categories that are referenced or referred to	10] A: No.
in of patients.	11] Q: Where <i>is</i> it that you're referring to?
A: In that article, based on what I found during my	12] A: Well, it's in the same paragraph, ten lines down
13) research and analysis, I defined three groups of patients with	13] from the beginning of the paragraph in the line beginning,
4) bacterial meningitis based on the syndrome of meningitis which	14] "Clinicallyovert menmgitis."
15) each of them had.	15] Q: All right. Clinically overt meningitis, then,
Q: So those three groups, Doctor - what I'd like to	¹⁶ examples, stupor.coma, seizures, nuchal rigidity, bulging
7] ask you to do is this. If I'm not incorrect, isn't it true	17 fontanelle;right?
18] that one of them is the fulminating kind; right?	[18] A. Correct.
19] A: Fulminant, yes.	Q: Now, those were what you used as an example;
20] Q: Correct?	[20] correct?
21] A: Fulminant, yes.	[21] A: Correct.
22) Q: All right?	Q : Were there others that you didn't put in there,
23] A: Fulminant, yes.	[23] Doctor, or is that an exhaustive list?
24] Q: Right.Fulminant.	A: It's not an exhaustive list of words to try to
A: Yes. Not fulminating, but fulminant.	[25] describe that 'kind of patient. I could have used other words.
Page 259	Page 261
[1] Q: Fulminant.And another one, Doctor, is where the	[1] Q : What other words could you have used that you did
[2] disease is less than three to five days?	(2) not?
[3] A: No, the second category is made up of those patients	[3] A: Meaningfully depressed level of consciousness
[4] in whom the diagnosis of meningitis was made preceded by	[4] without other explanation. I could have used that phrase.
[5] general and nonspecific symptoms for less than three to five	[5] Q: Depressed?
(6) days.	[6] A Depressed or altered.
[7] Q: Preceded by –	[7] Q: Or altered level of consciousness –
(B) MR. GOLDBERG: Would you read that back, please?	[8] A Without another explanation.
[9] (The record was read by the reporter.)	[9] Q: Anything else?
[10] MR. GOLDBERG: <i>Thank</i> you.	[io] A: One can include altered mental status and clinical
THE REPORTER: You're weicome.	[11] septicemia or shock. One could include certain cranial nerve
Q: And the last category, Doctor?	[12] abnormalities, such as unequal pupils , crosseyedness,
A: The last category was clinically overt meningitis.	[13] paralysis, things of that sort.
 [14] Or I may have used the word "clinically apparent meningitis [15] Q: Now, Doctor, in the context of this article, 	[14] Q: Have you gwen me all of the descriptions?
(15) <i>Q</i> : Now, Doctor, in the context of this article, (16) clinically overt – was this a phrase that, in the writing of	[15] A: Well, I'm trying to think of others that I might
[17] this article, you coined yourself?	[is] have used, but -
[18] A: Yes.	[17] Q: Take your time. I'm just trying - I don't see you,
• Do you make reference anywhere in the article that	[18] Doctor, so I don't know when you're finished or when you're [19] thinking. So just , say, give me a word, or "I'm done," so I
·····	
20) that was a D \mathbf{D} \mathbf{T} as volu coined and a description volumere using 7	 [20] don't interrupt you. [21] A: All right. Could have used the word "opisthotonus,"
	TEM A. AST LIGHT, COULD HAVE USED THE WOLD ODISTROTOTIUS.
A: I didn't use any notation to say that it was a	
22) phrase that I had used for my own purposes, no. But I did	[22] arching of the back. Those are all the words that occur to me
A: I didn't use any notation to say that it was a	

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 [1] that would fall within clinically overt merungitis. your [2] definition, would you agree that these are those which in other [3] texts, articles and journals. may be described and defined as [4] late marufestations of meningitis? 	 MS. McDONALD: Without other explanation? A: Well, you understand, sir, I put down those words as mere examples, not to put down an exhausuve hst The article itself is not about how to diagnose meningitis It's an
 [14] symptoms? [15] A: No. [16] Q: What are they? [17] A: They're signs. [18] Q: These are signs; right? What are symptoms? [19] A: Symptoms are pieces of historical mformation [20] related to the clinician. [21] Q: Give me an example. What are symptoms of [22] meningitis, bacterial or otherwise? [23] A: Well. a symptom would be something Like a parent [24] saying, "Johnny cries every time I pick him up." That would be 	 [5] article trying to mvestlgate the issue of the timing of [6] antibiotics and outcome Had I been writing an article about [7] meningitis, I would have given more specific attention to the [8] use of words and descriptions. All I sought to do here was to [9] give people that idea of what I meant by clinically overt [10] meningitis Since I was writing for a medically sophisticated [11] audience. I felt that examples such as the ones included there [12] were sufficient for that purpose [13] Q: And the one that should be also considered by the [14] sophisticated audience, but which are not written, would [15] include meaningfully depressed or altered level of [16] consciousness without any other explanation; correct? [17] A: Again, in one form or another Maybe not that [18] parucular phrase, but in one form or another, that kind of [19] thing would occur to the audience reading this partlcular [20] arucle, yes [21] Q: Looking at the first paragraph, Doctor, on page 694, [22] is it correct today that bacterial meningitis still is the most [23] destructive of acute infections m normal individuals? [24] A: Yes
[25] a symptom.	[25] Q: And Doctor, in that second paragraph where you
Page263 [1] Q: Any others, Doctor? [2] A: Well. you know, the list can go on and on, but the [3] idea is that they're describing behaviors or things that [4] they're seeing to the clinician without putting a particular [5] name on it. For example. 'Johnny won't wake up." [6] You examine Johnny, and you say, "Johnny's in [7] coma."	 [1] write, halfway into the paragraph, "However, the question of [2] whether a delay in initiating antimicrobial therapy actually [3] increases the risk of sequelae has not been answered." Is that [4] true today, as well? [5] A: No. [6] Q: It is not true today?
 [8] It's historical observations or experiences related [9] to the chcian. [10] Q: Is irritable, fretful, restless, the kind of things [11] that could fall within symptoms? 	 [8] Q: How has it been answered? [9] A: It was answered in my article and the subsequent [10] studies that validated the article.
 [12] A: They are symptoms, but they're nonspecific and [13] general symptoms. [14] Q: But are they nevertheless symptoms that could be [15] reported historically with a parent who has a child later [16] diagnosed as having meningitis? 	 Q: So this paper validates that? A: This paper answers the question, and the conclusions of this paper have subsequently been validated. Q: What papers specifically validate the question that is posited here, Doctor? A: The two that you have in your possession, sir.
 [17] A: Yes. [18] Q: Now. Doctor, in this particular article that we've [19] got in front of us, is it your opinion that anyone reading it (20) would be expected to assume the categories or additional (21) examples that you have given me that should be added to (22) describe clinically overt? (23) A: Yes. (24) Q: And would you agree that a meaningfully depressed or 	 [17] Q: Tell me which two those are. [18] A: Those are the 1993 article from the Pediatric [19] Infectious Disease Journal. [20] Q: Their numbers, Doctor? [21] A: Well, I don't have them in front of me. As you [22] know, sir, you didn't fax them to me. [23] Q: Oh, the two that you don't have at all. [24] A: That's correct.
[25] altered level of consciousness would be an important category?	[25] Q: "The effect of a recent previous visit to a

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[1] physician on outcome after childhood bacterial menmgitis"?	
[2] A: Yes.	
(3) Q: That's one paper that you're referring to?And the	
[4] other paper, "Outcomes of bacterial meningitis in children, a	
(5) meta-analysis";correct?	
[6] A: No.	
(7) Q: Huh?	
[a] A: No, I don't believe that's the paper at all.It's	
[9] the 1993 paper by Kilpi. if I'm nor mistaken, as the lead	
[io] author, about duration -	
(11) Q: I don't have any other arucies other than the ones	
(12) we've just gone through. I was given and I have marked them,	
[13] 10, 11, 12, 13, 14, Doctor. Where is the article by Kilpi that	
[14] you're referring to, then?	
[15] A: I thought I had sent it off to Ms.McDonald, a 1993	
[16] article in the Pediatric Infectious Disease Journal.	
[17] Q: Do you have it there?	
[18] A: No, I don't.	
(19) Q: By Kilpi?	
[20] A: I believe so.	
[21] Q: Spellit, please.	
[22] A: I believe it's K-EL-P-I.	
[23] Q: I don't have it here, Doctor.	
[24] A: Let me see if the exact reference is included in my	
[25] 1994 article. Yes. If you'll look at the article that I	
Page 267	
[1] published in 1994, the timing of antimicrobial therapy.	
[2] Q : One second. Doctor. I'm trying to get this - yes,	
[3] sir.	
[4] A: If you look at references 12 and 13 .	
[5] Q: Footnotes, are you referring to?	
[6] A: No. references at the end.	
[7] Q: Yes, the references. 12 and 13?	
[8] A: Right. That's actually one study published in two	
[9] segments, and the segment I'm referring to is segment or	1
[10] reference 13, by Kilpi.	[10] for it.
[11] Q : Do you have that arucle with you now?	[11] Q : Have you ever, Doctor, taken any steps to write to
[12] A: No, I don't. I thought I had sent it to Ms.	[12] the publisher or to amend in any way that article to include or
[13] McDonald. If I didn't, the error was mine and I'lt send it	[13] change in the fashion you described?
[14] later in the day.	
[15] Q : Would you be good enough, Doctor – I asked that all	
[16] the articles that you relied on or that you believe support	
[17] your position would be forwarded, and if it was inadvertent one	
[18] way or the other, as long as I have it, it's fine. But I'll	
[19] read what I have in front of me, okay?	
[20] A: That would be fine.	
[21] Q : Number 13,Kilpi, T., and then it has another name,	
[22] Anttila, M. Kallio, and the arucle's name is "Length of	
[23] prediagnostic history related to the course and sequelae of	
[24] childhood bacterial menmgitis," Pediatric Infectious Disease	
[25] Journal, 1993.12/1, 84 through 88?	

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A: I learned that from textbooks and arttcles on	[1]	Q: What were the drugs and what were the purposes of
	[2] t	he study?
\mathbf{Q} : So there are textbooks and articles dealing with	[3]	A: The study, as I recall was part of an overall
thts very type of subject, aren't there?	[4] E	ffort to more clearly delineate meningitis in many aspects
A: No. Well. there are articles. Actually, there are	[5] t	hat was coordinated through the University of Helsinki and
textbooks dealing with what is meant by strength of an	[6] 1	nvolved all pediatric centers in Finland It was collected
association.	[7] I	prospecuvely, out of which a number of papers have been
Q: Are you a stattstician?	[8] I	pubhshed, that one bemg an example of such a paper
] A : No.	[9]	Q: And am I to understand that you are relying upon
Q: Now, Doctor, with regard to the various studies.		his paper to support the position you are taking?
they are described in here in the article that were analyzed;	(11)	A: Correct
correct!	ı[†2]	Q: Is there any other paper, other than the Kilpi paper
A: Correct.		and the other Kilpi paper. Exhibit 14. that we've marked, that
		supports.in your opmon, your position?
	[15]	A : Well, there's the other paper from the same group
_		published in 1994, and those are the two validating papers for
·		the results which I reached in my paper of 1992
A. Vec		Q : What is the paper in 1994? Where is that footnote
	[[18]	or reference?
A: The study was published in 1993.	1	A: Well, you have a copy of it
Q : But is the data for that paper on the basis of new	[20] [21]	Q: You're talking again about 'The effect of a recent
studies either retrospective or prospective?	1	previous visit to a physician on outcome after childhood
• • •		bacterial meningitis"?
	:4]	A: Correct.
 Q: When were those studies done? A: I'd have to review the article to give you an 	.41 !5]	Q: And you have that paper there, do you not, Doctor?
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1] accurate answer.	[1]	A: No, I do not.
2] Q: You don't remember?	[2]	Q: I'm sorry, that's right. Forgive me. Doctor, I'm
aj A : No.		going to read to you from that paper, article 14, and ask
Q: How many people are the subject of those studies?	[4]	whether you agree with this statement as being correct.
A: I'll have to review the article to $g_{1}ve$ you an	[5]	A: I would prefer a copy of the paper, sir, before
accurate answer.	[6]	doing that. You said you would fax it to me.
Q: The answer is you don't know; correct?	[7]	Q: I appreciate that, but I'm going to read to it to
e] A: Yes, that's correct. sir.	[e]	save time anyway, and you'll be faxed a copy.
Q : Who is Dr. Kilpi?	[9]	"No clinician would intentionally defer prompt
A: He's a physician in Finland.		diagnosis and treatment of bacterial meningitis, but
Q: Have you done any research with him directly?		occasionally a child in whom bacterial meningitis has not yet
2] A: No.		developed or become clinically detectable will be sent home.
		When recommending home treatment of a febrile child, the
Q: Did you have the raw data that he used that is the		
Q: Did you have the raw data that he used that is the	[4]	physician should never forget to advise the patient to bring
 Q: Did you have the raw data that he used that is the subject of this article or study? A: No. 	(4) (5)	the child back immediately if the child's condition worsens or
 Q: Did you have the raw data that he used that is the subject of this article or study? A: No. Q: Westite retragregative or presentative study? 	(4) (5)	the child back immediately if the child's condition worsens or does not improve within a given time."
 Q: Did you have the raw data that he used that is the subject of this article or study? A: No. Q: Was it a retrospective or prospective study? A: Prospective. 	(4) (5) (6)	the child back immediately if the child's condition worsens or does not improve within a given time." If I have read it correctly, is that a correct
 Q: Did you have the raw data that he used that is the subject of this article or study? A: No. Q: Was it a retrospective or prospective study? A: Prospective. B: Did you see the protocol that was used for the 	(4) (5) (6)	the child back immediately if the child's condition worsens or does not improve within a given time." If I have read it correctly, is that a correct statement you would agree with?
 Q: Did you have the raw data that he used that is the 4] subject of this article or study? 5] A: No. 6] Q: Was it a retrospective or prospective study? 7] A: Prospective. 8] Q: Did you see the protocol that was used for the 	(4) (5) (6)	the child back immediately if the child's condition worsens or does not improve within a given time." If I have read it correctly, is that a correct
 Q: Did you have the raw data that he used that is the subject of this article or study? A: No. Q: Was it a retrospective or prospective study? A: Prospective. Q: Did you see the protocol that was used for the p prospective study? A: No. 	(4) (5) (6) (7) (8)	the child back immediately if the child's condition worsens or does not improve within a given time." If I have read it correctly, is that a correct statement you would agree with?
 Q: Did you have the raw data that he used that is the 4) subject of this article or study? 5) A: No. 6] Q: Was it a retrospective or prospective study? 77 A: Prospective. 8] Q: Did you see the protocol that was used for the 99 prospective study? 01 A: No. 02 Do you know if there was one? 	(4) (5) (6) (7) (8) (9)	 the child back immediately if the child's condition worsens or does not improve within a given time." If I have read it correctly, is that a correct statement you would agree with? A: I would agree with that.
 Q: Did you have the raw data that he used that is the subject of this article or study? A: No. Q: Was it a retrospective or prospective study? A: Prospective. Q: Did you see the protocol that was used for the p prospective study? A: No. Q: Do you know if there was one? A: Well, endute the event shot it was described in 	(4) (5) (6) (7) (8) (9) 20)	 the child back immediately if the child's condition worsens or does not improve within a given time." If I have read it correctly, is that a correct statement you would agree with? A: I would agree with that. Q: Yes?
 Q: Did you have the raw data that he used that is the subject of this article or study? A: No. Q: Was it a retrospective or prospective study? A: Prospective. Q: Did you see the protocol that was used for the prospective study? A: No. Q: Do you know if there was one? A: Well. only to the extent chat it was described in 	 (4) (5) (6) (7) (8) (9) 20) 21) 22) 	 the child back immediately if the child's condition worsens or does not improve within a given time." If I have read it correctly, is that a correct statement you would agree with? A: I would agree with that. Q: Yes? A: Yes.
 Q: Did you have the raw data that he used that is the subject of this article or study? A: No. Q: Was it a retrospective or prospective study? A: Prospective. Q: Did you see the protocol that was used for the prospective study? A: No. Q: A: No. Q: Do you know if there was one? 	 (4) (5) (6) (7) (8) (9) 20) 21) 22) 23) 	 the child back immediately if the child's condition worsens or does not improve within a given time." If I have read it correctly, is that a correct statement you would agree with? A: I would agree with that. Q: Yes? A: Yes. Q: Let's take five minutes. The court reporter has

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(i) get your faxes together. It's five to 12:00. It's Eve to	[1] studies that were the subject of this review examine only the
[2] 11:00 where you are. Let me go farther and we'll take a	; [2] durauon of symptoms and not the duration of meningitis?
[3] break.	[3] A: That's correct.
[4] Can you do this, Doctor? The Kilpi article that	[4] Q : And do you agree with what's written here, "And
[5] you're referring to - you say it's at your office. How far is	(5) experience suggests that onset of general symptoms is likely to
[6] your office from where we are. or you are now?	[6] be a poor approximation of the onset of meningitis itself?
[7] A: About half an hour.	[7] A : Yes.
(B) MR. GOLDBERG: Yeah?And Ms. Court Reporter. I	[8] Q: Now, Doctor, is it correct that, getting back to
[9] gave you items 1 through 15 - or rather 10 through 15 today,	[9] these categories that you were talking about, can we refer to
[io] right?	[10] them as 1,2 and 3?
THE REPORTER: Yes, sir.	A: I don't know what 1.2 and 3 refer to.
[12] MR. GOLDBERG: And 15, just to be sure. was 'The	\mathbf{Q} : Well, I'll give them to you in the way that you went
(13) outcomes of bacterial meningitis in children, a meta-analysis";	[13] through them. One was less than three to five days with
[14] correct?	[14] general nonspecific signs.
(A discussion was held off the record.)	[15] A: I thirk it's general and nonspecific symptoms.
[is] Q: We'll leave it at 17. You have the errata sheet	[16] Q: Symptoms. And symptoms in the context of what you
[17] there. so you'll send me the errata sheet, which is 16, and I	[17] defined symptoms to mean a little while ago;right?
[re] will send you copies of 14 and 15. And we'll get back to you	[18] A: Correct.
[19] within the next ten minutes.	[19] Q: So symptoms in that context is different than signs;
A: Do we have your fax number?	[20] correct?
Q: I'm going to give it to you now. Thank you.	[21] A: Correct.
(22) (A recess was taken.)	
[23] Q : Doctor?	[22] Q: And, Doctor, the second one is fulminant; right? [23] We'll use 2 as fulminant?
[24] A: Yes, sir.	[24] A: That's fine.
[25] Q: Are you ready to proceed?	Q: The third one will be clinically overt meningitis;
[1] A: Yes.	5 Page 2 [1] correct?
Q: Okay. I'm going to proceed, and reserve my right on	[2] A That's fine.
[3] Exhibit 17. As I said, we're going to proceed, however. And	
[5] Exhibit 177451 sud, we re going to proceed, now eventuite	
 [4] Exhibit 16 Ms. McDonald and I don't have, so we'll go on from 	Q: And clinically overt meningttis is one that has given by the signs in keeping with what you so far today testified;all
	 [3] Q: And clinically overt meningttis is one that has [4] signs in keeping with what you so far today testified;all
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city of Unicago, et al	vol. 2, February 8, 1990
Page278 Page278 <t< th=""><th>Page 280 [1] whether the patlent who has these symptoms wffl, in fact, be [2] diagnosed as having merungus? [3] A: Not to my knowledge [4] Q: So that there are patients in whom these general and [5] nonspecific symptoms - one of two things may happen They may [6] get meningitis or not get meningitis, in the context of our [7] discussion, correct' [8] A: Well, actually, one of three things can happen [9] They can go on to get merungits, they can go on to develop [10] another focal illness, or they may get better on their own [11] Q: But in the context of menungits, Doctor, what I'm [12] merely trying to stav with is, these general and nonspecific [13] symptoms may never materialize mto merungus in that pauent [14] who has the symptoms, or it may go on to be merungus, [15] correct? [16] A: Correct [17] Q: With that in mind, is there any way to - have you [8] seen any study that relates or tries to relate these [9] generalized and nonspecific symptoms as to what percentage of [9] children go on to get meningitis? [1] A: No. [2] Q: If that be the case, Doctor, that you can't take and</th></t<>	Page 280 [1] whether the patlent who has these symptoms wffl, in fact, be [2] diagnosed as having merungus? [3] A: Not to my knowledge [4] Q: So that there are patients in whom these general and [5] nonspecific symptoms - one of two things may happen They may [6] get meningitis or not get meningitis, in the context of our [7] discussion, correct' [8] A: Well, actually, one of three things can happen [9] They can go on to get merungits, they can go on to develop [10] another focal illness, or they may get better on their own [11] Q: But in the context of menungits, Doctor, what I'm [12] merely trying to stav with is, these general and nonspecific [13] symptoms may never materialize mto merungus in that pauent [14] who has the symptoms, or it may go on to be merungus, [15] correct? [16] A: Correct [17] Q: With that in mind, is there any way to - have you [8] seen any study that relates or tries to relate these [9] generalized and nonspecific symptoms as to what percentage of [9] children go on to get meningitis? [1] A: No. [2] Q: If that be the case, Doctor, that you can't take and
[23] signs may go on to be confirmed as having meningtis?[24] A: I don't exactly understand your question.	23] predict whether these chddren wffl or will not go on to get24] meningitis, would you agree that where these general and
[25] Q: There's two separate items that I'm lookmg at and	251 nonspecific symptoms exist, one at least would be alerted to
Page 279 you're looking at, I know, at least one. You're looking as to whether the outcome will be whether the individual has a certain clinical picture: correct? A: In my analysis, I looked at outcome to mean permanent neurological injury following meningitis. 	 [1] the fact that such a patient may end up with meningitis? [2] A Yes. [3] Q: With regard, Doctor, to those symptoms, using the [4] definition you have given me, what are the symptoms from all [5] the records that you have reviewed and the histories that you
 [6] Q: Permanent central nervous system damage of one type [7] oranother? [E] A: That's correct. And I include death in that [9] category. [10] Q: Okay. That's what you mean by "outcome";right? [11] A: Yes. [12] Q: And that's how you're using whether or not these 	 [6] personally have been involved with that were present to a [7] historian - being a nurse, a doctor, or a combination of the [8] two - in a patient who later was diagnosed as having symptoms [9] had? 10] A: I didn't understand that at all. 11] Q: In a patient who is subsequently diagnosed with 12] meningtis, from your own experience directly, what are the
[13] general and nonspecific signs are there three to five days;[14] right?	13] symptoms that were told to either the doctor or the nurse, or14] both, before it was diagnosed?

[15] A: Yes. They're symptoms that are there for less than[16] three to five days.

- Q: And my question is, is there any correlation or any
- [18] way to know whether those symptoms may, in fact, be at the time(19] meningitis, leaving aside the predictability of outcome by your
- [20] definition?
- (21) A: Well, as we've already stated and I think you
- [22] even read out the poruon of my arucle that refers to it in
- [23] general, the duration of symptoms does not allow one to predict
- [24] when meningitis begms
- [25] Q: But does it have to do with anything with predicting

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[22]

[21] can run the gamut.

(21) Page 278 - Page 281

A: Well, the universe of symptoms that are related

16] prior to the diagnosis of meningitis being made are all the

17] ones that we talked about. They can be nonspecific symptoms,

(8) general symptoms of the sort that we've discussed, or they can

19] be very specific symptoms which relate directly to clinically

20) overt meningitis when the child is subsequently seen. So it

Q: Well, I'm glad you said it that way, because it

[24] symptoms may, in fact, later turn out to, in the same patient

[25] that has these, have what you have described as clinically

(23) makes it easier for me. Is it correct that these specific

Page282	Page 2
1) overt signs?	[1] to perform a spinal tap, which may or may not confirm the
2] A: Yes.	[2] diagnosis of meningitis. If it confirms the diagnosis of
3] Q: Yes?	[3] meningitis, then there was a congruence between the physical
A: That a chdd - you'll get hstorical information	[4] appearance, the clinical judgment, and the biological fact. If
5] from a family, and you may conduct an examination, and based on	[5] it refutes the diagnosis of meningitis, then the child still
6) your examination, you conclude the child has Clinically overt	[6] had the same clinical appearance and the judgment of the
7) memgitis.	chcian was the same, but it was not confirmed.
8] Q: Well, Doctor, I want to stay with the symptoms and	[8] Q: Now, doesn't that nevertheless mean, Doctor. that in
9) the signs. The symptoms that you earlier described and	[9] a pauent - if the doctor doesn't see the signs or symptoms,
of defied.stupor, coma.seizures, nuchal rigidity, bulgmg	[10] if a doctor doesn't see it or misdiagnoses what's present,
1] fontanelle.meaningfully altered - depressed or altered level	[11] Doctor, just as the tree falling in the forest has to be heard,
2) of consciousness, that whole litany. Are you with me?	[12] is the question that's been posited, is it the doctor seeing
3) A: Sure.	[13] the signs and symptoms that then cause him to do the test and
4] Q: Those are things that I take it may occur in the	[14] confirm it. that means diagnosis of meningitis is present? Or
5] normal progression of this disease as the disease process	[15] is it that there's a disease process in reality in the human
6) develops?	[16] body that is there that means the patient has meningitis?
7) A: No. I wouldn't use the word "progression," sir.	[17] Which is it?
a) Q: You would not?	A: I'm sorry, sir. I got lost. The physician wffl not
9] A: No.	[19] perform a spinal tap unless they feel that the person
Q: Doctor, is there a pomt at which you consider	[20] potentially has meningitis.
meningitis medically to be in existence in any given patient?	Q: I appreciate that, Doctor.
A: Well. the absolute answer to your question is,	[22] A: Now, people can have meningtis without seeing a
meningitis is in existence when the spinal tap tells you so.	[23] physician. They can have meningitis with a physician not
Q : I appreciate that. But what I'm trying to do,	[24] seeing the overt signs of meningitis and therefore not
25] Doctor, is something a little more exact. Before the spinal	[25] performing the spinal tap. One can have a spinal – one can
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[2] medically have memgitis; correct?

A: A child can have clinically overt meningtis prior 131

(4) to a spinal tap being performed.

Q: You choose to use the phrase "clinically overt (5)

[6] meningitis" and I don't. I'm askmg you whether a patlent,

even such as MarkTurner, to be even more exact, if you were to [7] [8] have done the spinal tap five seconds sooner, before the spinal tap, would you say that Mark medically had in truth had [9]

merungitis? [10]

A: Well, it is my opinion that a spinal tap performed (+1)

five seconds earlier also would have been diagnostic of [12]

meningitis, and I presume that five seconds earlier the same [13]

physical findings which led the physicians to perform the [14]

spinal tap would have been there. [15]

Q: What I'm trying to then differentiate, Doctor, in a [16 very exact way, is this. However long before the spinal tap is [17] done, you're saying that the physical findings which led the [18] person to perform the spinal tap would be there. Is it your [19] [20] opinion that those signs are what makes meningitis be in existence, or some pathophysiological process in the body [21] (22) taking place?

A: What I'm saying is this: A patient has the physical [23] findings whtch suggest meningitis, clinically overt (24) 25] meningitis. That's a c h c a l judgment. One is then obligated [12] it. It's important when does the patient medically have the [13] problem, irrespective of someone knowing it?

A: Once the patient has the clinical findings, which a [14] [15] physician could see and make the clinical diagnosis of [16] meningitis, if he were to be there, that's when the patient had [17] clinically apparent meningitis.

Q: I understand that, Doctor. I'm right with you, and [18] [19] I fully understand it. But that's not what I'm talking about. A: Then I'm sorry, I'm -[<u>120</u>]

[21]

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A: Well. we had this discussion last time, and I think (1)

[2] you II recall that my own viewpoint is that biological

(3) merungitis. if one would like to use that phrase, 18 present

(4) when there are the combination at the same time of bacteria and

[5] an inflammatory response to the bacteria.

Q: Okay. So what I was lust asking you about, you [6]

(7) would define biologic menungitis being present with those criteria being met? [8]

(9) A: That's correct.

Q: Okay And Doctor, have you ever, in books such as [io]

[11] Feigin and Cherry, Dr. Klein's articles or literature,

[12] recogruzed arucies in Pediatrics, Pediatric infectious

[13] Disease - have you ever seen a definition of merungitis

(14) indicating that when the pathogen, whichever offending organism

[15] it may he, invades the meninges, as being the time when they [16] say the patlent has meningitis?

A: I don't recall that specifically. (17]

Q: And if I were to read to you from articles that said [18]

[19] it from recognized authorities that you define as well known, [20] would you agree or disagree with their works on that pomt?

[21] A: Well, I think you now know what my own viewpoint is (22) on that, and to the extent that someone does not reflect that [23] viewpoint, I would not be in concurrence. But of course, these [24] are definitionalitems whch have no clinical significance, and (25) therefore, it's not a subject on whch a large amount of energy

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[1] is spent trying to clarify or contend with.

Q: Okay That being the case, and going on with my [2] [3] point, I would like you to do thts for me, please. I want you (4) in a hypothetical model of a patient. otherwise normal human [5] being, six months of age, with all the characteristics from [6] birth of MarkTurner. hypothetically assume a patient in fact at six months develops biologic meningitis. Are you with me?

A: Sure. (8)

Q: And I mean at the very moment of creation, if you [9]

[10] will. The very moment of inception of the seeding of the

[11] meninges. Are you with me? There is such a time in reality, [12] isn't there?

A: I don't know, sir. [13]

Q: Well, are you suggesting that there isn't a time [14]

when the pathogen mvades the meninges? (15]

A: Well, I think we discussed this last time. [16]

"Invasion" is not the right word. [17]

Q: What would you like to use? [18]

A: And "seeding" is not the right word. [19]

Q: What is the phrase or word you would personally like [20] (21) to use?

A: The uuth seems to be that bacteria enter the spinal [22]

[23] fluid space, and I would presume in a theoretical way, which

1241 has no clinical significance, there is a moment in which the

[25] first bacteria appears in the spinal fluid space.

- Q: All right. Let's stay with that. When that takes [1]
- place, is that when biologic merungitis is in existence? [2]
- A: No [3]
- Q: When is it? [4]

A: It's when you have the combined presence of the [5]

(6) bacteria along with an inflammatory reaction. Q: All right. Now, is there any time period that you [7]

can cite me to, any article, journal, any text, that suggests [8]

- or hypothesizes or confirms how long after that first bug, if [9]
- you will, is in place in the fluid before this presence of an [10]
- inflammatory response will take place? Are we talking seconds. [11]

minutes, hours. days, week, months. years?What? [12]

Hello? [13]

A: I'm trying to think of an answer to your question. [14]

Q: I'm sorry. I couldn't tell if we were disconnected, [15]

[16] Doctor. There was a silence. I'm sorry.

A: I'll try and breathe heavily mto the microphone so [17] [18] you'll know I'm here.

Q: I just didn't know if you were there or what's gomg [19] [20] on.

A: I don't think that that mformation is available, [21]

- [22] but I'll tell you what is available.
- Q: What is?Wait a second. What I have just asked
- 14] you, you have no opinion on, because you don't think that

information is available; correct?

A: Well, I'm going to let you know what is available. [1]

O: What is available? [2]

- [3] A: There's no human mformation.obviously.
- Q. Yes [4]

A: From animal studies, what is known is that there are [5]

animals who will have the entry of bacteria into the spinal [6]

[7] fluid space, will clear the bacteria from the spinal fluid

- space, and will never become ill, and will never develop [8]
- meningitis. That is known. [9]
- It is known that the speed with which the 101
- inflammatory reaction occurs following the presence of bacteria
- 12) in the spinal fluid space differs from animal to animal, and
- that that difference can be a difference of hours to days. But 131
- the distribution of that inflammatory reaction over time and 141
- the outer limits of that distribution are not known. 15]
- **Q**: Now, if I understand what I have read, both by you 16]
- 17] and others on this point, you cannot accurately take animal
- 18] studies and predict how they will be in humans.
- A: There are appropriate cautions in trying to apply 191
- animal data to humans, depending on what the data are and what 201
- 21] the question asked is.
- Q: Okay. 22]
- A: Sometimes it can be applied quite well. Sometimes 23]
- 24] it cannot be applied at all. Sometimes if it's all that you
- 25] have, you need to incorporate what is known from animals into

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(1) an overall opinion in human beings for lack of anything else to	[1] Q: Do you have any opimon as to when the pathogen
(2) base an opinion on.	(2) entered the spinal fluid. Hemophdus influenzae type B entered
[3] Q: What 18 the animal , Doctor, that for the purposes of	[3] the spinal fluid?
[4] what we're talking about is useful? Is it the monkey, is it	[4] A: Idonotknow.
[5] the pig? Is it the mouse?What is it?	Q: Doctor, in carrying forward, in a patient in whom
(6) A: It's the rhesus monkey.	(6) biologic menmgitis is present. do you have any opmion as to
Q: It is, isn't it? And the rhesus monkey would be the	[7] how long it would be before that patient would experience
[8] closest that you could come up with. right?	[8] things - I'm talking about a child six months of age - that
[9] A: Yes.	, [9] to a parent or to a physician or a nurse, symptoms to the
[10] Q: Is the rhesus monkey, in your opinion, one that you	[10] seeing and learned eye would appear? Or would that also be
11] can take data from it and apply it to human beings, in your	[11] variable and something which you couldn'tbe specific on?
[12] opmion?	[12] A I don't know the answer to the question.
A: It depends on what the data are and it depends what	[13] Q: Is there such a thing, Doctor. as a patlent in whom
14] the quesuon is.	[14] biologic meningitis is in existence from the moment that it
Q: Is there any data on merungitis and when it, in	[15] occurs, and then however long it takes for the inflammation to
fact.biologically occurs and how long it will be before	appear, that could go on to that process taking place and
inflammation rakes place on rhesus monkeys?	[[17] giving rise to death in which there would be no symptoms or
[18] A: Yes.	[18] signs to seeing learned, responsible caretakers who are
Q: How long does it take place?	[19] watching from second to second?Could it be silent?
A: The answer to your question is the answer [just I	[20] A: Well, now, you understand there are two kinds of
gave a moment ago. The answer I gave a moment ago is derived	[21] findings. There are general and nonspecific findings on the
[22] from rhesus monkey studies.	[22] one hand, and then there are those that are indicative of
Q: But you didn't say this. So what you were referring	[23] clinically overt meningitis on the other hand. I assume -
[24] to is the data from the rhesus monkey studies; right?	[24] well, I'm convinced that the person would have some general and
[25] A: That's correct.	[25] nonspecific signs of illness, but I am assuming, without any

[1] Q: And Doctor. therefore, it can be different from

(2) animal to animal and from hours to days, and the outcome could
(3) be - no one knows the outer limit; right? As you said it?

- [4] A: What I said is what I said, yes.
- [5] Q: In that context, Doctor, in the hypothetical person

[6] that I was asking you to describe, a person of Mark'sage, when

- [7] I asked you, once the pathogen was in the spinal fluid, how
- [8] long before an inflammation would take place, I take it are you
- [9] t e h g me, therefore. as you sit here now, you have no opinion
- [i0] how long before the inflammation would take in a patient such

(11] as MarkTurner after the pathogen's in the spinal fluid? You

[12] have no opinion one way or the other?

[13] A: I don't think an opinion could be expressed with any[14] accuracy.

[15] Q: So it wouldn't be reasonably certain? Is that what

- [16] you're saymg?
- [17] **A:** That'scorrect.

Q: Do you have an opmion, based on a reasonable
medical surgical probability in Mark'scase how much time it
was after that first biological moment when the pathogen
entered the spmal fluid, occurred, until the inflammation
occurred?

[23] **A:** No. Again, I don't thick that that can be known to [24] the point that someone can testify to it with a reasonable [25] degree of probability. [16] overt signs would more probably than not follow the general and[17] nonspecific symptoms?

[18] A Yes, but the interval between the two of them must
[19] differ from person to person.

- [20] Q: Do you have any opinion as to why the symptoms,
- [21] general and nonspecific within the definitions we've used, the

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Page 294	Page 296
(1) A: The signs of clinically overt meningitis depend on	[1] about in the deposition? I mean does biologic sense mean in
[2] biological processes that usually follow the induction of fever	[2] this article, in that paragraph, the same thing you mean,
[3] in a patient, and inasmuch as fever is a general and	[3] biologic sense in the way we're talking about it now?
[4] nonspecific finding, it would precede any of the more	
[5] characteristic signs associated with meningitis.	
[6] Q: Do you have an opinion as to what it is about fever	
[7] In that what it permits, or does that have anything to do with	
(8) the development of meningtis taking place?	[7] A: In certain areas, it's all one has But it may be
A. I don't baliage forcer itself and your on the other	[8] false.
[9] A: I don't beneve rever itsen, one way of the other, [10] aids or abets the process of merungitls occurring.	(9) Q: Or it may be correct
	[10] A: That's correct
[11] Q: Why. then, does fever appear, nevertheless, in the	[11] Q: And Doctor, in thts article on page 695, it says,
[12] context of your last answer?	[12] 'To many, the application of biologic sense seems persuasive
 [13] A: Because fever is a general nonspecific biological [14] response to the interaction between bacteria and white cells, 	[13] 'There does occur in clinical medicine a feeling for the
· · ·	[14] biology of the system, the geschstalt that the longer a disease
[15] and as such, that interaction would precede the formation of	[15] goes on, the more severe it is and the more severe the
[16] enough inflammation to cause the person to have signs that	'[16] sequelae'"
(17) indicate meningitis.	[17] And I'm now going to end the quote of what $I'm$
[18] Q: Is it your opuuon. and have you ever read or	18] quoting from the article. Is that the kind of biologcal sense
[19] written on this point. that one generally would look to when a	you're referring to, Doctor, a geschstalt that physicians come
[20] patient spiked a fever to try to determine when it was that the	20] to have with experience and knowledge?
[21] pathogen entered the menunges or the spmal fluid?	A: Well, it is in the context of the article. What you
[22] A: I have never written that.	and I were just discussing was much more detailed than an
[23] Q: Have you ever seen it written?	23] intuitive feeling or a biological geschstalt. We were actually
[24] A: I don't remember seemg it written, but it's an	24] trying to put together a scenario based on biology as to how
[25] untrue statement.	25] things actually happened. It's more detailed than just a
Page 295	 Page 297
[1] Q: It is?What is the true statement as to why the	[1] general feeling.
[2] fever occurs in relation to this process?	Q: Well, dropping down, Doctor, it says, 'The argument
[3] A: The true statement is that fever is present prior to	[3] to support this intuition includes the knowledge that a large
[4] the appearance of clinical meningitis, but that a fever spike,	[4] quantity of organisms or antigens in the initial cerebral
[5] per se, or the onset of fever is not necessarily a marker of	
	¹⁵¹ spinal fluid appears to correlate with a worse outcome in
(6) when the central nervous system inflammation takes place.	[5] spinal fluid appears to correlate with a worse outcome in [6] bacterial meningitis." You see that, Doctor?
 (6) when the central nervous system inflammation takes place. (7) Q: Is it a marker when bacteremia takes place? Have 	[6] bacterial meningitis." You see that, Doctor?
•	[6] bacterial meningitis." You see that, Doctor?[7] A: Yes.
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[1] detected immunologically.	Page 300
	[1] pathogen is on a one-to-one basis. or does the body just call
 Q: And do you agree with this statement biologically being correct that I have lust read in this paragraph? 	[2] the army to come regardless of the number of bacteria that are
	(3) recogmed as foreign?
	, [4] A: It's mainly the latter, that there is a general
	(5) response. but the greater amount of organism, the more intense
 [6] G: And Doctor, the next sentence, "Also delayed [7] sterilization of cerebral spinal fluid after 24 hours"?You 	[6] the response. Within the speed of response it is unique to the
(b) see that?	individual. So that every individual seems to have - and this
[9] A: Yes.	[a] is true in animals - seems to have a speed of response and a
Δ With the second se	(9) vigor of response. Given that unique characteristic of the
 (10) G: what would one be able to do with that fluid / what (11) would you do that you can get the response in 24 hours? 	[10] individual working within that, it is accelerated even more by
A: I'm sorrv,I don't understand the question.	[11] the presence of large amounts of bacteria.
O. What does this sefer to that has been does 9Did	[12] Q: Would it then be true and is that what this is
[13] Q: what does this refer to that has been done / Did [14] they take a spmal tap after 24 hours to see whether or not the	[13] saying, that it is better and we know that if you can get it
[15] medication caused a sterdization?	[14] before it has more numbers of organisms, you have a better
[16] A: That's correct.	[IS] chance of having less inflammation?[16] A: Well. if you'll read the next paragraph. that exact
[17] Q: You <i>see</i> in the next sentence it says, "Cerebral	A: Well if you'll read the next paragraph. that exact
[18] spinal fluid that remains culture-positive at 24 hours"?	^{[[17]} Issue is addressed. That is the final link in the chain of [[] [18] logic that is not proven, unfortunately.
[19] A: I see the sentence, yes.	· ·
^[10] Q: Dropping down to the last four, five sentences of	 Q: Does this article in this paragraph say it would make biologic sense, then, that initially a larger number of
[21] this same column and paragraph – or let me go back to the last	[21] organisms would result in more inflammation and that the
[22] fill paragraph on this column, page 695. You see it reads,	[22] greater the inflammation, the worse the vascular damage and
[23] The pathophysiology of meningitis underscores the central	[23] ultimate outcome?
[24] role of inflammation in the production of clinical illness and	24) A: It says that, but the only two articles that exist
[25] in the vessel damage that precedes ischemic brain necrosis."	25) that look at that issue actually disagree with that biological
Page 299	1 490 501
 Do you agree with that statement? A: Yes. 	[1] sense. So here's an instance in which biological sense is
	[2] probably not true.
[3] Q: Is that in a biologic sense, Doctor, that you made[4] that statement?	[3] Q: Based on two articles.
[5] A: No. There are human data whch support that.	[4] A: Well, that's all one has to go on.
[6] Q: What is that which supports that, Doctor!	 [5] Q: So your basis for saying biological sense is correct [6] are the two articles that are, I thirk the only articles -
 A: The greater the inflammation and the earlier the 	[6] are the two articles in at are, I think ne only articles – [7] are the - the two articles I don't have, that author Kallio?
(8) inflammation takes place in the clinical illness, the worse the	[8] Is that what you're talking about?
(9) outcome and that is known from human experiments – or from	
[10] human experience, excuse me.	 [9] A No, it's the article by - one article is by Wilson ID] and the other article is by Feldman. Also the studies in the
[11] Q: The greater the inflammation and the what, Doctor?	N) rhesus monkey did not demonstrate that.
A: And the earlier that the inflammation proceeds in	(12) Q: which article is the one by Wilson?Where is that?
[13] the clinical illness, the worse the outcome.	(3) In the material you have given me?
[14] Q: What causes the inflammation in that instance.	[4] A No, it is reference 36 in my article.
[15] Doctor?	[S] Q : And which one is Feldman?
(16) A: The inflammation is caused by the body's response to	A: Reference 39. And the rhesus monkey study was
(17) the presence of the bacteria.	7] reference 40.
(18) Q: And is it on a one-to-one basis?	Q: Doctor, would you turn to the summary?
(19) A: No. It is dependent on two factors. One is the	19] A: Sure.
(20) number of bacteria, but more importantly, it is the unique	20] Q: In the summary, Doctor, you wrote, and it was
speed and vigor of the inflammatory response that a given	1] published, 'The prompt diagnosis and therapy of bacterial
[22] individual has.	2] meningitis remain enduring clinical challenges, for no
[23] Q: What I'm asking is this, Doctor. And maybe you do	[3] physician would normally delay appropriate therapy." Is that
[24] not know this. But does the body's defense mechanisms cause	(4) correct?
white cells to come to the area of where the recognized	[25] A: Yes.

Page 302 Q: You also on the next page, 697. have written. "For [1] paper, and the other two articles that you cited me to by Dr. $\{1\}$ severe" - and I have a punch here, Doctor. What's the word [2] Kallio and the other one, that I have given the number 17, have [2] (3) after "severe"? [3] made such an analysis using all of the available data? A: "Infections." [4] A: Well, references 36, 39, and 40 were articles which [4] Q: "For severe infections. the inexorable damage of [5] did not investigate this area. [5] [6] untreated disease is presumed and antimicrobials properly are Q: They did not? [6] [7] given without hesitation"; is that correct? [7] A: No. A: That's what I wrote. [8] Q: Is that correct? [8] Q: And dropping down in that paragraph, you then write A: That's correct. The two articles you referred to. [9] [9] [10] in that last sentence, "Although legal and medical implications [io] the one by Kallio and the one by Kilpi. generated specific [11] may be contained in such an analysis, its relevance to any study data which confirms what I wrote in this article, and [12] particular clinical case is only retrospective"; that's [12] those were, I think. the best possible study that is allowable, (13) correct? [13] given the fact that you're dealing with human beings with A: That's correct. [14] severe mfections. (14] **Q:** What's that mean? Q: That being the case - and I understand what you [15] 11151 A: It means that despite the truth of what's written in said - going back to this instance. 'To judge responsibly the (16) [17] this article and subsequently confirmed, it does not alter the [17] strength of a causative link, all available scientific evidence obligation that a physician has to treat promptly bacterial (18]must be analyzed by established criteria." Have you or these [19] meningitis 1191 other articles used established criteria to establish a link? Q: And that is your opuuon as to the obligation the A: I certainly used established criteria in mine, and (20) [20] [21] physician has; right? the analysis of the data presented in the other two articles, [21] A: Yes, it is. [22] [22] Kilpi and Kallio, also used established techniques. Q: And that was true in 1970, as well? Q: Did they used the established criteria? [23] [23] [24] A: Yes, it was. A: Yes, they used established criteria. [24] Q: 1971? [25] Q: What is the established criteria you opine in your [25]

[2]

[11] correct?

A: It's actually based only on a biological inference f12] [13] for which there is absolutely no clinical proof.

- Q: The best you have; right? [14]
- A: It's all I have is the biological argument. I have [15]
- [16] nothing yet to gainsay it.
- Q: And Doctor, on that same page, going to the [17]
- [18] paragraph that I was reading from, the top part, you see
- [19] there's a sentence that says, 'To judge responsibly the
- [20] strength of a causative link, all available scientific evidence
- [21] must be analyzed by established criteria." Do you see that?

[[11] does it say in writing the conclusion you have given in this [12] deposition?

- A: I'm confused in the question, sir. [13]
- **Q**: Where does this article say in writing that in your [14]
- [15] opinion with a patient who falls in category 1, there is no
- [16] effect as to when the antibiotics would be given that you're
- [17] hypothecating in this case regarding MarkTurner? Where does
- [18] it say that it wouldn't have any outcome or
- A: What I said in my article is that the timing of the [19]
- [20] dosing of antibiotics does not correlate with outcome when the
- [21] syndrome is one of less than three to Eve days of general and

Page 306	Page 308
[1] The turning of the dosing does not correlate with outcome. Does	(1) of the pauent.
[2] that mean - in any way are you suggesting that in some	[2] Q : Does the giving of the antibiotic make a difference?
 (3) patients the giving of the antibiotic may not. nevertheless, (4) prevent or reduce source or permanent central periods system 	(3) A : Yes. Without giving the antibiotics, the disease is
[4] prevent or reduce severe or permanent central nervous system	[4] 96 percent fatal.
[5] damage?	[5] Q: So are there patients, then, that the timing that
(6) A: Well, that's why I divided it up into three	[6] you give it may, in fact. make a difference, and in some
[7] different groups, sir, because my readmg of the biological	[7] pauents when you give it, it won't make a difference?
[8] argument for which there is no countervalling experience is	[8] A: I didn't understand the question.
(9) that if there's an inappropriate delay in clinically overt	[9] Q: Well, Doctor. you're saying that the timing does not
[10] menmgitis, then that delay would influence outcome. That's	[10] make a difference, but the giving of the medication does;
[11] why I divided up the syndromes into different types.	[11] correct?
[12] Q: But I want to stay with the question, Doctor. that	A: You asked me about does giving antibiotics at all
[13] I'm positing Are you suggesting by the statement m category	13] make a difference, and I said yes, because without antibiotics,
[14] 1 that the turning of the dosing does not correlate with	14] the disease was 96 percent fatal.
[15] outcome, i.e., there being permanent central nervous system	Q: So what I'm asking you, Doctor, is this. If the
[16] damage, that that means that in all patients that you in fact	16] giving of the antibiotics is and does make a difference and if
[17] give the medication, it will not be again beneficial in any way	17] you are of the opinion that in clinically overt meningitis,
1181 to prevent that harm?	18] inappropriate delays in commencing therapy incrementally
[19] A: No, that's not what I'm saymg.	19] increases the risk of permanent injury, isn't it also true that
[20] Q: That isn't what you mean, is it?	20] inappropriate delay in commencing therapy in the patients in
[21] A: No, that's not what I'm saying.	21] category 1 would also, as to some of those patients.
[22] Q: And as a matter of fact, in patients in category 1,	22] incrementally increase the risk of permanent injury?
[23] you cannot prove as to whether and when the timing will or will	23] A: Well, that's a tautology, because you used the words
[24] not help that patient, but there are clearly certain patients	24] "inappropriate delay." In other words, in your question is
[25] in whom, in that category, they may be benefited by the giving	25] already included the bias that the antibiotic should have been
Page 307	Date 200
(1) of the medication; correct?	Page 309 [1] given at an earlier point and they were inappropriately
[2] A: No. That's not what I'm saying.	(1) given at an entrier point and only were imppropriately(2) withheld, and therefore, it would influence outcome. I would
[3] Q: You're not saying that? Are you saying that in	[3] agree that if in the context of an illness antibiotics are
[4] category 1, Doctor, that in all of those patients, it doesn't	[4] inappropriately withheld in someone who has a clinical reason
[5] make a difference in any of those patients' outcomes whether or	[5] to get them because the child has clinically overt meningitis,
[6] when the medication is given with any of them?	[6] it does influence the outcome. I would agree with that.
[7] A What I'm saying is that when the medication is gwen	
[8] and it's being given for a purpose, the timing of that giving	 [7] Q: Okay. So what 1 think I understand you to say in [e] the context of the patients in category 1 is that it is your
 [9] of medication in the context of the illness does not correlate 	[9] presumption in this statement itself that patients in category
[io] with outcome. That's what I'm saying.	[9] presumption in this statement user that patients in category $[10]$ 1 who have general and nonspecific signs and symptoms for less
O_{1} " O_{2} module that "in that a subset of a set of the the	[11] than three to five days – that in and of itself is not a
A It many influences the outcome making the outcome	[11] than three to five days – that in and of itself is not a [12] reason to give the antibiotic; correct?
[12] A It means influences the outcome, making the outcome [13] worse or better. It does not correlate.	
	[13] A: One does not give antibiotics for no reason at all.
[14] G : By "correlate," you mean what? Statistically you [15] can t correlate it, that you can't come to a statistical	[14] Q: But are you saying that in that specific category –
[16] association? Is that what you mean, Doctor?	[15] are you presuming that for those patients there is no finding
A No What I mean is it does not influence the	[16] that has been established or demonstrated which would warrant u_{π} the giving of m estiblishing to merely on the basis of general or
[17] A No. what I mean is, it does not influence the [18] outcome.	[17] the giving of an antibiotic, merely on the basis of general or
• What does not influence the outcome? The siving of	[18] nonspecific symptoms? Is that a premise that you're presuming?
	[19] A: I'm honestly not presuming anything. The whole
A. The timing of the antihistics in the context of that	[20] thrust of the article is that someone eventually has a
	[21] diagnosis of meningitis made at a point in time, and
[22] illness does not influence the outcome.	(22) antibiotics are given.
[23] Q: It will not make any difference on the patient	[23] Q : In category 1,Doctor,did those patients at some
(24) themselves in their outcome?	[24] point in time have a diagnosis made of meningitis?
[25] A: The turning does not make a difference in the outcome	[25] A: Yes.

	Page 310	-	Page 31
[1]	Q: Was it after it became clinically overt?		three to six months, there may be subtle signs in these
[2]	A: Yes.		children regarding merungitis, and only subtle signs may be
[3]	Q: So isn tit true, by the categorization you have	[3]	present?
(4)	used. that all patients in category 1 eventually went on to	[4]	
[5]	become mto category 3 with clinically overt signs, by your definition?	1	signs are.
[6]		[6]	Q: Well, the phrase you're not familiar with; correct?
7]	A: Yes.	[7]	A: I do not think that children with menungitis have
8)	Q: And you can't tell me when and if, in any of those patients in category 1, before there were clinically overt	[8]	
9] D)	signs - you can't disprove that they may have. In fact, and in		nonspecific symptoms in an illness in which meningitis is
0) •)			eventually diagnosed, and in retrospect, people may be calling
	truth had biologic merungitis?		these general and nonspecific symptoms subtle. But in
2]	A: No one can know when biological memgitis is	•	actuality, general and nonspecific symptoms are-exactly that,
3]			general and nonspecific for illness, and they do not imply
4)	Q: Right. So that these patients in category 1 may	1	meningitis.
	have biologic meningitis, but no one would know irwithoutthat	[15]	
6]	being done: right?	1	meningitis - strike that. I'll restate it.
7]	A: That's correct.	[17]	
8]	Q: Is that a fair statement?		clinically overt meningeal signs, by your definition? When
9]	A: Yes.		they, in fact, present. or when the observer sees them?
D)	Q: Okay. Let's go on to something else. Doctor. With	[20]	
	regard to the - I'm just getting my notes. Give me a moment.	[21]	business again.
2]		[22]	
3)	(A recess was taken.)		serious. You don't know for how long a period of time - for
4]	Q: With reference to what we were just talking about in		example, using the bulging fontanelle in the record regarding
5	the context of correlation, does correlation mean that it would	[[25]	MarkTurner, you don't know for how long that was present, do
	. Page311		Page 3
1]	affect all the people within the category 1 the same way or not		Page 3
1] 2]	affect all the people within the category 1 the same way or not the same way? Or putting it differently, what do you mean by		you? A: No.
1] 2] 3]	affect all the people within the category 1 the same way or not the same way? Or putting it differently, what do you mean by "correlate"?	[1] [2] [3]	you?A: No.Q: And let's just hypothetically - and this is a
4]	affect all the people within the category 1 the same way or not the same way? Or putting it differently, what do you mean by "correlate"? A: I think I have already tried to explain what I mean	[1] [2] [3]	you? A: No.
4]	affect all the people within the category 1 the same way or not the same way? Or putting it differently, what do you mean by "correlate"?	[1] [2] [3]	you? A: No. Q: And let's just hypothetically - and this is a hypothetical. Are you with me, Doctor?
4] 5]	affect all the people within the category 1 the same way or not the same way? Or putting it differently, what do you mean by "correlate"? A: I think I have already tried to explain what I mean by "correlation."	[1] [2] [3] [4]	 you? A: No. Q: And let's just hypothetically - and this is a hypothetical. Are you with me, Doctor? A: Sure. A: Let's expression is here the property with the property of the pr
4] 5] 6]	affect all the people within the category 1 the same way or not the same way? Or putting it differently, what do you mean by "correlate"?A: I think I have already tried to explain what I mean by "correlation."Q: Does it mean that it will affect all of them the same way or not affect all of them the same way?	[1] [2] [3] [4] [5] [6]	 you? A: No. Q: And let's just hypothetically - and this is a hypothetical. Are you with me, Doctor? A: Sure. A: Let's expression is here the property with the property of the pr
[4] [5] [6]	 affect all the people within the category 1 the same way or not the same way? Or putting it differently, what do you mean by "correlate"? A: I think I have already tried to explain what I mean by "correlation." Q: Does it mean that it will affect all of them the same way or not affect all of them the same way? 	[1] [2] [3] [4] [5] [6]	 you? A: No. Q: And let's just hypothetically - and this is a hypothetical. Are you with me, Doctor? A: Sure. Q: Let's assume it had been present eight hours before it was charted and observed by an observer. All right?
4] 5] 6] 7] 8]	affect all the people within the category 1 the same way or not the same way? Or putting it differently,what do you mean by "correlate"? A: I think I have already tried to explain what I mean by "correlation." Q: Does it mean that it will affect all of them the same way or not affect all of them the same way? A: It means that it will affect everyone the same way unless there is evidence against that.	[1] [2] [3] [4] [5] [6] [7]	 you? A: No. Q: And let's just hypothetically - and this is a hypothetical. Are you with me, Doctor? A: Sure. Q: Let's assume it had been present eight hours before it was charted and observed by an observer. All right? A: okay.
4] 5] 6] 7] 8] 9]	affect all the people within the category 1 the same way or not the same way? Or putting it differently, what do you mean by "correlate"? A: I think I have already tried to explain what I mean by "correlation." Q: Does it mean that it will affect all of them the same way or not affect all of them the same way? A: It means that it will affect everyone the same way unless there is evidence against that. Q: And how does one assess whether there's evidence	[1] [2] [3] [4] [5] [6] [7] [8] [9]	 you? A: No. Q: And let's just hypothetically - and this is a hypothetical. Are you with me, Doctor? A: Sure. Q: Let's assume it had been present eight hours before it was charted and observed by an observer. All right? A: okay. MS. McDONALD: The tender fontanelles or the bulging ones noted later?
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[1] eight hours sooner; correct?	[1] eight hours incrementally would worsen the outcome, but the
[2] A: Yes.	¹ (2) degree of mcrement is not known
(3) Q: What makes it clinically overt - the word "overt"	[3] Q: Thank you
(4) means chat some health care provider is seeing it; correct?	[4] A: Rut of course, in the second case, there's no
[5] A: Correct.	[5] mappropriate delay That's obvious in your hypothetical.
[6] Q: That's part of the definition of clinically overt.	[6] Q: I understand. I understand what you're saymg. So
(7) isn't it?	[7] the difference of when it is appropriate or mappropriate as to
(8) A: That's correct.	[8] a delay would depend upon other circumstances and facts,
(9) Q: So that if we take out the word "overt" and lust	[9] correct?
of talk about clinically - cluucal signs, a sign may be in truth	10] A : Yes.
11) present before it becomes overt by that definition, being a	
^{12]} medical health care provider seeing it; correct?	11] Q: Do you know, Doctor, what the statting was at this 12] hospital at the time in question?
13] A: Correct.	
4 Q: And in that context, Doctor. you would agree that	-
¹⁵ the timetable when something is - a finding is present may	Q: Do you know on any given shift how many physicians
16] have some bearing upon the giving of the antibiotic: correct?	15] there were at the unit thts patient was on the 2nd, 3rd. 4th,
	16] 5th. 6th. 7th or 8th?
	17] A : No.
(inically overt in the way that we've talked about it. Or Low dependent of Depter best 1 ships constill be able to	18] Q: What unit was this patient on on the 7th, doctor?
^{19]} Q: I understand. Doctor, but I think you'll be able to	^{19]} A: What specific unit in the hospital?
follow what I'm saying here, <i>so</i> let's do it this way. I want	20] Q : Yes, sir.
you to assume <i>two</i> patients. At 8:00 in the morning in one	21) A: I don't know.
patient, there is a bulging fontanelle that is seen for the	22] Q: What unit was he on when he frist came into the
23] first time in a six-month-old child with all the signs and	23] hospital?
24) symptoms and history of MarkTurner; all right? But at 8:00	[24] A: I don't know.
a.m., a doctor for the first time comes and sees the bulging	Q: Did he remain in the same unit throughout?
Page 315	Page 31
[1] fontanelle.okay?	
-	Page 3
[1] fontanelle.okay?	Page 3
 [1] fontanelle.okay? [2] A: Okay. [3] Q: And then in hypothetical patient number 2, 	Page 3 [1] A: I don't know for a fact. I assume <i>so</i> . [2] Q: With regard, Doctor, to the nurse/patient ratio, did
 [1] fontanelle.okay? [2] A: Okay. [3] Q: And then in hypothetical patient number 2, [4] everythmgis the same I have described, except that at 	Page 3 [1] A: I don't know for a fact. I assume <i>so</i> . [2] Q: With regard, Doctor, to the nurse/patient ratio, did [3] you assume that it was the same at each day of the - at each
 [1] fontanelle.okay? [2] A: Okay. [3] Q: And then in hypothetical patient number 2, [4] everythmg is the same I have described, except that at [5] midnight there's a bulging fontanelle. Are you with me? 	Page 3 [1] A: I don't know for a fact. I assume so. [2] Q: With regard, Doctor, to the nurse/patient ratio, did [3] you assume that it was the same at each day of the - at each [4] shift of the day?
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[1] Q: I appreciate, Doctor. What I'm trying to do - and	Q: Did you assume that the patient received antibiotics
[2] I'm not trying to argue with you. When you say "minimally,"	[2] for the entire two weeks?
 [3] are you talking about at least once a day, once a shift, what? [4] A: Once a day. 	[3] A: I don't think he had a full two-week course, no. I
-	[4] don't believe he was taking antibiotics at the time of
 [5] Q: Once every 24 hours? [6] A: That's correct. I said minimally. but I don't know 	[5] admission, so the answer is no.
	[6] Q : What was the amount of antibiotics, then, in that
	[7] history that you assumed he was given?How and how long did he
 [8] G: So you don't know, in this case, when or now (9) frequently, if at all the residents made rounds to <i>this</i> 	[8] take it?Was it oral, was it parenteral, was it -
10] patlent: right?	[9] A: It was an oral antibiotic. It was begun <i>two</i> weeks
	[10] prior to admission, and I don't know the duration of time that
	[11] he took it.
	[12] Q : What was the dose?
	[13] A: I don't know.
[14] G: Do you know minimally how frequently the residents[15] were supposed to make progress notes?	[14] Q: Did he take any of them?
A. N. T. T. 191	[15] A: I assume so, but I wasn't there watching him.
	[16] Q: Have you ever heard of partially treated merungitis?
(17) Q: Do you know. Doctor. whether the residents were(18) there weekends any differently than weekdays?	 [17] A: Yes, I have heard of that. [is] Q: What is it?
(19) A: I don't know the staffing patterns, no.	
(20) Q: Weekdays versus weeknights?	A: It's a situation in which a child or a person, not
A: Again. I don't know the staffing patterns.	[20] just a child has meningitis diagnosed who is already on an [21] antibiotic.
[22] Q: Do you know minimally how often an attending was	
[23] expected to be there?	[22] Q: And what effect, if any, may that have insofar as [23] signs and/or symptoms?
A: I thmk Dr. Gotoff suggested that an attending was	[24] A : Well. no one knows for an absolute fact what effect
[25] in the hospital each day and available at any time, but they	[25] it has, because no one knows whether the individual did or did
	Page 32
[1] did not round on each and every patient.	[1] not have meningitis at the time the oral antibiotic was begun.
Q: Mark is not deaf, is he, doctor?	[2] The best that is known about that is that if you look at
[3] A: I do not think there's any evidence that he's deaf,	[3] children who have been on an antibiotic prior to the diagnosis
[4] no.	[4] of meningitis being made, and compare them to children who have
[5] Q: Doctor, in the reference, in the context of	[5] not been on an antibiotic prior to the diagnosis of meningitis
	of not been on an antibiotic prior to the diagnosis of mennights
[6] histories, you read the history at Cook County, Municipal	[6] being made, the duration of illness is longer in the children
[7] Contagious Disease and Rush Pres St. Luke; is that correct?	
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[1] Q: Doctor. I appreciate that. So what I'm asking 15	[1] normal, but at least in my quick review of my notes, I did not
[a] did he have pertussis or pertussis syndrome?Which?	[2] see that diagnosis being made. I'd be happy to look at the
A: The most one can say is that he had pertussis	[3] original records, however.
[4] syndrome because there is no bacteriologic confirmation of	[4] Q: And Doctor, if the doctors at Rush Presbyterian St.
[5] perrussis. If one looks statistically at pertussis syndrome.	[5] Luke were to be of the opiruon that the child at the time they
[6] more likely than not it is due to pertussis. But it was not	[6] saw him had otitis media, you would also disagree with them?
[7] confirmed in this patient. whch does not mean it wasn't	A: No.I would have to look at the physical findings
(8) there. It just wasn'tconfirmed.	[8] that led them to that belief. It wasn't an issue that I
[9] Q: Can you say with a reasonable degree of certainty	[9] addressed directly, because I did not think it was germane to
[10] more likely than not that he did have the pertussis or merely	[10] my analysis. If you'd Like me to address it, I'd be happy to.
[11] had pertussis syndrome?Which?	Q: All right. What I'm just saying - so from your
[12] A: I can say with absolute certainty that he had	[12] viewpoint it was not something you looked at in this case for
[13] pertussis syndrome.it is my opmion he had true pertussis,	[13] purposes of deciding one way or the other; correct?
[14] not based on confirmatory studies in this patient, but what is	[14] A: That's correct.
[15] known about patients who have pertussis syndrome.	[15] Q: And it's not an opinion that you thirk has any
Q: Do you have an opmion whether he had otitis media?	6] bearing, one way or the other. in this case?That he had
[17] A: I have an opmon.	7] otitis media or not. I'm saymg.
[18] Q: What is your opmon?	A: No, whether he had otitis media or not at
[19] A: My opmon is, in retrospect. he did not have otitis	9] Presbyterian St. Luke is not an issue whch I feel bears on the
[20] media.	matters that concern this case.
[21] Q : Did any of the physicians carmg for him indicate in	Q: Well, is it of issue or concern whether he had
[22] their opinions in writing that they thought he had otitis	2] otitis media at Municipal Contagious Disease Hospital?
(23) media?	3) A: No. I don't think it's an issue one way or the
[24] A: Yes.	24) other.
[25] Q : How many and who?	Q: So is it correct you didn't look at this case with
Page 323	
[1] A: Well, Dr. Dellatorre did on the admission, and I [2] believe that most of the subsequent physicians who cared for	[1] that in mind and you have no opinions one way or the other that
(2) beneve that most of the subsequent physicians who carea for(3) the patient assumed that he had had an otitis media.	 (2) you expect to give at the trial? (3) A: No. I have an opinion, but I just don't thirk that
A Did Dr Cotoff diagnage that he had atitic madie?	
 [4] G: Did Dr. Gotoff diagnose that he had offus media? [5] A: To my knowledge, Dr. Gotoff did not make a diagnosis 	[4] the issue is germane to the child's other clinical course. I
[6] one way or the other.	 [5] have an opinion. [6] Q: Doctor, you said at Rush Pres St. Luke you would
	[6] G : Doctor, you said at Kush Pres St. Luke you would [7] Like to look through the physical Endings that led them to
 [7] G: Did you read his deposition? [8] A: I read his deposition. 	[8] believe that; right?
[9] Q: And you'reof the opinion that Dr. Gotoff did not	
[10] opme that this patient had otitis media!	[9] A: No, I think you asked me, sur, did anyone at 10] Presbyterian St. Luke make the diagnosis of ctitis media.
[11] A: No.What you asked me was. did Dr. Gotoff make the	
[12] diagnosis of otitis media, and I said no.	11] Q: That s correct. And you said you would need to look 12] at the physical findings which led them to believe that?
[13] Q: Okay, You read his deposition; right?	
[14] A: Yes.	13] A: Can I linish my sentence, sir? 14] Q: Yes.
[15] Q: Did Dr. Gotoff opine in his deposition whether he	
[16] thought this child at any time had otitis media?	 15] A: What I said was, I do not believe that they 16] themselves made a positive diagnosis of otitis media in their
[17] A: I don't remember.	17] hospital. Now, I did not include that diagnosis having been
(18) Q: You don'tremember?If Dr. Gotoff said it was his	¹⁸ made in the notes that I have off of the original records. If
[19] opmion that the child did have otitis media, you disagree?	¹⁹ that is an issue that you would like me to review, I can look
[20] A: I have a different opinion.	20] at the original records.
[21] Q: Did any of the doctors at Rush Pres St. Luke	 21] Q: What I'm trying to find out is - and I'llask you
[22] diagnose otitis media?	 21] Q. what i in trying to find out is - and i flask you 22] to do that in a moment, Doctor - are you saying that to
[23] A: I don't see evidence that they made a positive	²³ determine whether a child in this case had otitis media, you
[24] diagnosis of otitis media when the child was at Presbyterian	24] have to look at the data that's in the record?
[25] St. Luke. They did note that the tympanic membranes were not	25] A: Yes, of course.
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- (1) G: What are the physical findings in the record that
 (2) you'd be looking for to prove that otitis media was or wasn't
 (3) present?
- [4] **A:** I thmk that the data that I would look at would be
- [5] two. One would be a description of the tymparucmembrane and
- (6) then a description of the natural history of the child's course
- [7] with respect to the possible presence of otitis media.
- [8] Are you still there, sir?
- [9] Q: Yes, sir.
- [10] **A:** When you're quiet, I get nervous.
- [11] Q: I'm sorry. That's what I did with you a moment
- [12] ago. You said you were thinking. I'm writing.
- [13] Doctor, would you tell me of a reason or reasons
- [14] why and what you base it upon you do not believe this
- [15] child at Municipal Contagious Disease Hospital did have otitis[16] media?
- [17] A: Yes. In the description of the ears contained in
- [18] the admission history and physical examination by Dr.
- [19] Dellatorre, the following was found. There was a white mucoid
- [20] discharge, not foul, and the right tympanic membrane was
- [21] injected, mearung red, and the left tympanic membrane was[22] normal.
- [23] Now. in general, merely a red ear does not predict
- [24] the presence of bacteria behind the eardrum and would not[25] qualify for the diagnosis of otitis media.

- [1] Q: Doctor?
- [2] A: Yes. That's what I'm saying. Yes, sir.
- [3] Q: And is that because the doctor didn't write it?
- [4] A: Well, no. He wrote about a mucoid discharge in the
- [5] ear. But that mucoid discharge was cleared on its own after
- [6] two days and I'm not convinced that that was really pus in the
- ear. In the ear canal, excuse me.
- , [8] **Q:** You're not convmced. right?
- [9] A: No, I'm not convmced.
- [10] Q: Did they do anythmg to rule it in or rule it out,
- [11] Doctor?
- A: Well. they did culture the ear discharge.
- [13] Q: And?
- **A:** But I could never find the result of the culture.
- [15] **Q:** You couldn't?
- [16] A: No. I couldn't.
- Q: So let me see if I understand you correctly. Is
- [18] there an order for a culture to be taken of the ear discharge?
- [19] A: Yes.
- [20] Q: What is the date of the order?
- [21] A: The 28th of December.
- [22] Q: Read the order.
- [23] A: It says, "Culture of ear discharge."
- [24] Q: **Is** that what you consider to be an order which
- [25] should be executed and filled?

[13] therapy.

[13] **Q:** Rescinded, yes.

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(1) routine, dit was done, it would become an official part of	[1] A: As you say.
[2] the chart, wouldn't it?	Q: Okay. Now, what is there, Doctor, that would be
[3] A: Normally, yes.	[3] important to know if the discharge is from the middle ear?Why
[4] Q: Normally, yes. Correct?	[4] is that important?
[5] A: That's correct.	, [5] A: Well, presumably, it would have helped them make the
[6] .Q: And you don't have any reason to believe that if it	[6] diagnosis of otitis media.
[7] was done.it wouldn't be reported. do you?	Q: And hypothetically in a patient in that time frame
[8] A: I have no reason to believe that, su	[e] reference that otitis media was diagnosed, what was the
[9] Q: And you don't have any reason to believe, if the	[9] standard treatment for that?
10 doctor ordered it, it wouldn't be done, do you?	A: I would imagine it would have been either
[1] A: I have no reason to believe that, sir.	[11] Amoxicillin or penicillin and sulfa. Excuse me, ampicillin.
Q: And the order was gven for a reason, wasn't it?	[12] because Amoxicillin was not available. Ampicillin orally, or
[13] A: Yes. it was.	i[13] penicillin plus sulfa.
[14] Q: What was the reason, as you opined, that the order	Q: Ampicillin for ten days;correct?
[15] to culture the discharge of the ear was given?	[15] A: Yes.
A: Presumably, it was given for two reasons. One is to	[is] Q: The reason I say ten days, I read your article. You
(17) decide whether, In fact. that discharge had origmated from the	7) wrote an article dealing with the issue of why and how it came
[18] middle ear and was part of a ruptured eardrum: and the second	e] to be that various drugs were given for the duration; right?
[19] was to find out whether there was a causative agent that would	a) A: Only with regard to bacterd meningitis.
[20] have defined the best choice of antibiotics.	Q: Right. But I'm saying you wrote an article about
[21] Q: So that, Doctor, it is true that one of the things	is something related to why and how long drugs are given; right?
(22) that such a culture mght indicate is that it might turn out to	2] A: Yes.
[23] be Hemophilus flu type B; correct?That's a possibility?	Q: Okay. I do read what I get, Doctor. Now, is it
[24] A: Anything is a possibility, It could have grown	[4] your opinion. Doctor, that a culture of the ear that would show
(25) anythmg.But you know, statistically, we know that Hemophilus	25] the HIB organism present would then suggest the giving of -
Page 33	, Page 333
[1] influenzae type B is not a common cause of ear infections, so	[1] you change it to ampicillin for at least ten days; correct?
[2] that would be unlikely.	[2] A: No.As I said, I believe at that time ear
[3] Q: Well, Doctor, I have the literature in front of me	(3) infections were being treated with ampicillin or with
[4] and I'm going to get to that. So you tell me how uncommon you	[4] penicillin plus sulfa.
[5] think it is for HIB to be part of an ear infection associated	[5] Q: Plus sulfa. How long would the ampicillin be
[6] with otitis media.	[6] given? Ten days? At what dosage? How many milligrams per
[7] A: Less than 5 percent.	[7] kilogram?
[8] Q: Isn't it correct, Doctor, it's 5 to 15 percent?	(8) A: The usual recommendations ranged between 30 to 50
[9] A: No. That's Hemophilus mfluenzae. But it's not	[9] milligrams per kilogram.
[10] type B.	Q: With reference, Doctor, to otitis media, can you
[11] Q: All right. So Hemophilus influenzae is 15 percent,	11] rule out that it was not present?
[12] type B is 5 percent; right?	A: No, I'm just trying to express an opinion based on
[13] A: No.I said less than 5 percent.	13] probability.
[14] Q : How much was it. Doctor?	[4] Q: Okay And with regard, Doctor – do you know
[15] A: I'm guessmg, sir. You know, you have the advantage	15] whether, in the discharge diagnosis, otitis media, at
[is] of being on the telephone, lots of learned books all around	16] Contagious Disease Hospital was diagnosed?
[17] you. and <i>so</i> on and <i>so</i> forth. My recollection is -	A: I believe it was included in the discharge
[18] Q: I need some advantage in life.	18] diagnosis.
[19] A: My recollection is that it's rare, <i>so</i> less than 1	Q: May I ask you, Doctor, respectfully, what then you
[20] percent, 1 percent, 2 percent. Very rare.	20] feel you can do and why you feel you're correct and they're
[21] Q: Okay.Now, nevertheless, in the 1 to 2 percent,	21] wrong?
[22] would that be the case that it is in those patients that when	A: Well, you know. they were of two minds, evidently,
[23] it occurs it's 100 percent for them, right?	23] because although they made the diagnosis on the one hand, they
[24] A: As you say, sir.	24] didn't treat it, on the other hand. So they may not have been
 [24] A: As you say, sir. [25] Q: Right? 	iddn't treat it, on the other hand. So they may not have beenentirely convinced that their diagnosis was correct and wanted

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Page 334	Page 336
[1] to have more corroborating information. As it turns out, the	[1] Q : Is it reported in any of the literature in
[2] darned thing went way five or six days later anyway. which is	[2] Pediatrics or infectious Disease or Pediatric Lifectious
(3) all you can hope for even with antibiotics, and therefore. I	[3] Disease, by people that you think are respectable and of
[4] thmk it's really a nonissue.	[4] learning, quoted people, that it is something which there is a
[5] But based on a retrospective review of the look of	[5] statistical association reported in the literature?
(6) the eardrum. of the natural hstory, and the fact that they	 [6] A: I have never seen that proven, sir.
(7) themselves chose not to treat it. my feeling is that more	
[8] likely than not, it was not present.	 [7] Q: I didn'task you if you saw it proven. Have you [8] ever seen it published?
[9] Q: Doctor, did you ever read and have you ever come to	
^[10] learn that otitls media may go from one site, one ear, to the	[9] A: I don'tknow.
	[10] Q: You don't know? Is otitis media, Doctor, something
	[11] which you think requires treatment?
A: Well. I don't think otitis media goes from anywhere	[12] A In general, otitis media is treated. Whether it
[13] to anywhere eise. People can have unilateral or bilateral	[13] requires treatment is another issue, and there's even a
^[14] otitis media. That is true. But nothing sloshes from one	[14] contemporary debate as to whether it requires treatment.
[15] place to another place.	[15] Q: Why is it treated?
[16] Q: I should have used the word "present.'I'm sorry.	[16] A: Because the presumption is - and again, this is one
[17] Can it present in more than one ear?	[17] of those clinical areas in which the clinical actions are based
(18] A: Yes.	[18] on sometimes an incomplete knowledge of a dtsease in human
[19] Q: Can it, Doctor. re-present. occur, with the same	[19] beings - the presumption is that in most cases, the treatment
(20) orgarusm?	[20] enhances the recovery and, therefore, avoids the loss of
[21] A Can you tell when it's re-presenting?	[21] hearing in an ear that is filled with pus, and to some degree
[22] Q: Within days after what appears to be the - in other	[22] secondary infections in and around the ear.
[23] words. Doctor, without examining the middle ear, can you -	But between 60 and 80 percent of otitis media gets
[24] just because you don't find an injected ear or reddened ear,	[24] better without therapy, and there are even new recommendations
[25] can you rule out the presence of otatus media being in	[25] now to alter the duration of therapy or whether otitis media
	-
Page 335 [1] existence?	5 Page 33
A: Vas If someone has a normal tympanic membrane	[3] A: Again, then as now, most clinicians treated official[4] media when they made the diagnosis.
[4] A. Test if someone has a normal tympanic memorale, [5] they do nor have otitis media.	O: Do you know whather these residents had a residents?
Or And in a nation two has atitis madia Destar son	(-)
[6] G. And in a patient who has only media, Doctor, can [7] it recur?	[6] manual, Doctor?
	A: I don't know what they had. sir.
$\begin{bmatrix} \mathbf{\beta} \end{bmatrix} \mathbf{A}: \text{ Oh, yes.}$	[8] Q: I'm switching in a moment, Doctor.Just getting my
(9) Q: Can it recur with the same organism?	[9] notes together, so bear with me.
[10] A : Sure.	[10] A : Well, you don't mind if I go to the bathroom, do
[11] Q: Can it recur with a new or different organism?	[11] you?
(12) A : Sure.	[12] Q: No. Let me ask you. We have been rude. I
^[13] Q: Can it recur within a matter of days?	[13] apologize. What's your thoughts about lunch?
[14] A: Yes.	[14] A : My thoughts are that lunch is a good thing.
[15] Q: And how long have you known that?	[15] MR. GOLDBERG: Well, Ms. Court Reporter, what
[16] A: Forever.	[is] about you?
[17] Q: What relationship is there reported in the	[17] THE REPORTER: I love lunch.
[18] literature, Doctor, between otitis media and HIB meningitis?	[18] (A discussion was held off the record.)
[19] A: None.	[19] Q: Let's do this. Before you leave for lunch, would
[20] Q: None? Does that mean you have made a search of the	[20] you just put in the record, ma ' am Doctor, would you, at
[21] literature and you found that it's never been reported?	[21] least as to the articles that you didn't – and I'm not
[22] A: No. You're asking me, as I sit here - you didn't	[22] suggesting anything wrong, intentionally - that you didn't
[23] ask me in the intervening time to make a search, sir. As you	[23] send to Ms. McDonald that you have in your office – would you
[24] sit here, my opinion, based on the literature that I think is	[24] make sure you get those to Ms. McDonald, and if you could do it
[25] relevant. is there is no association.	[25] today, I'd appreciate it. while the dep is on.But if not,
· · ·	may ready, i a appresiate it. while the dep is on but it not,

Page338	Page 34
[1] just have to reserve my right. if there's nothing in there	[1] the child developed mfectious gastroenteritis.
I think is mportant. I won't resume it. If there is. I'll act	[2] Q : And what do you base that upon?
	[3] A: I base that upon the fact that the child did have a
With that in mind, it's now 2:00 here. Let's resume	4) temperature rise, one; did not have a physical finding which
the deposition to give you adequate tune and go to the	5) provided an alternative explanation, two; was not clinically
washroom, at a quarter to 3:00 our time, quarter to 2:00 your	5) significantly ill, three; and had diarrhea, four.
time.	7] Q: Has diarrhea been associated with otitis media?
(A discussion was held off the record.)	A: No. although children do develop diarrhea in the
(The deposition recessed at 1:00 p.m., and	9] context of mfections sometimes, but not clinically significant
resumed at 2:00 p.m., as follows:)	oj diarrhea.
Q: Back on the record. Doctor. in your notes. Exhibit	1] Q: Was this, in your opinion, clinically significant
4A, my copy of 4B . on page 13, would you turn to it for a	2) diarrhea?
moment. please?	3] A: It was, because they thought so.
A: All right.	Q: Well, tell me something, Doctor. How many bouts of
Q: You have selected notes, date 1/15.	5) diarrhea did she have?
A That's correct.	6] A: I don't know how many bouts of diarrhea she had in
Q: In doing thus, did you write down exactly what was	7] all. There's a progress note from the 4th that said three
in the Rush Pres chart or did you paraphrase?	8] loose stools, and Dr. Gotoff's note says that the child had
A: I tried to write down what was in the chart.	9) diarrhea for two days.
although not necessarily using the abbreviations that were	oy Q: Do you see anything in the record to indicate in
used. I usually try to write out the words, but I did not add	1) writing diarrhea for two days?
anythmg of my own, to my knowledge.	2 A: Yes, Dr. Gotoff said that.
Q: All right. What I'm calling your attention to -	23 Q: I say other than Dr. Gotoff, do you see anything to
you see it says "Summary of the positive findings." Positive	4) indicate that?
) findings?	(5) A: Well, let me review the nursing notes to see if the
Page 339	Page 3
1] A: Yes.	[1] nurses have anything to say about it. The nursing note from
Q: Do you see it says, "TMs, decreased light reflex"?	[2] the 3rd, 6:15 p.m., says "loose stools times four," and that's
A: Yes.	[3] the only nursing note that I see that comments on the quality
Q: What did you assume that to mean?	[4] of the stool.
A: The light reflex is the quality of the reflection of	
the examining light off the tympanic membrane. and one of the	[5] Q: With regard, Doctor, to the 7th, do you find an
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[1] A: In the records?

- (2) Q: Yes, sur
- [3] A: Because I have it on my notes.
- [4] Q: All right. Where is it on your notes?
- [5] **A:** It's *two* entries below the doctor's order on the
- [6] 4th.
- [7] Q: Now. will you turn to the actual laboratory slip?
- [$\boldsymbol{\theta}$] A: This is going to take a moment.
- [9] Q: Please. I can give you the page. It's L42.
- [10] **A.** Yes. it's easy for you because you have it right in
- [11] front of you.
- [12] Q: I'm sorry.
- (13) (A discussion was held off the record.)
- [14] **A:** All right. I have it in front of me.
- [15] Q: Okay. Now, Doctor, you see the staphylococcal
- (16) present, gram negative?
- [17] **A:** Yes, I see it.
- [18] Q: It says H. influenzae type B present: correct?
- [19] A: That's right.
- [20] Q: What was the medium that was used for this culture, [21] Doctor?
- A: Well, I don't know specifically, sir.
- [23] Q: What mediums did you assume, or medium did you [24] assume was used?
- [25] A: Oh, there are a number of liquid media that were

- A: That was the general procedure in those days. To my
- [2] knowledge, no one was directly plating blood onto solid media.
- Q: What time was the specimen received?
- [4] A: There's a stamp on the slip that says 7:45 a.m.,
- [5] January 5.

[1]

- (6) **Q:** 7 what?
- [7] A: 7:45 a.m., January 5, and what is probably the time
- (8) that the blood culture was logged in, but the blood culture(9) itself origmated from the 4th.
- [10] Q: So this indicates to you it was logged in on the
- [11] 5th;right?
- [12] A: That's right.
- [13] Q: At 7:45?
- [14] **A:** That's correct.
- [15] Q: What tune was it drawn?
- [16] A: Having a deposition with you is hke a scavenger
- hunt, trying to find thmgs that you want me to find.

[18] Q: Okay, Doc. I want to make sure you're going to be [19] an A pupil.

- A: I don't know.
- [21] Q: There's nothing in this record to indicate when the

[22] blood was drawn for the culture? Is that what you're saying?

- [23] **A:** It was drawn on the 4th. but I don't know when it [24] was drawn on the 4th.
- **Q:** And you have no idea when that would be, according

- [12] **Q**: Have you ever used a chocolate media?
- [13] A: Not for a primary blood culture, no.
- (15] the 1970s, primarily?
- [16] A: Well, I'm giving you the information as I remember
 [17] it from those days. Solid media, of which chocolate auger is
 [18] an example, was not used for a primary blood culture.
- [19] **Q**: Was **this** a primary blood culture?
- [20] A: Yes, it was.
- [21] Q: How do you know that?
- A: Because it was taken from the patient and put into a
 bottle of blood culture media which is always liquid.
 O: Where does it indicate to you that's what was done

[24] Q: Where does it indicate to you that's what was done [25] there?

- (12) culture would be drawn, and the nursing staff or the physician
- [13] staff or perhaps the one lone laboratory person would put the
- [15] when the microbiology team arrived, theywould log in the blood
- [16] culture and begin the processing.
- [17] Q: Now, would you describe for me that processing step[18] by step?
- [19] A: Well, I can only give you a general description,
- [20] because I don't know the policies and procedures of the
- [21] Municipal Contagious Disease Hospital. But in general. in
- [22] those days, blood cultures were looked at twice a day,
- [23] visually. The technician would look for any haziness or
- [24] opacity of the fluid, any visible growth on the surface, or any
- [25] lysis of the red blood cells. If any of those things were

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[1] present, an aliquot of the blood culture would be plated out on	[1] A: Haziness and opacity are the same thing.
(2) solid media and there would be a direct examination of the	Q: So you use them the same; is that correct?
(3) blood culture material by gram stain under the microscope.	A: Yeah. I mean, haziness is light opacity. Opacity
[4] Following plating out on the solid media, an identification	[4] is heavy haziness.
(5) would take place. and susceptibility testing would be	Q: What's the significance if you see visible growth on
(6) performed.	[6] the surface?
[7] Q: And that generally is how you understood it to be	A: Same thing.
(8) done routinely:correct?	[8] Q: What's the significance if you see lysis?
(9) A: That's correct.	[9] A: Same thing.
(10) Q: Now. why would it be looked - if this doctor	Q: How frequently, Doctor. from your experience. is it
[11] received - we'll assume that you're reading 7:45 on the 5th.	[11] that with a - knowing what the organism was, I mean knowing
[12] a.m., that we're talking about is correct, would it then be	[12] what the end result was that was reported. what's the
(13) done and looked at twice during the next 24 hours?	[13] likelihood of what you would have seen?What do you opine
[14] A: Yeah. I would assume it would have been looked at at	[14] would have been seen?
(15) the time of the log-m. and it would have been looked at some	[15] A: Haziness.
[16] time that later afternoon or early evening.	[16] Q: When?
[17] Q: Now, that's visually looked at; right?	\mathbf{A} : At some point on the 7th.
[18] A: That's correct.	[18] Q : You would expect to see the haziness on the 7th?
[19] Q: And what you're looking for is to see if there's any	A: I believe that's when they first identified the
[20] visible growth on the surface; right?	[20] positive blood culture.
[21] A: You're looking for the three things that I	[21] Q: Is it your opinion that what they identified, the
[22] described.	[22] blood culture, is the organism, or any of these signs being
[23] Q: Haziness, opacity and visible growth on the surface	[23] present?
[24] or lysis?	[24] A: Normally they would have seen the haziness. They
[25] A: That's correct.	[25] would have then taken an aliquot of the broth and examined it
	1

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[1] Q: What would one expect to see in the way - if there
[2] is visible growth on the surface or lysis, what do you actually
[3] see?

[4] **A**: Well, the lysis would be a change in the way that

[5] the culture bottle looked. Normally, in blood cultures, the

[6] blood cells will settle to the bottom of the blood culture.

[7] Above the blood cells will be a clear straw-colored fluid made

[8] up of the serum of the blood and the growth broth. In opacity,

[9] that clearness would be obscured, and you wouldnolongerhave[10] clear fluid, but you'd have hazy fluid. Now, if there was

(11) visible growth, you would oftentimes see colored white \mathbf{r}

^[12] yellow material growing at the interface between the blood

[13] cells and the broth, or on the surface of the broth. And

[14] finally, if there was lysis of red cells, you would have a

(15) uniform reddish appearance to the entire blood culture bottle,(16) rather than the blood/broth interface.

[17] Q: Now, what is the significance - let's take them one
[18] by one. Let's talk about - what's the significance within the
[19] first day and first 24 hours, if you see haziness? What's the
(20) significance?

A: The haziness is a sign of presumptive growth of a

(22) bacteria in the blood culture bottle.

- [23] Q: Have you finished?
- [24] A: Yeah, **I'm**finished.
- (25) Q: What's the significance *if* you see opacity?

[15] **A:** It could be, depending on a number of factors.

[16] **Q: What** are those factors?

[17] **A** The number of bacteria present in the inoculum, the

- [18] presence or absence of antibiotics in the blood, the condition
- [19] of the bacteria given host defenses. In other words, have they
- [20] been so-called stunned, or are they rapidly growing bacteria?
- [21] Those seem to be the factors involved.
- [22] Oh, I'm sorry. The last factor is the size of the
- [23] blood culture sample. In other words, the larger the sample,

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(1)		[1]	Q: And Doctor with regard to this particular organism,
(2)	A: I don't know.	[2]	HIB, was the rapidity or the speed with which it would grow
[3]	Q : Are you able to form an opmion as to whether these	[3]	sufficient to be seen visibly with the naked eye, depending
[4]	orgmsms were stunned?	[4]	upon each of those things you just described?
[5]	A: I don't know.	[5]	A: That's correct.
(SI	Q: Or the presence - there was no presence of	[6]	Q: And without knowing the answers to those things, you
[7]	antibiotic, was there?	[7]	couldn't be more accurate; right?
(8)	A No.	(8)	A: That's correct.
[9]	Q: So that wouldn't be a factor:right?	[9]	Q: Doctor, have you, in fact, ever had a blood culture
(10]	A: Correct.	[io]	ordered where, within less than 24 hours, you visually saw
[11]	Q: And what was the number of inoculum?Was there any	! [11]	evidence of growth on the specimen?
[12]	way to tell?	[[12]	A: Yes.
(13]	A: No.	[13]	Q: Have you ever had that occur with HIB?
[14]	Q: With regard, Doctor, then - how is it. using those	[14]	A: Yes.
[15]	as criteria, that one looking at the petri dish or the specimen	 [15]	Q: What was your explanation for that?
(16]	could see evidence of visible growth?Why or what takes	[16]	A: The explanation was that there were a large number
[17]	place?What is that which actually occurs?	[17]	of bacteria in the initial inoculum and. therefore, the
[18]	A: The visible growth is an interference with the	[18]	interval between inoculum and visible growth was short.
[19]	clarity of the media by bacteria whch have grown in the blood	[19]	Q: Is there any way that you could determine the amount
[20]	culture bottle.	[20]	of inoculum that was in the specimen that was drawn in this
(21)	Q: And when that does occur, describe for me visually	[21]	case?
[22]	what you would expect to see.	[22]	A: No.
[23]	A: You would hold the blood culture bottle up to a	[23]	Q: Is there any way, having and knowing what was in the
[24]	light. Actually, you hold it up to a dark surface with a light	[24]	cerebral spinal fluid on the 7th, the tap that was done, that
[25]	shining through the side of the bottle, and you ask the	[25]	you could use that and determine what was present on the 4th?

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- [1] quesuon. "Is this bottle perfectly clear, or is there any
- [2] haziness to the broth?"
- [3] If the answer 1s haziness, then it's a positive
- [4] blood culture visually, and you begm to process the positive
- [5] culture along the lines that I have suggested.
- [6] Q: Looking at this report, Doctor, that's here, the L42
- [7] which is the time that's stamped 7:46 on the 5th, can you tell
- [8] when, if at all, any of these things were seen or observed one
- ^[9] way or the other. from it alone?
- [10] **A** Well. there's a stamp that's on the right side of
- [11] the slip, which is in a position superimposed on the word
- [12] "reported."
- [13] Q: Right.
- [14] **A:** And it reads, "11:00 a.m.," and I cannot see the [15] date.
- [is] Q: I have **1971,** January 11.0kay?
- [17] **A:** Okay. So it must be that it was reported 10:00 a.m.
- [18] on January 11, and I assume that that was the time in which the
- [19] final identification took place, not the time of the first
- [20] reporting. We know from the progress notes that the positivity
- $\ensuremath{}_{[21]}$ was reported on the 7th. That's the only information I have.
- [22] Q: So you can't be **any** more specific;correct?
- [23] A: That's correct.
- (24) **Q**: Yes?
- (25) A: That's correct.

[17] auger independent of the presence of visible growth. I don't

- [18] know what the procedure was at **this** hospital.
- [19] **Q:** With the first procedure, Doctor, what. in your
- [20] **opinion,** on a probability basis would have occurred?
- [21] A: It would have been a negative gram *stain*.

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[1] accelerated by approximately a day.	[1] puncture would be done. What would make it presumptive HIB?
(2) Q: Why is that?	[2] A: Gram negative pleomorphic rods seen on the gram
[3] A: Because of the fact that you may be able to recover	[3] stain.
[4] small numbers of organisms on the subculture that would not	[4] Q: And how long would it take on a gram stain under the
[5] have given rise to opacity or haziness on the visual	(5) circumstances to determine the presence of pleomorphic rods?
[6] mspecuon.	[6] A: Five minutes, ten minutes.
[7] Q: In the instance. Doctor, where you observed the	[7] Q : And if within five to ten minutes one noted
[8] blood culture specimen within 24 hours to see what you opmed	[8] pleomorphic rods, then you would say a lumbar puncture should
[9] to be growth. all right, did you undertake or order in that	(9) be done: correct?
[10] Instance a spinal tap?	io] A: That's correct.
(11) A: It would depend what the gram stain showed. and it	11] Q : Okay. I take it, Doctor. you have no idea of what
(12) would depend on the clinical condition of the pauent.	12) was seen by the person who did these at any of the times that
(13) Q: If the patient were other than life-threatened	13] were mvolved: correct?
[14] because of any other cause, or there was no - let's restate	14] A: Correct.
(15) that. Strike it.	15] Q : With reference, Doctor. to this child, did this
[16] if there was no contraindication to a lumbar	16] child at any time, in your medical opinion, ever have sepsis?
[17] puncture, did you order one in those patients?	17] A: No
[18] A: As I said, it would depend on the nature of the gram	[18] Q: Is it your medical opinion. Doctor. that he had
[19] stain. In other words, the presumptive diagnosis of the	19] meningitis?
(20) orgarusm.as well as the patient's condition. If the patient	20] A: Yes.
[21] were entirely well and the gram stain suggested that the	Q: Is it your medical opinion that one generally can
[22] orgarusm was a contaminant, then a spinal tap would not be	22) have - strike that. Did this child at some tume become
[23] performed. If the child was entirely well and the gram stain	23) bacteremic?
[24] of the spmal fluid revealed presumptive pneumococcus, then a	24) A: Yes.
[25] spinal tap would not normally be performed. If the child were	Q: Is it your medical opinion, Doctor, this child went
· Page 355	Page 357
	1 age 337

[1] from being bacteremic to then becoming meningitic without [2] having any evidence of sepsis?

- A: Yes. [3]
- **Q:** Define as you're using sepsis. [4]
- A: Sepsis is a child who has bacteremia and is [5]

- [7] examiner, one of serious import.
- Q: Does it require all of the things you just said, [8]
- [9] Doctor?
- [10] A: Yes.
- Q: Have you ever seen and recognized a different [11]

[12] definition for that, for sepsis, Doctor?

- A: Well, you know. there are probably as many [13]
- [14] variations on that definition as there are people who write
- [15] about it. But most people will seize on the two key elements,
- (16) which is bacteremia plus a child who is significantly ill. [17] Q: Was this child, in your opinion, at any time ever [18] seriously or clinically
- [19] A: Yes, he was. but by that time, he had clinical [20] meningitis.
- **Q:** Does the presence of clinical meningitis **rule** out [21]
- (22) there being sepsis?
- [23] A: No. but what happens is that it makes the diagnosis
- [24] of sepsis not a useful diagnosis. Many people will lump them
- [25] together and say meningitis and sepsis. But if one wants to

- ii) sick you would do a spinal tap whether you found out anything [2] from the blood culture or not, anyway.
- 0: Fine. [3]
- A: And finally, if the gram stain showed either [4]
- ¹⁵ presumptive Hemophilusinfluenzae type B or meningococcus, you (6) would perform a spinal tap independent of the child's [7] condition.
- Q: Tell me why you would do it if the child were sick. [8]
- A: Because sick children with fevers, with positive [9]

(10) blood cultures, deserve spinal taps independent of what the

- [11] reading of the gram stain is, because gram stains can be false
- mformation. So you have a sick child now who has a positive (12)
- (13) blood culture of some sort who has a fever. That child
- deserves a spinal tap, period. [14]
- Q: If one such as yourself. when you did it, saw (15]
- visible growth within the first 24 hours and the child was [16]
- sick, would the visualization by you of that culture be a [17]
- [18] positive blood culture?
- A: Yeah. It was a positive blood culture. Whether it [19] was a true positive or a false positive you couldn't tell. But (20) [21] it would be a positive blood culture.

Q: So seemg haziness, opacity, or visible growth or [22] lysis would make it positive? Any one of those? [23]

- A: That's correct. (24)
- Q: Now, you said if it was presumptive HIB, lumbar :251

[6] clinically ill with an illness that is global and is, to the
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[1]	say chcal sepsis in a chdd who ha5 meningitis as well, one	[1]	or death?	-
(2)	would look for other findings more characteristic of sepsis.	[2]	A: That's correct	
[3]	For example, poor perfusion, prolonged capillary refill, cold	[3]	Q: And correlated Does that mean on a statistical	
[4]	extremities, clinical shock.	[4]	basis?	
[5]	Q: Did anyone in the records anywhere, one way or the	, [5]	A: Well, the analysis that I used, as you know, from	
[6]	other.indicate that was done as normal.or does it indicate	[6]	readmg the article, does not mvoke numerical statistics	
[7]	whether it was done or not done, one way or the other, lookmg	[7]	What it looks at is a way of judging causatron or causative	
[8]	for what you just described?	[8]	links between events and outcomes using an epidemiologi	c
(9]	A: Well. there was no specific notation one way or the	[9]	techmque that is used in many other mstances for tlus	
[10]	other for those particular items, but the usual way of doing	[10]	particular purpose	
[11]	these things is to not write down the negative findings. so	[11]	Excuse me. sur I'm not done. In that sense, it s	
[12]	that the absence of any commentary regarding those issues is a	[12]	not statistical for the reason - or in the common use of the	
(13)	sign that they were not present.	[13]	word "statistics," meaning a certain relative risk was not	
[14]	Q: Doctor, in your deposition on page 143 -	[14]	calculated. an odds ratio was not calculated, and the	
[15]	A: Just a moment, sir. Let me find that thing. All	[15]	conclusion was not represented with a quantifiable degree	e of
[16]	right. Go ahead, sir.	[16]	certainty based on a beta value In that sense, statistics	
[17]	Q: Line 10 through 12, "My opiruon is that if	[17]	were not used, but it was a recogmzed epidemiologic tech	mque

- [18] for making the judgment
- [19] Q: Tell me the recognized epidemiologic technque by

Page 359	Page 361
[1] meningitis, does one withhold the giving of the antibiotics on	[1] A: I see If you'll see on page 694, under the
[2] the basis of thinking it won't make a difference?	[2] heading, "Criteria for the assignment of causatron"

[9]

I

[18] antibiotics had been gven at an earlier time for a similar

[19] indication, that the outcome would have been the same?

to

	-
Page 362	Page 364
[1] many more studies in order to try to see if there were a	[1] wavelength, means spread by the blood; is that right?
[2] countervailing argument that could be based on biology alone.	(2) A: That's correct.
[3] I think you and I have already discussed that. And then, of	[3] Q : And therefore, once the bacterema takes place. if
[4] course, I reviewed the animal studies, of which the rhesus	[4] you take a blood culture, you would expect it to be positive
⁽⁵⁾ monkey studies were the most Important.	[5] for the disease; correct?
(6) Q: Would you agree that only 9 percent of the studies	[6] A: That's correct.
[7] that you used. reviewed. met preestablished minimal	[7] Q: Now, Doctor, maybe this sounds different or silly,
[8] experimental design criteria?	[8] but I'm going to ask a question. If one. in dealing with
[9] A: Well. now, you understand that the minimum design	[9] cancer, does a histological slide and takes a piece of it and
[10] criteria was a creation of my own. in which I sought to in some	i ^[10] puts it under the microscope, that parhcular pathological
[11] way judge each arhcle based on the presence of important	[11] slide may or may not have a cancer cell in it; correct?
(12) dormation or analytic techniques.	[12] A: Correct.
[13] Q: That's why I'm asking you.	(13) Q: Is the same thing true with the drawing of the
[14] A: I understand. That was my preface.	i(14) blood?
(15) Q: Okay.	A: The answer is no. It's not the same as drawing of
[16] A: And in the studies that I reviewed, those 22, only 9	16] blood.
[17] percent of the studies actually met all three of the minimum	17] Q: Why?
[18] design criteria that I posited as being important in conducting	A: But I must add to that that a person can be
(19) such studies.	19] bacteremic and have a false negative blood culture mainly
[20] Q: And only 50 percent of them used any statistical	20] because of technical reasons. In other words, too small a
(21) analysis to evaluate results; right?	21] sample was obtained, there was some difficulty in the
[22] A: That's correct.	[22] processing of the specimen, something like that.
[23] Q: And isn't it correct, Doctor, that the four	Q: Leaving aside false negatives or false positives,
[24] concomitant cohort studies that were reviewed found no	[24] leaving those aside for the moment. once there is bacteremia
[24] concomitant cohort studies that were reviewed found no [25] relationship between durahon of symptoms of bacterial	24] leaving those aside for the moment. once there is bacteremia 25] where the HIB organism enters the blood, the MB, once it
	yes where the HIB organism enters the blood, the MB, once it
[25] relationship between durahon of symptoms of bacterial Page 363 [1] meningitis and either hearing deficits or neurological	25] where the HIB organism enters the blood, the MB, once it
 [25] relationship between durahon of symptoms of bacterial Page 363 [1] meningitis and either hearing deficits or neurological [2] sequelae? 	25] where the HIB organism enters the blood, the MB, once it Page 36
 [25] relationship between durahon of symptoms of bacterial Page 363 [1] meningitis and either hearing deficits or neurological [2] sequelae? [3] A: That's correct. The four prospective studies, 	25] where the HIB organism enters the blood, the MB, once it Page 36 [1] enters the blood, Doctor, any drawing of the blood, would you
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[1] whatever organism was in the blood: correct?	[1] Doctor?
[2] A: That's correct.	[2] A I have many thrusts in my article. sir.
[3] Q: Is [here. Doctor. with regard to bacteremia, a	Q: Well. Doctor, in your summary, you have certain
(4) clinical picture of signs and symptoms that are associated with(5) it?	[4] particular statements that you make that you want to bring to[5] the attention of the physician: correct; right?
[6] A: Well. one can have bacteremia without any findings	[6] A: Sounds like you have an infectious disease, Mr.
[7] at all.	[7] Goldberg.
[8] Q: It can be silent;correct?	[8] Q : I do. It's called working too hard and not getting
[9] A: That's correct. In general, the first alteration in	[9] enough sleep.
[10] health in someone who has a bacteremia is fever and the	A: Yeah, I have some summary points which are listed on
[11] bacteremia may only have fever as a footprint of its presence.	[1] page 404 of the article.
[12] Q: Is it kind of like a red flag waving when you have	Q: And among others, Doctor, does one of them say that
[13] fever?	[13] compulsive follow-up provides the only safety net for febrile
[14] A: I call fever a clinical stop sign as you'll see in	[14] children with occult mfection?
[15] the article that you have in your hands.	[15] A That's correct.
(16) Q: Clinical stop sign; right, Doctor?	[16] Q: What does that mean?
(17) A: That's correct. I like that better than "red	[17] A: It means that since all approaches to children with
[18] flag."	[18] fevers are imperfect in a world which itself is imperfect, only
[19] Q: Well, I like "clinical stop sign" better, myself.	[19] keeping in touch with the family and the child's condition over
[20] It's the first time I have ever seen it written. What were you	[20] time provides the safety that one would like to have with
[21] trying to convey by that statement. Doctor?	[21] regard to this issue.
[22] A Well, you know that the article was written for	[22] Q : And in one of the concluding summary remarks it
[23] clinicians who encounter young children with fever as part of	[23] says, "In the end, fever acts as a clinical stop sign,a
[24] their daily practice, and what I tried to suggest is that	[24] warning to stop, look and listen and proceed with caution."
[25] fever, in and of itself, is not dangerous, does not in and of	[25] Correct?
 Page 367	Page 369
[1] itself cause injury, but it can act as a cautionary note in a	[1] A: Yeah, I said that.

- [1] itself cause injury, but it can act as a cautionary note in a
- [2] child so that the cluucian does stop, look, listen and proceed
- A: Yeah, I said that.

[2]

Q: And that's your opinion, isn't it?

- **Q**: And there is a greater association between fever and [16]
- [17] bacteremia and HIB than other meningitics; right?
- A: In general, children who have fever are unlikely to [18]
- [19] have HIB disease. as opposed to other organisms, and most

[16] meningitis, Doctor, **do** not have bulging fontanelle reported or

- [17] associated with it?
- A: Greater than 50 percent. [18]
- **Q:** Do you know exactly how high it is in the [19]

Page 370	Page 372
(1) A: I think that order of magnitude is correct. sur.	[1] involving failure to diagnose meningtis?
[2] Q: Let's go on to the next part of this. Doctor, in	[2] A: No.
[3] one of your arttcles that you wrote, you were talking about	[3] Q: Do you believe that some of those claims are
[4] bacterial meningitis being one of the leading causes of	[4] meritorious?
[5] malpractice: correct? Failure to diagnose that?	[5] A : I don't know from any personal experience. sir.
[6] A: No. I think I suggested that the alleged failure to	[6] Q: You have no opinion one way or the other; is that
[7] diagnose meningitis is one of the leading causes of alleged	[7] correct!
(8) malpractice.	[8] A: I have no way of knowing the totality of the cases
[9] Q: Accepting that as the statement. Doctor, may I ask	[9] brought and the factual situations of each.
(10) where you got that data from?	Q: Do you think, Doctor, that this or any of your
(11) A: The alleged data.	[11] articles and any of your thoughts have been used as a vehicle
[12] Q : I don't see a -	[12] by lawyers in an attempt to defeat causation in a malpractice
[13] A: Right. It was, I believe, a - well, there is a	[13] action?
[14] reference which is reference 5 on the 1994 article, and I	A: Since my 1992 article. sir. is probably the best
[15] believe that the information is derived from that article.	[15] summary and analysis of what was known at that time regarding
[16] Q: I think. Doctor. it cites footnotes reference 1 and	[16] the issue of causatton, and smce those conclusions have been
(17) 2.	[17] validated by subsequent articles, I would hope that it is used
[18] A: Now, I may be looking at a different article than	[18] in order to shed light on the entire question of causation in
[19] YOU, sir.	[19] individual cases.
[20] Q: Okay Well, I'm looking at the one that sites W.O.	[20] Q: Doctor, you believe it's one of the best - let me
[21] Robertson, "Meningitis: Cutting your legal risks." Did you	[21] ask you, other than the two that you cited, can you cite any
(22) read that article?	[22] others?
[23] A: Can you tell me what reference in what article of	[23] A: Any other what, sir?
[24] mine you're referring to?	Q: Articles that support your position.
[25] Q: Article number 14, 'The effect of a recent previous	[25] A: I don't think there has been anything else written

[2]

[3]

[10] Q: Okay And you cite number 5 All right. Now I see

[11] what you're talking about here. D.A. Talan, Guterman,

[12] "Emergency department management of suspected bacterial[13] meningitis, "Annals & Emergency Medicine; right?

- [14] A: Annals of Emergency Medicine; that's correct.
- Q: Did you read that article?
- [16] A: Yes, I did.
- [17] Q: And Doctor, do you know where the underlying[18] dormation from that was obtained?
- [19] A: I don't recall now, no.
- Q: Have you ever been sued, Doctor, for failing to
- [21] diagnose meningitis?
- [22] A: No.
- [23] Q: Have any of your colleagues?
- (24) A: No.

[10] hterature ended up with no sequelae of any kind?

- [11] A: Before answering that, I'm going to look at a copy
- [12] of the Baraff article that I sent to Ms. McDonald.
- [13] **Q:** 83.6 percent. It's the first page, to save you some [14] time.
- [15] A: Referring to page **392**.
- [16] **Q: 389.**
- [17] **A:** Well, I'm referring to page 392 to answer your
- [18] question.
- [19] **Q:** Okay.
- [20] A Table 3, looking at outcomes and percentages, and
- [21] you can see in that table it's broken down by organism. There
- [22] does not seem to be any dormation on the percentage of
- [23] normality of streptococcus pneumonia. 90 percent of children
- [24] with meningococcal meningitis are normal, and 73.9 percent of

Page 374	Page 376
(1) Q: And Doctor, on front of the article, does it	[1] Q: And if it was to be reported $i\pi$ the hterature to be
[2] indicate and state that in 83.6 percent there were no	(2) as high as 9 percent, you would disagree with that?
(3) detectable sequelae?	(3) A: Well, I'd certainly hke to see who gathered that
[4] A: Can you tell me what you're reading from?Oh,	[4] information and what their population was
[5] you're reading from the abstract, are you?	[5] Q: What's your populahon and experience been, Doctor?
[6] Q: I'm reading from the actual footnote or the heading	(6) A: My population and experience has been that it is a
of the article, Doctor.	[7] rare cause of ear infections
[8] A: That's what it savs in the summary but of course,	[8] Q : How many cases that you have diagnosed managed and
[9] If one actually wants to know what an article savs.it's better	[9] treated otitis media were caused by HIB type B, typeable type?
[10] to look at the text of the article, and I thmk table 3 conveys	[10] A: I understand You know, we don't do tympanocentesis
(11) the dormation gathered by Dr. Baraff.	[11] routinely in ear infections, and therefore, the etiology of the
(12) Q: Who is Dr. Baraff?	[12] ear infection in the vast majority of the patients that we see
[13] A: He's a pediatric emergency medicine specialist who	[13] go on to be undiagnosed with respect to the causative agent
[14] works at UCLA Medical Center.	[14] Q: Well while You were at Colorado, did you ever speak
[15] Q: Someone you consider to be recognized in the field?	[15] with or read any works or studies done by Roger Barkin as to
[16] A: He's had a number of publications regarding febrile	[16] what was the percentage of otitus media seen at the various
[17] children. and has collected a large amount of dormation and	[17] centers in the university setting, where otitis media was
[is] has presented it in very cogent form. This is an example of	[18] mvolved, and type HIB, the typeable type, was related to the
[19] such a collection.	[19] otitis media? Was that center reported, that you were at?
[20] Q: Doctor. do you consider the Feigm and Cherry	[20] A Yeah. Again, if you could refer me to the article,
[21] Textbook of Pediatric Infectious Diseases to be one of the	[21] it would certainly help me out
[22] better known and recognized works in the field of infectious	[22] Q: But you don't remember?
[23] disease?	[23] A: I don't remember specifically that arucle, and
[24] A: It's certainly the heaviest.	[24] studies of the causahve agents of ear mfechons must be
Q: Is that by weight, or by the value?	[25] looked at in the aggregate, because the organisms that colonize
Page 37.	5 ' Page 377
(1) A: Well, it weighs the most, costs the most, and has	[1] children and therefore lead to ear mfections can have peculiar
[2] the most words in it.	[2] community differences, \mathbf{so} that one can see a resurgence of a
[3] Q: How about the value of the words?	(3) certain organism in one community that's not reflected in other
[4] A: I think that it's probably the most complete	[4] communities, and it's very treacherous to draw global
5 compendium of information in a textbook form in Pediatric	[5] conclusions based on a single study.
Infactions Discoso	

- Q: Well, Doctor, you're assuming I was referring to a [6] singlestudy.
 - A: As I said, I wasn't inferring anything. I was L (A)
 - [9] making a general statement. What I asked was the particular
 - [10] reference that you were referring to.
 - Q: It would be dangerous to rely on a single study for :[11]
 - [12] that purpose: correct?
 - [13] A: That's correct. One has to look at this information
 - in the aggregate, knowing that there are community differences. [14]
 - Q: And wouldn't you think that would also apply, [[15]
 - [16] Doctor, with diseases other than ditis media?
 - A: Such as what, sir? [17]
 - [18] Q: Meningitis.
 - [19] A: Yes. To some degree, that's true. And that's why
 - [20] if one has information regarding the prevalence of organisms
 - [21] and their relationship to disease in the very community in
 - [22] which a case arises, that's obviously the superior
 - i[23] information. Lacking that, one has to look at more global
 - is to look at one information, but the most treacherous of all is to look at one
 - [25] commuruty and compare it or try to draw conclusions regarding

- [6] Infectious Disease.
- Q: Do you know, Doctor, from your own experience or 171
- [8] from any of that published in the literature, what the
- (9) percentage of H. B. influenzae accounts for otitis media being [10] a causative relationship?
- A: I don't understand the question. (11)
- Q: Have you ever read literature indicating otitis [12]
- [13] media. Doctor, was caused by H. influenzae?
- A Yes, # you look at nontypeable Hemophilus (14)
- [15] influenzae, depending on the study, somewhere between 15 and 25
- [16] percent of cases are caused by that group of organisms.
- Q: How about the typeable, Doctor? [17]
- A Of the typeable ones, they're rare causes of ear (18]
- [19] mfections in general. That's types A through E
- Q: And do you know what percentage of typeable not [20]
- (21) the nontypeable, but typeable Hemophilus influenzae type \mathbf{B}
- are reported to be that whch is related to otitis media?
- (23) A: Again, I believe you asked me this earlier on, and I
- (24) would say less than 5 percent, and maybe even less than 1 [25] percent.

ol. 2, February 8,1996		City of <i>Chicago</i> , et
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another community.	[1]	to make any pronouncement of that.
Q : Can you cite me any article, journal, literature	[2]	Q: You don't?What kind of information would you need
text or study that you have read or done or been involved with	, [3]	for you to believe that such a pronouncement would be correct
dealing with what is reported globally to be the relationship	[4]	A: Someone would have to have made an etiologic
b) percentagewise of otitis media being caused by the HIB typeable b) type?		diagnosis of the cause of the otitis media, and then have subsequent clinical mformation regarding those individuals
A: Gee, if I knew you were going to ask this question.	[7]	with such a disease who remained untreated, as compared to children who were treated, and to calculate a relative risk or
of the top of my head.	ſ	an odds ratio of progression to meningitis to answer the
 Q: Where would you look, Doctor? A: Well, I would probably first go to my files and find 		question.
g out in the published mformation that represent global	[[1]	Q: Do you know if that was done in any of the articles?A I doubt very much whether it has been done.
prevalence rates what is known about it. And if I couldn't	[12]	
	[13]	
		that doctors would not be reasonable and qualified in rendering
	[15]	conclusions as to the relationship of their study?
	[16]	
η And if that wasn'thelpful, I would do a Medline search.		answer questions to a reasonable degree of medical
Q: And Doctor, wouldn't you assume that if Drs. Feigin		probability. And there's no mformation on which I can base
and Cherry wrote an article on the subject itself, that they	[19]	any opinion to try to answer the question that you just asked.
would do what you just described, go to the footnoted articles	[20]	Q: Has it been your experience, Doctor, that in
1] and then come to the more reliable and correct decision,	•	relation to meningitis - influenzae type B we're talking
2) conclusion.before they published?	[22]	about - that signs of meningeal inflammation may be minimal in
A: Well, as you know, Dr. Feigin and Dr. Cherry didn't	[23]	the infant?
4) write every word <i>in</i> their textbook. and I don't know who wrote	[24]	A: If one defines meningeal inflammation and the signs
5] the chapter on otitis media in their textbook, so I would have	[25]	of it to indicate the clinical findings of nuchal rigidity and
Page379		Page 3
1] to actually go look at their newest edition of the textbook in	[1]	other maneuvers to elicit spine pain, the answer is yes.
2) order to answer your question.	[2]	Q: Well, nuchal rigidity, Doctor. is something whch
Q: Whoever wrote it would do that which you just	; [3]	may occur late in the young child? Isn't that true, under
4) descrtbed, wouldn't they, if they were reasonable?	' [4]	those circumstances?
5] A: Again, I'd like to see what mformation they were	[5]	A Late with respect to what, sir?
6) providing and what the sources of that information was.	[6]	Q : Late in terms of the progression of the disease.
Q: Well, let me ask you something, Doctor. Is Dr.		A: Well, I have to disabuse you of all of this early
B Feigin a person who you believe would be qualified to write		and late business, you know. Early and late is really a
about otitis media?	[9]	fabrication of people who try to look at children with general
A: Yes, I believe he'd be qualified.		and nonspecific findings prior to a diagnosis being made, and
Q: How about Dr. Mark W. Wine?		attributing the entire disease to meningitis. That's just
A: Jerome Klein Mark Wine?	-	frankly not true.
Q: I'llget to Jerome Klein in a minute.	[13]	
4) A: You mean K-L-I-N-E?	1	you would say you have a better reason to say they're wrong an
5) Q: Yes, sir.		you're right; correct?
A: Well, he certainly has been trained in pediatric	[16]	
7 mfectious diseases. I'm sure that if he put his mind to it,		well, and I would certainly like to hear the reasons that the
	1	other people have for coming up with their particular scheme.
b) he would be capable of writing an article.	1	
 a) he would be capable of writing an article. b) 9: How about Gerson Specter? 	100	
9] Q: How about Gerson Specter?	[19]	
g Q: How about Gerson Specter? A: I do not know Dr. Specter.	[20]	Fildes for blood cultures - I'm talking about Fildes or
g:Q: How about Gerson Specter?a:I do not know Dr. Specter.1:Q: Doctor, is it your personal experience that	[20] [21]	Fildes for blood cultures - I'm talking about Fildes or Leventhal media -
 q: How about Gerson Specter? A: I do not know Dr. Specter. Q: Doctor, is it your personal experience that z] madequate treatment of otitis media which is caused by H 	[20] [21] [22]	Fildes for blood cultures - I'm talking about Fildes or Leventhal media - A Yes, those are two other media that have been used
g:Q: How about Gerson Specter?a:I do not know Dr. Specter.1:Q: Doctor, is it your personal experience that	[20] [21] [22] [23]	Fildes for blood cultures - I'm talking about Fildes or Leventhal media -

Page382 i Page 384 0: How about a chocolate agar, 1] Q: No At any time up until the 7th, before the [1] (2) A: Again. chocolate agar is not a media whch 15 used [2] hospital.in the hospital, I'm just looking - did he receive a (3) for the primary culturing of blood, but it would be used for [3] DPT inoculation? Vaccmation, excuse me 4] subculture of blood, because it is chocolate agar that 15 agar, A: I don't know for a fact, because I don't remember [4] blood agar whch has been heated. it has H and V factor in it [5] [5] seemg a review of the immunization hstory in the clinic (6) already [6] notes. [7] Q: Now, there have been articles that reported the Q: Did this pauent receive any vaccmahons for M [8] long-term outcome of patients that had bacterial meningitis [8] anything? 9] that were treated. Doctor, besides the ones vou have cited? A: Yes. On the 27th of December the chdd received a [9] A: Yes there have been many arucles of that sort. I [[10] measles immunization. [10] [11] think most of them are referred to in Dr. Baraff's review Q: Do you know why that was given? [[11] (12) article which you have in your hands. A: I don't know for a fact why it was given. I presume [12] Q: Have you ever heard of Dr Sell? 1[13] it was being given because the chdd was going to be admitted [13] A: Yes. Dr Sarah Sell. yes [14] to a contagious disease hospital in which there was measles [14] 0: Is she a recogruzed person in the field of (15] [15] present, and they wanted to try to protect the chdd 16) mfectious disease, Q: Did this child ever develop, in your opmon. or [16] A: She has done follow-up studies on chddren with [17] have measles? [17]

A. A sain she much she down also with record to	[24] A: Five to ten percent.[25] Q: And isn't that fever something which should be known
Page 383 [1] follow-up,yes	Page 385

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Page386 Q: Have you ever heard of Jerome Klein?	-
A: Yes. I have.	[1] in the field of meningitis. But you have to define the
	[2] circumstances in which his expert opinion is being represented [3] in order to know whether Dr. Klein's opinion comports with what
_	
pediatric infectious diseases at Boston City Hospital.	[4] is known and what is accepted and reasonable conclusions.
Q: And is he a recognized member in the field of	[5] Q: Have you ever heard of Dr.John Nelson or Wayne
pediatric mfecuous diseases?	[6] Koontz?
A: He's a recogmzed member in the field yes.	A: I have heard of Dr.John Nelson, and I have not heard of Dr.Koontz.
Q: How would you describe his reputation in the community?	[9] Q: Who is Dr.John Nelson, and what have you heard of [10] that physician?
A: I thmk that most people feel Dr. Klein is a very	
knowledgeable.honorable person who has been doing infectious	[11] A : He's a professor of pediatrics at the University of
disease for many years.	[12] Texas Southwest Medical Center, and he is one of the coeditors [13] of the Pediatric Infectious Disease Journal.
Q: Is he someone you would expect, when he would write	
on a given subject. would footnote and give references to his	-
sites or statements in his arucles?	¹ [15] A: Again, same answer as with Dr. Klein. He's very ¹ [16] respected. He's a very honorable man. He's been doing
A. It depends on the vehicle : which his writings	[17] infectious disease for a long period of time.
appear.	
Q: The vehicle?	[18] Q: How about Dr. Edward Shaw? Did you ever hear of 19] him?
A: That's right. In textbooks, for example. footnotes	
and references are usually absent or very minimal. In review	
articles and primary publications in peer review journals,	
they're usually there in abundance.	22] A: Yes, I have seen the name of Dr. Levin, but I don't23] know in what context.
Q: Do you know whether any of the articles that were	24] Q: Do you think he would be someone that would be a
contained and written by Dr. Klein in textbooks were also the	25] recognized authority involving fevers and bacterial meningitis?
Page 387	
subject of articles initially that were published in peer	[1] A: I don't know the context in which I know Dr. Levin's
review journals?	[2] name, and therefore, I cannot answer your question.
A: I don't know. because I don't know what you're	[3] Q: Do you know, Doctor, or have you read anything that
referring to in Dr. Klein's bibliography.	[4] would indicate what the policies were in 1968, 1969, 1970, and
Q: Well, would you expect a lot of times that people don't like to reinvent the wheel and if they write a good	[5] 1971 with the Municipal Contagious Disease Hospital?
arucle, they mght use it as a chapter in a book, as well?	[6] A : Policies with respect to what, sir?
	[7] Q: What they would do on their initial workups.
A: Typically they don't, because the format is entirely	[8] A I do not know anything about the policies and
j different between a published article, on the one hand , and a j textbook chapter, on the other.	(9) procedures at that hospital.
On the Druke in a summer of the target and the second starting the second starting in the second starting is the second starting of the second starting star	10] Q: If you were to be shown information concerning what
	<i>i</i> 1] their policies were regarding, in fact, this case at the time
	12) in question, you would take that into consideration if it was
	13) from a reliable source, wouldn't you?
A: I thmk as an individual he has great stature and admiration from people. Regarding specific viewpoints and	14] A Depends what it is I'm seeing, sir.
conclusions in infectious diseases, he's there with all the	Q: If it was from a physician that was on the staff
rest of us .	16) that was there.
Or So hals no more or less than any of your is that	A Well, again, it's hard for me to know what I would
correct, in your opinion?	18] say if I were given something to look at, util I see it.
	19] Q: Would that hold true for the chart, as well, Doctor?
	20] A I don't understand the question.
. O: How about memoritis? Is that something that have	21] Q: Well, if you accept what's written, you have
Q: How about memgitis? Is that something that he's well-recognized as one of the world's leading authorities?	an accorted what's written in the short correct?
well-recognized as one of the world's leading authorities?	22] accepted what's written in the chart; correct?
•	 22] accepted what's written in the chart; correct? 23] A: I accept that it was written at the time, yes. 24] Q: Would you expect, Doctor, that this child would have

Page 390 Page 392 A: The chdd did look sick to an observer on the 7th. (1)A And then two lines down, I have also in quotation (1) Q: And would you expect that he would have known what (2) [2] marks. 'looks' good. whch is to imply that clinical impression ^[3] he should do? [3] that a chdd is significantly ill or not significantly ill, and A: Yes. [4] that goes to the issue of clinical judgment in trymg to decide [4] Q: What does the phrase "look sick" mean. Doctor? [5] how to manage a chdd So that on table 4, when you look at (5) A: Well, It means exactly what it says, sir. [6] the modality column, which is the 5th column over - and "CI" [6] (7)0: What does it mean to you? stands for clinical judgment - what I was trymg to get at is $\overline{71}$ A: It means that to the clinician, the chdd does not [8] that the clinical judgment is of that sort To the clinician, [a] [9] look well the child looks toxic, the child looks significantly the chdd looks well or looks significantly ill, and based on [9] (10] ill. To quote Dr. Sidney Gellis, another old-time that differentiation, how good are they at predicting who has [io] [11] pediatrician, the chdd looks and acts damn sick. There are a [11] bacterema versus laboratory tests, [12] number of ways of trymg to phrase what it is that you see in a O: And how good were they. Doc? [12] [13] chdd that, as a clinician, you're convmced that the child is [13] **A** They were better [14] not normal and worrisomely so. Q: So then one should be able. by looking at a chdd, [14] [15] 0: Can a chdd look bacteremic? to tell pretty rehably when they're bacteremic; correct? [15] A: A child can look sick and bacteremia or septicemia [16] [16] A: No. that's not what I said (17) can be a cause of the sickness. 0: Oh [17] Q: Have you ever written or published where you used [18] A: I'll try it again When one tries to decide whether [18] [19] the phrase "the child looked bacteremic"? [19] to do further testing or to embark on a therapeutic option hke A: I don't recall doing that. no. [20] [201 antibiotics or hospitaltzation, the clinical thought process is Q: If you, Doctor, were to see a child that looked [21] [21] one of trymg LO establish the risk of illness in the patient [22] bacteremic, would that conjure up a picture in your mind? You start off with a general impression of what that risk may [22] [23] A: Yes. be, depending on the clinical circumstances, height of the [23] Q: What would a chdd who looked bacteremic conjure up [24] [24] fever. and age of the patient [25] in your mind? [[25] You then do a physical exammation, and based on

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A: The child would have a significantly altered level [1] [2] of consciousness, the chdd would have a diminished level of [3] activity, would not be interactive with its environment and its [4] loved ones. and could. in fact, have signs of clinical shock, (5) cool extremities, mottled skin, poor peripheral pulses, poor [6] capillary refill, rapid heart rate, and rapid breathing. Q: Doctor, would you be good enough to turn to Exhibit [7] 10 the "Clinical Evaluation of the Febrile Infant"?Page 400. [8] [9] The third paragraph on the page. Or the second paragraph on [10] the page. When you find it, let me know. A: The second full paragraph beginning with the [11] [12] height? Q: No, beginning with "reliable." [13] A: Yes, I see it. [14] Q: Dropping down about three-fourths of the way, do you [15] see where it says, 'Table 4 illustrates that a child who [16] 'looks'bacteremic -" [17] A: Yes, I see it. [18] Q: Turn to table 4, Doctor. [19] A: Yep, I see it. [20] Q: Where in the article on page 400 or table 4 do you [21] [22] find written what you just described as the pomts or things [22] that a child that looks bacteremic would be? [23] A: You notice that I put "look in quotation marks. [24]

[25] Q: Yes, sir. I do.

- [1] that physical examination, you will raise or lower your [2] likelihood of the child having a serious illness or not having
- (3) a serious illness, and that clinical judgment, which raises or
- [4] lowers the risk of mfection in your mind, is the most
- [5] important single thing that you can do in deciding what to do
- [6] next. The information in table 4 corroborates the usefulness
- of the clinical impression.
- [B] Q: Doctor, do you agree that the global impression of
 [9] health or illness is best obtained by initial observation of
 [io] the undisturbed child?
- [11] **A** It is best obtained that way, if one can actually do
- [12] it. Sometimes that's not feasible. But it is, I think, the
- [13] optimal way of trying to make that assessment.
- [14] Q: And Doctor, do you agree that one should observe the[15] child in the parent's arms, if possible?
- [16] A Yes. If possible, I think that's probably the best
 [17] place to observe the child for making this judgment, but it's
 [18] not always feasible.
- [19] Q: And do you agree that the physician should listen
 [20] and take into should become aware of the parents' impression
 [21] of the child's illness?
 - A: Yes, I believe so.
- **Q:** And do you agree that the unclothed child, Doctor,
- [24] should be examined, particular attention being paid to the[25] state of alertness and playfulness and the degree of eve

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	[1] A: No It was a review and analysis of hterature
	Q: Excuse me A review and your own analysis of the
[3] Q: Unclothed child. Unclothed child.	[3] literature
[4] A: Well, the child should be looked at unclothed, yes,	[4] A: That's correct
[5] and the child should be assessed. To the extent that you're	^{5]} Q: Do you believe that other doctors, in writing,
[6] deciding on whether the child is interactive with the	\mathfrak{s}_l articles. review the literature and make their own analysis of
(7) environment, makes direct eye contact, responds to social	7) the same kind of literature you did?
[8] overtures and the like, I agree with that.	B] A: I have not seen another article which reviews the
Q: What is, Doctor. a localized sign?	9 totality of the published information regarding the timing of
A: A localized sign, for example, would be a focal	og antibiotics and outcome in bacterial meningitis.
mfection which explains the illness. Otitis media. acute	1] Q: You haven't, have you. Doctor?
23 pharyngitis, a rash wlch explains the illness. a disuse of an	2] A: No, sir.
3] arm or a leg, respiratory symptoms which might imply a	3] Q: Have you seen in any other field of medicine such an
4] pneumonia, diarrhea. These are all focal findings which can	4] analysis done by any other physician on any other subject that
5] explain an illness.	5] you <i>can</i> cite me to?
6] Q: How about a septic arthritis?	6] A: Yes.
7] A: Agam. that would be pain and disuse of a limb. and \checkmark	7] Q: What?
s] that is a focal finding.	8] A: I think the first one of those studies that was done
9] Q: So an arthritis or a septic arthritis can be a local	9] was done regarding the treatment of strep throat published in
oj finding; correct?	of the early 1950s, and they were looking at the timing of the
A: That's correct.	dosing of penicillin in strep throat and the risk of developing
2] Q: Have you ever heard of Heinz Eichenwald?	2) acute rheumatic fever.
A: Yes, I have.	(3) Q: Who is "they"?
Q: Is he one of the recognized figures in mfectious	A: The authors there were Dr. Rammelkamp – and I'm
25] disease?	15] trying to thirk of the other lead author in that series - Dr.
Page 395	
	Page 39
[1] A: Well, I believe Dr. Eichenwald has been practicing	
	[1] Wannamaker were the two lead authors. Dr. Floyd Dennywas also
[2] pediatrics smee the mid-1950s. He's also a professor of	[1] Wannamaker were the two lead authors. Dr. Floyd Dennywas also [2] involved in that research.
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(1) that I have already referred to. Meta-analysis as a way of	[1] A : Yes, I do.
[2] drawing conclusions from published information, I believe. is a	Q: Along with, Doctor, the article, number 17, which I
[3] technique approximately ten years old. I may be erroneous in	[3] wasn't sent, would you this time be sure to gather those and
[4] that. but I think that it's relatively recent.	[4] give it to the court reporter to send to me?
[5] Q: Have you ever heard of a Richard Behrman?	[5] A: I will send them off to Ms. McDonald.
[6] A: Yes.	[6] MR. GOLDBERG: Ms.Court Reporter, will you just
[7] Q: Who is he?	[7] make a reference to the place where I have asked for this
[8] A: He is now, I believe the director of the Packard	[8] article and number 17, so it's referenced in some way?
[9] Foundation in Palo Alto. California.	(9) THE REPORTER: Yes, sur
10] Q: Is that a research center?	Q: Do you know, Doctor, who was the author or authors
11] A: No, it's a charitable foundation that funds	[11] of that position paper in 1986 and 1992?
12] research.	A: Again, it was not a position paper. It was a
Q: I see. And the research is in what area. Doctor?	[13] compendium of dormation.
14] A: I don't know, sur.	[14] Q: Who was the author or authors?
Q: Do you know that he had been a dean of a school of	A: Dr. Ralph Feigin, Dr. Jerome Klein, and Dr. George
16 medicine?	(16) McCracken, Jr.
17] A: Yes.	Q: Those are two of the very people I asked you about
Q: Do you know a Victor Vaughn, III?	⁷ Q: Those are two of the very people 1 asked you about 8) earlier; correct?
A Yes.I don'tknow him, but I know the name.	9] A: That's correct.
20] Q: Do you know of Waldo Nelson?	
A: Yes. I know the name. I never met Dr. Nelson.	20] Q: Do you know why they were selected to write the 21] compendium or author it?
Q: Are those recogmed people in the field of	
[23] pediatric infectious disease and in pediatrics?	O. Do you have any idea?
A: No, I don't believe so. Dr. Nelson. Dr. Joe Vaughn	
and Dr. Behrman I do not believe were mfectious disease	 A: No, I do not. Q: Would you believe the compendium to be a reliable
Page 39	9 Page 40
[1] specialists.Dr. Nelson and Dr. Vaughn I believe were general	[1] source of information concerning bacterial meningitis?
[2] pediatricians at Temple University, if I'm not mistaken, and	[2] A It depends which aspect of meningitis you're
(3) Dr. Behrman is a neonatologist.	[3] referring to.
[4] Q: Have you, Doctor, ever made use of any of the books	[4] Q: In either of those compendiums, Doctor. did they
[5] written by Dr. Roger Barkin or others with him?	[5] ever make reference or cite you in any footnote or refer to any
(6) A: We use Dr. Barkin's pediatric emergency medicine	[6] of your articles?
[7] textbook in our office, and we refer to it. It's quite a good	[7] A: No.
[8] book.	[8] Q: What was the formal title of that Compendium, if you
[9] Q: By the way, Doctor, one <i>of</i> the things I had asked	[9] recall?
[10] for the last time we were together was the white paper, the	10] A: I don't recall.
[11] physician paper. Do you remember that?	Q: Was the subject matter primarily bacterial
(12) A: No, I don't remember that, sir.	12] meningitis?
Q: You referenced a physician paper called the white	13] A: Yes.
[14] paper.	Q: Are you a member of the American Academy of
[15] A: Well, I don't remember specifically referring to	15] Pediatrics?
[16] that, no.	16] A: No.
[17] Q: Do you know what the white paper is?	Q: Have you ever heard of it?
(18) A: Well, there are many things called the white paper.	18] A: Yes.
[19] I believe the one you'rereferring to is a 1986 publication in	Q: Did you ever read any of the reports put out by that
[20] Pediatrics which was a compendium of information regarding	20) particular organization?
[21] bacterial meningitis. It was then updated in 1992.	A: What reports are you referring to?
[22] Q: Right. That's the one. The last time we met, you	221 Q: Of the task force on diagnosis and management of
[23] had referred to it, and I asked, would you bring it, and you	23 menniguis. Did you ever read it?
[23] nad referred to it, and i asked, would you bring it, and you [24] said you had it in your office. You do have it in your office	 23] meningitis. Did you ever read it? A: Well, are you referring to the so-called white paper

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Q: Well, Doctor, is the report of the task force on	' [1] A: No.
diagnosis and management of merungitis what you consider to be	[2] Q: Have you ever lectured here?
a white paper?	[3] A: Yes.
A: I believe that that was the 1986 white paper.	[4] Q: Where and when?
Q: And then it was reviewed or reupdated in 1992?	[5] A: I lectured there I think once or twice at meetings
A: It was revised and updated in 1992.	(6) of the American Academy of Pediatrics.
Q: Do you know if it's put out by the American Academy	[7] Q: Do I understand that's the same organization.when I
of Pediatrics. Doctor?	[B] asked you a moment ago, you never belonged to?
A: No.it is not.	(9) A: That's correct.
Q: Was this a position paper?	[10] Q: What were you speaking on?
A: Not to my knowledge.	[11] A: I don't recall.
Q: Is it something that you would have read in the	[12] Q: What years was it?
routine course d events?	[13] A: I don't specifically recall.
A: Yes.	[14] Q: Well, what was the audience that you were speaking
Q: With regard, Doctor, to Dr. Dellatorre, 1s it	[15] to?
correct that you do not know anything about her specific	^{(16]} A: Pediatricians who belonged to the Academy.
educational background, training, experience, other than what's	Q: Have you ever been an examiner, Doctor. for any of
reflected in the deposition?	18] the board certifications that you are mvolved with?
A: That's correct.	19] A: No.
Q: And you did read her deposition: correct?	20] Q: Have you ever been an editor of any journal?
A: That's correct.	21) A: Yes.
Q: Hello Are you looking? I can't tell what you're	22] Q: Are they all contained on your CV?
doing.	23] A: Yes.
A: I'm waiting for your next question.	24] Q: Have you been a reviewer for any journal?
Q: You did read her deposition?	25] A : Yes.
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A: That's correct.	[1] Q: And is that contained on your CV?
Q: I didn't hear the answer. I'm sorry, Doctor, Would	[2] A: I'm not sure which edition of my CV you have, but I
the same thing hold true for Dr.Zarif?	[3] have reviewed for a number of journals. The most recent of
A: Yes.	[4] which is the Journal of Pediatrics. If that's not contained on
Q: Dr. Shastri. Did you read that deposition?	[5] my CV, then it should be added.
A: I believe I did. I didn't bring all those	[6] Q : I'm getting your CV, Doctor, <i>so</i> just one second. By
depositions as a list with me. They're in the car, if you'd	[7] the way, Doctor, have we now covered all the opinions that you
like me to go get them. I can tell you which ones I have read.	(8) expect to give at the trial of this cause and the bases for
but I believe they have already been read into the record.	[9] them?
Q: Do you recall reading Dr. Suhs' deposition?	10] A As far as I can tell, yes.
A: Well, maybe I should just refer to my original	11] Q: Okay. I'm looking at your CV, Doctor. Let's just
deposition, in which a list of those depositions are	12] take a five-minute break. We'll resume. Il call you back in
contained. There were a very large number of depositions to	13) five minutes.
read, as you know.	14] (A recess was taken.)
Q: Right.And you haven't - the amount of reading you	15] Q: Doctor, have we now covered all the articles that
did did not change from the beginning of the deposition;	16) you relied upon in the formulation of your opinion,
correct?From part 1, you haven't read anything in the way of	17] specificallyrelied upon in the formulation and bases of your
depositions after that as lunderstand it	18] opinions that you're going to give in this case? I think yes.
•	19] A: I believe so, with reference to the -
A: That's correct. Would you like me to look up the	
A: That's correct. Would you like me to look up the list of depositions contained in my part 1 deposition?	20] Q : We're going to be here a lot longer. I don't care.
A: That's correct. Would you like me to look up the list of depositions contained in my part 1 deposition?Q: I have it, Doctor. I just wanted to make sure you	21] Just let me know.
 A: That's correct. Would you like me to look up the list of depositions contained in my part 1 deposition? Q: I have it, Doctor. I just wanted to make sure you haven't read anything since then. That's all. Have you ever 	21] Just let me know.22] A With reference to the questions that you have asked
 A: That's correct. Would you like me to look up the list of depositions contained in my part 1 deposition? Q: I have it, Doctor. I just wanted to make sure you haven't read anything since then. That's all. Have you ever been, Doctor, in Chicago? 	 21] Just let me know. 22] A With reference to the questions that you have asked 23] me, I think the answer is yes.
 A: That's correct. Would you like me to look up the b) list of depositions contained in my part 1 deposition? c) Q: I have it, Doctor. I just wanted to make sure you c) haven't read anything since then. That's all. Have you ever 	21] Just let me know.22] A With reference to the questions that you have asked

Page 406 Page 408 A: Yes. [1] 0: Right. [1] [2] Q: Okay And as I understand it, you do not keep time A: Disease is both the mfection and the response. [2] (3) sheets, so you have given us all the records you have on that; 0: Okay Thank you. In number 4, Doctor, it says, [3] [4] right? [4] "Oral antibiotic therapy, which is used for the treatment of A: That's correct. [5] [5] otitis media, has not been shown to prevent meningitis." Is Q: All the notes you have, you have turned over to us; [6] [6] that 100 percent correct? [7] correct? A: Based on the most cogent study that was performed [7] A: That's correct. (8) [8] and which included almost 1,000 children. that was their Q: You have seen your answers to interrogatories, and (91 [9] conclusion. [10] the subsequent ietter. Exhibit 3. which gave the bases for your **Q**: It wasn't the conclusion that it didn't and wasn't ;[10] (11) opmion and we've covered those: is that correct? ,[11] effective in most all of the cases. Doctor? A: Let me just pull that exhibit out for a moment. [12] A: I'm sorry, I thought that's what I said. [12] What was the Exhibit 3 you referred to? [13] Q: Well, no. All is not - the greater percentage, but [[13] Q: A letter which was written January 8, 1996. [14] not all. [14] (15) A: Right. A: Based on their analysis. there was no difference in [15] **Q**: We covered that: right? [16] [[16] the antibiotic and nonantibiotic group. A: Yes. [17] Q: Now, Doctor, that isn't true of the parenteral W[[17] 0: Looking at the answers to interrogatories, Doctor, [18] [18] administration of ampicillin, is it? ^{(19]} would you turn to the section dealing with you, where it says A: Well, intramuscuiar or intravenous ampicillin is not [[19] "Dr. Radetsky"?When you get there. let me know. [20] [20] used in the treatment of otitis media. A: Well, I may not have that answers to interrogarories Q: What in 1971 was used. Doctor. for the treatment of [21] [21] (22) with me here. It's probability in the car. [22] otitis media?I thought you said there was two choices, (231 Q: I'll read it. [23] penicillin and sulfa.or ampicillin. A: That's all right. [24] A: That's correct. But both of them were given orally, 241 Q: Number 1, "MarkTurner first had clinically apparent [25] 25] neither was gven by injection.

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[1] meningitis on January 7." That is what you're referring to as	[1] Q : Are you stating that in 1971 it would not be within
[2] chcally overt; right?	[2] the appropriate standard of care to give any of those
[3] A: Yes.	[3] antibiotics parenterally via IV?
[4] Q: So clinically apparent, clinically overt mean one	[4] A: Not for conventional otitis media, no.
[5] and the same here, right?	[5] Q : What do you mean by conventional otitis media?
[6] A: Yes.	[6] A: Common otitis media in a normal child. If a child
[7] Q: In number 3, which I will read, I take it this is	[7] was an immunodeficient host. an unusual organism, it was
[8] because of the inflammation – the question is. it's because of	[8] compiex disease involving the mastoid bone or associated
[9] the inflammatory process. It reads as follows. "Mark Turner's	[9] complications, then it's a different answer.
[10] brain damage was due to vascular injury caused by the	io] Q: If it was found to be HIB organism that was causing
[11] meningitis of which a stroke on January 25,1971, was an	11] the otitis media, it would be IV, would it not?
[12] example. This vascular injury was due to the vulnerable	12 A This is a hypothetical?
[13] vascular architecture of the child and the inflammation which	[13] Q: Yes.
[14] is associated with meningitis."	[14] A You know, I have never run up against that
[15] This vascular injury was unrelated to the antibiotic	[15] situation, so I don't know the answer to the question.
[16] treatment of the disease which was successful; correct?	[16] Q: Is there a stronger result or effect using
[17] A: Correct.	[17] ampicillin parenterally via the N route than there is orally,
[18] Q : And so what that means, in light of what you have	[18] Doctor?
[19] said here earlier today and the other part of your deposition,	[19] A: Not in otitis media, no, sir.
[20] that there is an inflammatory response which, in the areas	[20] Q: Not in otitis media; is that correct?
[21] mvoived. would be an explanation as to what, in fact, gave	[21] A: That's correct.
[22] rise to the central nervous system deficit, rather than the	[22] Q : So are you saying that ampicillin is then not
[23] disease directly itself! It's the response to the disease?	[23] effective against otitis media?
[24] A: That's correct. It's the response to the	[24] A: No, I'm saying that the intramuscular or intravenous
[25] mfecuon.	[25] route offers nothing by way of cure of otitis media that is not

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already present with the oral drug.	(1) syndrome and the leading cause of pertussis syndrome is, in
2] Q: All right. Did Mark have otitis media prior to	(2) fact,Bordetella pertussis
being admitted to the Contagous Disease Hospital?	[3] Q: Do you know why they never did the tests in this
A: I don't have any information to suggest that he had	[4] pauent to confirm tt?
5j otitis media prior to 12/27/70.	(5) A: No, I don t know why
Q: Did anyone diagnose that he had otitis media before	[6] Q: Was it attempted to be done?
7) he was admitted to Municipal Contagious Disease Hospital?	[7] A: Not to my knowledge Excuse me There was a
B) A: I don't have any information to say so, no, str.	[8] doctor's order that said, 'Work up for pertussis," but I don't
Q: if it was diagnosed in any other hospital, would you	(9) have any results of that workup
rake that mto consideration in your opmions?	Q: Doctor.in the Exhibit 3, part number 4, as a basis
A: It depends what opmion I was being asked.	[11] for your opuuon. you state, "Otihs media is not a risk factor
Q: If he had it diagnosed at an earher time, Doctor.	[12] for bacterial meningitis "
would it make him more or less likely for a recurrence?	I with it as much Dentern that there is non-enterly an
A: There is information to suggest that children who	[13] Is fit correct, Doctor, that there is reported in [14] the hterature that otitis media has been and is reported to be
5) have multiple episodes of otitis media under six months of age,	[14] the interactive that outsincona has been and is reported to be [15] associated with HIB of the typeable kind and there's a
are anatomically predisposed towards getting otitis media and	
	[16] staustical association in that regard?
	[17] A I'm sorry, are you telling me, str. that it is your
	(18) contenhon that outis media is a risk factor for Hemophdus
9] A: Well, it wasn't known by me, because I was not in	(19) influenzae type B meningitis?
medicine in 1970.	[20] Q: The reverse
Q: In the medical community.	[21] A Oh The reverse' What do you mean by "reverse"?
A: I don't know the answer to that. Oh, by the way,	[22] Q: That Hemophilus mfluenzae type B meningitis is
3] Sir	[23] reported to occur from a patient having otitis media where the
4] Q: Yes. sir.	[24] offending or the biologcal organism is the Hemophdus
A: - in the admission history and physical examination	[25] influenzae type B kind
Page411	Page 4
1] on 12/27/70, I just noted that Dr. Dellatorre did, in fact,	[1] A Yes, there have been <i>case</i> reports of that.
2) record that the child had had three DPTs and two oral polios.	Q. And you have already told me what your understanding
Q: Of what significance does that have in the	[3] of the percentage of those reports is: correct?
4] formulation - formation, rather, of this child getting	
	[4] A: No. What I said is two things. One is there have
	[4] A: No. What I said is two things. One is there have (5) been case reports of children with HIB meningitis in whom a
5] pertussis?	[5] been case reports of children with HIB meningitis in whom a
 pertussis? A: The protective efficacy after three DPT 	 (5) been case reports of children with HIB meningitis in whom a (6) tympanocentesis wasperformed which showed HIB in the middle
 pertussis? A: The protective efficacy after three DPT immunizations is probably 85 percent, and therefore, it 	 (5) been case reports of children with HIB meningitis in whom a (6) tympanocentesis wasperformed which showed HIB in the middle (7) ear.
 pertussis? A: The protective efficacy after three DPT immunizations is probably 85 percent, and therefore, it decreases the chance, without eliminating it, of getting 	 (5) been case reports of children with HIB meningitis in whom a (6) tympanocentesis wasperformed which showed HIB in the middle (7) ear. (8) Q: Do you know with what frequency that occurs, Doctor?
 pertussis? A: The protective efficacy after three DPT immunizations is probably 85 percent, and therefore, it decreases the chance, without eliminating it, of getting pertussis. 	 (5) been case reports of children with HIB meningitis in whom a (6) tympanocentesis wasperformed which showed HIB in the middle (7) ear. (8) Q: Do you know with what frequency that occurs, Doctor? (9) A No, because they're case reports.
 pertussis? A: The protective efficacy after three DPT immunizations is probably 85 percent, and therefore, it decreases the chance, without eliminating it, of getting pertussis. Q: So certainly on a probability basis he would not 	 (5) been case reports of children with HIB meningitis in whom a (6) tympanocentesis wasperformed which showed HIB in the middle (7) ear. (8) Q: Do you know with what frequency that occurs, Doctor? (9) A No, because they're case reports. (10) Q: Do you know if anyone has done a study on the case
 a) pertussis? b) A: The protective efficacy after three DPT c) immunizations is probably 85 percent, and therefore, it c) decreases the chance, without eliminating it, of getting c) pertussis. c) Q: So certainly on a probability basis he would not c) have had it? 	 (5) been case reports of children with HIB meningitis in whom a (6) tympanocentesis wasperformed which showed HIB in the middle (7) ear. (8) Q: Do you know with what frequency that occurs, Doctor? (9) A No, because they're case reports. (10) Q: Do you know if anyone has done a study on the case (11) reports and from university settings as to the percentage of
 pertussis? A: The protective efficacy after three DPT immunizations is probably 85 percent, and therefore, it decreases the chance, without eliminating it, of getting pertussis. Q: So certainly on a probability basis he would not have had it? A: No. It decreases the chances of getting it. The 	 (5) been case reports of children with HIB meningitis in whom a (6) tympanocentesis wasperformed which showed HIB in the middle (7) ear. (8) Q: Do you know with what frequency that occurs, Doctor? (9) A No, because they're case reports. (10) Q: Do you know if anyone has done a study on the case (11) reports and from university settings as to the percentage of (12) patients with otitis media that went on to get meningitis that
 pertussis? A: The protective efficacy after three DPT immunizations is probably 85 percent, and therefore, it decreases the chance, without eliminating it, of getting pertussis. Q: So certainly on a probability basis he would not have had it? A: No. It decreases the chances of getting it. The fact that he comes in with pertussis syndrome without another 	 (5) been case reports of children with HIB meningitis in whom a (6) tympanocentesis wasperformed which showed HIB in the middle (7) ear. (8) Q: Do you know with what frequency that occurs, Doctor? (9) A No, because they're case reports. (10) Q: Do you know if anyone has done a study on the case (11) reports and from university settings as to the percentage of (12) patients with otitis media that went on to get meningitis that (13) it reflected or showed was the percentage that was from HIB of
 a. The protective efficacy after three DPT b. A: The protective efficacy after three DPT c. immunizations is probably 85 percent, and therefore, it c. decreases the chance, without eliminating it, of getting pertussis. c. So certainly on a probability basis he would not c. have had it? c. A: No. It decreases the chances of getting it. The c. fact that he comes in with pertussis syndrome without another c. a good explanation still suggests that he had pertussis. 	 (5) been case reports of children with HIB meningitis in whom a (6) tympanocentesis wasperformed which showed HIB in the middle (7) ear. (8) Q: Do you know with what frequency that occurs, Doctor? (9) A No, because they're case reports. (10) Q: Do you know if anyone has done a study on the case (11) reports and from university settings as to the percentage of (12) patients with otitis media that went on to get meningitis that (13) it reflected or showed was the percentage that was from HIB of (14) the typeable kind?
 a. The protective efficacy after three DPT b. A: The protective efficacy after three DPT c. immunizations is probably 85 percent, and therefore, it c. decreases the chance, without eliminating it, of getting pertussis. c. So certainly on a probability basis he would not c. have had it? c. A: No. It decreases the chances of getting it. The c. fact that he comes in with pertussis syndrome without another c. ago d explanation still suggests that he had pertussis. c. J. J. St. Amount of the pertussis syndrome that he had - that it 	 (5) been case reports of children with HIB meningitis in whom a (6) tympanocentesis wasperformed which showed HIB in the middle (7) ear. (8) Q: Do you know with what frequency that occurs, Doctor? (9) A No, because they're case reports. (10) Q: Do you know if anyone has done a study on the case (11) reports and from university settings as to the percentage of (12) patients with otitis media that went on to get meningitis that (13) it reflected or showed was the percentage that was from HIB of (14) the typeable kind? [15] A I'm confused by that sentence, sir.
 a) pertussis? b) A: The protective efficacy after three DPT c) mmunizations is probably 85 percent, and therefore, it c) decreases the chance, without eliminating it, of getting c) pertussis. c) Q: So certainly on a probability basis he would not c) have had it? c) A: No. It decreases the chances of getting it. The c) fact that he comes in with pertussis syndrome without another d) good explanation still suggests that he had pertussis. c) G: Is that pertussis syndrome that he had - that it c) suggests pertussis syndrome? 	 (5) been case reports of children with HIB meningitis in whom a (6) tympanocentesis wasperformed which showed HIB in the middle (7) ear. (8) Q: Do you know with what frequency that occurs, Doctor? (9) A No, because they're case reports. (10) Q: Do you know if anyone has done a study on the case (11) reports and from university settings as to the percentage of (12] patients with otitis media that went on to get meningitis that (13) it reflected or showed was the percentage that was from HIB of (14) the typeable kind? (15) A I'm confused by that sentence, sir. (16) Q: Doctor, meningitis can occur from otitis media; is
 a. The protective efficacy after three DPT a. The protective efficacy after three DPT a. mmunizations is probably 85 percent, and therefore, it b. decreases the chance, without eliminating it, of getting b. pertussis. c. Q: So certainly on a probability basis he would not b. have had it? c. A: No. It decreases the chances of getting it. The c. fact that he comes in with pertussis syndrome without another c. Good explanation still suggests that he had pertussis. c. J. St that pertussis syndrome that he had - that it c. Suggests pertussis syndrome? c. Well, now. I think we talked about that before, that 	 (5) been case reports of children with HIB meningitis in whom a (6) tympanocentesis wasperformed which showed HIB in the middle (7) ear. (8) Q: Do you know with what frequency that occurs, Doctor? (9) A No, because they're case reports. (10) Q: Do you know if anyone has done a study on the case (11) reports and from university settings as to the percentage of (12) patients with otitis media that went on to get meningitis that (13) it reflected or showed was the percentage that was from HIB of (14) the typeable kind? (15) A I'm confused by that sentence, sir. (16) Q: Doctor, meningitis can occur from otitis media; is (17) that correct?
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 5) pertussis? 6) A: The protective efficacy after three DPT 7) immunizations is probably 85 percent, and therefore, it 6) decreases the chance, without eliminating it, of getting 9) pertussis. 0) Q: So certainly on a probability basis he would not 1) have had it? 2) A: No. It decreases the chances of getting it. The 3) fact that he comes in with pertussis syndrome without another 4) good explanation still suggests that he had pertussis. 5) Q: Is that pertussis syndrome that he had - that it 6) suggests pertussis syndrome? 7) A: Well, now. I think we talked about that before, that a) there was no confirmatory culture or culture of another 9) causative agent in the studies of pertussis syndrome. I 	 (5) been case reports of children with HIB meningitis in whom a (6) tympanocentesis wasperformed which showed HIB in the middle (7) ear. (8) Q: Do you know with what frequency that occurs, Doctor? (9) A No, because they're case reports. (10) Q: Do you know if anyone has done a study on the case (11) reports and from university settings as to the percentage of (12) patients with otitis media that went on to get meningitis that (13) it reflected or showed was the percentage that was from HIB of (14) the typeable kind? (15) A I'm confused by that sentence, <i>sir</i>. (16) Q: Doctor, meningitis can occur from otitis media; is (17) that correct? (18) MS. McDONALD: From <i>otitis</i> media? (19) A No, that's not true. That's not true.
 a. The protective efficacy after three DPT A: The protective efficacy after three DPT immunizations is probably 85 percent, and therefore, it decreases the chance, without eliminating it, of getting pertussis. Q: So certainly on a probability basis he would not have had it? A: No. It decreases the chances of getting it. The fact that he comes in with pertussis syndrome without another good explanation still suggests that he had pertussis. G: Is that pertussis syndrome that he had - that it suggests pertussis syndrome? A: Well, now. I think we talked about that before, that there was no confirmatory culture or culture of another causative agent in the studies of pertussis syndrome.I believe 80 percent or greater were caused by Bordetella 	 (5) been case reports of children with HIB meningitis in whom a (6) tympanocentesis wasperformed which showed HIB in the middle (7) ear. (8) Q: Do you know with what frequency that occurs, Doctor? (9) A No, because they're case reports. (10) Q: Do you know if anyone has done a study on the case (11) reports and from university settings as to the percentage of (12) patients with otitis media that went on to get meningitis that (13) it reflected or showed was the percentage that was from HIB of (14) the typeable kind? (15) A I'm confused by that sentence, <i>sir</i>. (16) Q: Doctor, meningitis can occur from otitis media; is (17) that correct? (18) MS. McDONALD: From <i>otitis</i> media? (19) A No, that's not true. That's not true. (20) Q: With regard, Doctor, to otitis media, ditis media,
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[16] **Q:** But the organism, in being present when that does

(17) occur. can give rise to the bacteremia section correct?

[18] A: Yes. but it's the presence of the organism on the

[19] mucosa, not its presence in the middle ear, that is the event [20] which conspires with other factors to lead to the bacteremia. [16] **Q**: Would **that** include the thenar area of the hand?

[17] **A:** No. It wouldn't include the thenar area. which is a

[18] soft tissue, but it would include the metacarpal phalangeal

you'll rule out

[19] joint of the thumb.

[20] Q: Did this patient, Doctor, while in the Municipal

[25]

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[1] A: Only by way of the descriptions of the doctors and	[1] meningitis are reduced.
[2] nurses taking care of the child.	Q: Doctor, if a patient has bacteremia. if you can kill
[3] Q: Doctor. as you sit here now, Qd you make any notes	³ [3] off the orgmsms or make the body sterile of the organisms
[4] in your materials as to what opinions you read of Dr.	[4] before the meninges are, in fact, infected, and prevent the
[5] Livingston that you agreed or disagreed with?	[5] meninges from being infected.will that prevent meningitis?
(6) A : No.	A: if a child has bacterema and does not have
[7] Q: As you sit here now, do you have any memory of what	[7] meningitis and is treated for the bacteremia, you will prevent
(B) opinions he gave and you agree or Qsagree with?	[8] or decrease the risk of developing meningitis.
[9] A: Well. as I recall, he suggested that large numbers	9] Q: Can you prevent it totally by the giving of proper
10] of mdividuals - or a certain percentage of individuals will	o) antibiotics by the right route and dosage? Have you read
[11] carry Hemophilus. I don't believe that's the case. I believe	1] articles that suggest that?
[12] that he suggested that the otitis media was the source of the	A: No, you cannot prevent it totally.
[13] mfection.I disagree with that. I do believe he suggested	Q: What is the percentage that you believe is prevented
[14] that had the Hemophilus - had the ear mfection been treated	4] or can be reduced?
(15) with antubiotics, the ear mfection that he perceived was there	$_{51}$ A: It's a high percentage. I believe it's probably
[16] been treated with antibiotics soon after the admission.that	6) greater than 75 percent.
[17] the child would not have gone on to develop meningitis, and I	7_1 Q : Would it be correct that it would be at least 92
[18] don't agree with that. And I believe he had some notion of the	8) percent?
(19) meningitis beginning at some point prior to the 7th. and he had	A: It certainly – well, that order of magnitude, yes.
[20] some, I think, very specific idea of when it began, and I don't	Q: Have we covered the opinions that you disagree with,
[21] agree with that.	11 with regard to Dr. Livingston and the bases –
[22] Q: Why, Doctor, don'tyou believe or agree with him	A: I believe <i>so</i> , yes.
[23] when he says if the otitis media had been properly treated, the	Q: When you say you disagree with him that a certain
[24] patient would not have gone on to get meningitis?	^{14]} number of patients carry HIB, what is the basis for your
[25] A: Because the treatment of otitis media is done with	25] disagreement?
Page 419	Page 421
[1] oral antibiotics, and the best large-scale study which has been	
[2] published does not suggest that oral antibiotics can eliminate	[1] A: There have been a number of surveys of children and [2] adults done in which throats were cultured for Hemophilus
[3] or decrease the risk of meningitis.	[3] influenzae type B, and it showed that the normal carriage of
[4] Q: Have you read any study that indicates the giving of	[4] that organism is less than 1 percent, except in circumstances
[5] parenteral antibiotics can eliminate that?	[5] in which there has been a known exposure, in which case the
[6] A: Parenteral antibiotics are not used for the	[6] carriage rate is much higher.
[7] treatment of otitis media. Therefore, there are no such	 [7] Q: Carriage rate being 1 percent nevertheless means 1
[8] studies.	[8] percent can carry it, Doctor?
[9] Q: I'm not asking you that. Have you read any articles	[9] A: I said less than 1 percent.
[10] that say parenteral antibiotics, if given, can prevent	 Q: But it means that a certain percentage can carry it,
[11] memgitis from occurring? Have you ever read that?	11] does it not?
[12] A: In what context? In otitis media, you mean?	A: No. What it means is that it is not part of the
[13] Q: No. In the context of bacteremia or septicemia, or	¹³ normal flora. but that you will occasionally find the organism
(14) any number of - or of any number of circumstances where the	(4) in the throat from someonewhohashadanunwitting exposure to
[15] doctor chooses to give it.	15] someone who has the organism. They do not carry it for a long
[16] A: Well, yes, there are articles which show that if a	16] period of time, meaning they'll lose it in weeks to months, and
[17] child has bacteremia and if the bacteremia is treated with	17] so it's a transient organism in the throat, not part of the
[18] antibiotics, prior to the development of bacterial meningitis,	18] normal flora.
(19) there is a decreased risk of developing meningitis.	Q: Did you read what the basis was, why he said there's
[20] Q: So if a patient is given such antibiotics, it may	20] a certain percentage of patients that carry this in their
[21] prevent totally or a certain percentage of harm from the	
	21] natural flora?
[22] bacterial meningitis: correct?	 21] natural flora? 22] A: I don't remember, no, sir.
[22] bacterial meningitis: correct?[23] A: If a child has bacteremia and based on the fact the	
	A: I don't remember, no, sir.

[24] child had bacteremia is treated with parenteral antibiotics, [25] and does not have meningitis, then the chances of developing

A: That's correct.

25]

Page 422 [1] Q: Do you recall any opinions of Dr. Charash that he	с С
[1] Q: Do you recall any opinions of Dr. Charash that he [2] gave?	[1] point in time I have no further questions. Thank you, Doctor.
	[2] MS. McDONALD: I have a few questions for
 [3] A: As I recall, Dr. Charash had some very certain ideas [4] as to the moment of the development of meningitis and its 	(3) clarification.
[5] preventability based on hours or days prior to when the	[4] (A discussion was held off the record.)
[6] diagnosis was made, and I disagree with that timetable.	[5] EXAMINATION
	[6] BY MS. McDONALD:
	[7] Q : Okay, Doctor. In the first part of your deposition,
	[8] you talked about the fact that it would be helpful in your job
	[9] as an expert witness to have a richer description of the
	[io] condition of the child at certain points. Do you recall that
[11] tell that it didn't occur at a gven moment, either. Isn't [12] that true?	[11] testimony?
At It outs both ways descent it cin?	[12] A: Yes.
[13] A: It cuts both ways. doesn't it, sir?	[13] Q : In giving that testimony, did you intend in any way
	[14] to criticize the way in which the chart was kept in this case?
(15) A: No one knows when meningitis begins.	[15] A: No.
	[16] Q : What did you intend by that remark?
	A: I thought the charting in this case was very
(18) correct; yes?	18] reflective of charting that was common and acceptable in its
[19] A : Yeah. All you can know is when meningitis is	19] time, and what I was referring to was the position that I am
[20] clinically evident.	20] put in, which is one in which I try to recreate the events of a
[21] Q : Do you recall any of the opinions given by Dr.	21] situation which occurred 25 years ago, and the more information
[22] Tomasi?	22] that is provided to me, the easier it is for me to do that.
[23] A: I did not read his deposition.	23] MR. GOLDBERG: Show an objection. Move to
[24] Q: And as I recall, Doctor, from my notes here, you did	24] strike.
[25] not do an Index Medicus or a Medline search on any of the	251 Q: Now, I want to look at one page of the records that
Page 423	Page 425
[1] issues in this case specifically;right?	[1] Mr. Goldberg had you look at earlier. And that was the nurse's
$\begin{bmatrix} 2 \end{bmatrix} \textbf{A: That's correct.}$	[2] note that we had some trouble finding. Remember January 7?
[3] Q: Hello?	[3] A: Yes, I have it.
[4] A: I said that's correct.	[4] Q: Okay Now, that reference there, "very irritable
[5] Q: I'm sorry,Doctor. I didn't hear an answer. I	[5] when disturbed." <i>Can</i> you tell there whether that notation was
[6] didn't hear any response. You may have nodded your head, but	[6] ma& after the diagnosis of meningitis?
[7] neither Ms. McDonald nor myself heard the answer. So bear with	A: It was made on the 7th. The time, the beginning of
[8] US.	[8] that line is sandwiched in between two times, one approximately
[9] Other than, Doctor, my requests previously having [io] been made for the white paper – which I'm asking you again to	[9] 8:00 in the morning, and one at 10:30 in the morning. It could
[11] get - and the fact that there were two articles which I	10] have been made contemporaneously with the diagnosis of
[12] requested and thought I would have, and don't –	11] meningitis actually being made, but there's no specific time
	12] written on the first line in which that notation appears.
	13] Q: Is that 8:00 and 10:30 - are you reading that as
[14] Q: One additional article which I thought I would [15] have. No, two. The Killio articles.	14] a.m. or p.m .?
	15] A I assume that's a.m.
 [16] MS. MCDONALD You have one. [17] Q: Other than the Killio article, which I don't have, 	16] Q: Do you see the remark above that, " IV running well'?
[18] and the white paper that I asked for earlier, other than that,	17] A Yes, I do see "IV running well." That suggests
[19] Doctor, at this time I ask you, we have covered all your	18] that ⁻ thankyou for pointing that out ⁻ that all of those
[20] opinions and bases that you believe and expect to give at the	19 times, 4:00, 8:00, and 10:30, were all p.m., because the child
[21] trial of this cause; correct?	20] did not have an IV before the diagnosis was made.
[22] A : Yes, sir.	21] Q: Okay. So was there any reference to the word
[23] Q: And with that and based on that representation,	27 "irritable" - I mean, did the word "irritable" appear in the
[24] other than my reserving of the right <i>to</i> having those articles	3] chart anywhere that you saw by anyone prior to the diagnosis of
[25] and deciding whether I want to have follow-up on them, at this	24) meningitis? 25] A: No.

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Q: Now, there was a discussion earlier in the	, [1] Q: Yes.
deposition about diarrhea the child had. And you were looking	[2] A: And I have on that page both nursing notes from the
at the nurses' notes of January 4. Do you recall that?	[3] 6th, and nursing notes from the morning of the 7th.
A: Yes.	[4] Q: Right. Now, Doctor, let's look at the times
Q: And you indicated that that was the only one you	[5] together. On the 6th, are the only notes that you see in the
could find which noted or commented on the quality of the	(6) nurses' notes from 11:00 to 7:00?
child's stool.And I just wanted to refer you - was there	[7] A: I have a note from $11:00$ to $7:00$ and a note $3:00$ to
another note regarding his stool on January 2?	[[B] 11:00.
A Let me flip to that. On the 2nd. there is a	[9] Q: Does that cover 24 hours. Doctor?
notation that says, "Large soft yellow stool."	[10] A: No. There's a 7:00 to 3:00 gap.
Q : Okay. So there was another notation about the	[11] Q: Right. Look on the 6th, Doctor. Let's start with
quality of his stool?	[12] the 6th. Tell me the nursing notes and times that you see any
A: Yes. and the notation that I referred to seemed to	[13] nurse wrote a note.
be a shift from that large soft yellow stool to a loose stool.	[14] A: As I said, I have a note from the 6th. 11:00 to
Q: Just one last thing. Mr. Gotdberg asked you about	[15] 7:00. it's not specified any more accurately than that, and
the diagnosis on discharge, and I would just ask you to look in	[16] then I have notes written on a notation of 3:00 to 11:00, not
the record and see what the diagnosis was on discharge.	[17] specified any more accurately than that.
A: Are you referring to, "Final diagnosis:Pertussis	[18] P: You assume the note to the right, then, with 1/6
with memgitis"?	[19] below it refers to the 6th?
Q: Is that what you would consider the diagnosis on	[20] A: Yes.
discharge?	• Then you see a note 1/7 compat?
A That's contained in the doctor's summary, pertussis	$\begin{bmatrix} [21] \\ [22] \end{bmatrix} A: Yes.$
with meningitis.	$\Omega_{\rm r}$ And then you as to the time it says $\alpha = 11,00$ to
Or Ober Se there's an exercise in the discharge	[23] Q: And then you go to the time, it says a.m., 11.00 to [24] 7:00; correct?
j Q: Okay. So there's no mention in the discharge j diagnosis of otitis media; is that correct?	[25] A: Well, I have a note from the 7th that is marked
Page 421	
Page 42. A That's correct. MS. McDONALD: That's all I have. Thank you.	 Page 4 [1] 11:00 to 7:00. [2] Q: And if you look straight up, that refers to the a.m.
A That's correct. MS. McDONALD: That's all I have. Thank you.	[1] 11:00 to 7:00.
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 A That's correct. MS. McDONALD: That's all I have. Thank you. FURTHER EXAMINATION BY MR. GOLDBERG: Q: Doctor, you were asked to look at that note where it says irritable. You recall that? A: Yes. Q: Would you find it? A Yes. Q: What's the page number, Doctor? A: That's the target of the page number. 	 [1] 11:00 to 7:00. [2] Q: And if you look straight up, that refers to the a.m. [3] column; right? [4] A: Yes. [5] Q: Now, what other time during the date of the 7th did [6] any nurses write notes? [7] A: There's a note from 9:00 a.m., a note from 11:30 [8] a.m., a note from 2:00 p.m., and then we switch to page 45, all
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Page 430	Page 432
A: They are right below the note that is entitled 11:00	[1] the morning until midnight of the 6th - or rather, 11:00 of
[2] to 7:00 on the 7th.	[2] the 5th?
[3] Q: Now, Doctor, you're assuming that the notes went out	[3] A: No, I do not.
[4] of order. aren't you?	[4] Q: And now we have $11:00$ to $7:00$ which is $11:00$ of the
[5] A: No.	[5] 5th to 7:00 of the 6th, right?
[6] Q: No?Let's go through it again, Doctor. 11:00 to	[6] A: That's correct.
7 7:00 would be the 11:00 p.m. shift on the 6th until 7:00 a.m.	[7] Q: Are there any other notes the rest of the day of the
[8] in the morning of the 7th; correct?	[8] 6th?
(9) A: Correct.	[9] A: Yes. There are notes between 3:00 in the afternoon
[io] Q : Now we're at 7:00 a.m. on the 7th. Where is the	io] and 11:00 at night on the 6th.
[11] note?The next note is 11:00 to 7:00 on the 7th, below it.	Q: So where are the notes from the second shift from
[12] MS. McDONALD: I object.	12] the 7:00 until 3:00?
[13] A: No, no. Sir, I think you're interpreting it wrong.	^{13]} A: There are no notes.
[14] The note that says $1/7/71,11:00$ to 7:00 -	[14] Q: All right. Now we've got 3:00 to 11:00, which is
[15] Q: Yes.	15] the 7th, right?
[16] A: $-$ that is 11:00 on the 6th to 7:00 in the morning	^{16]} A We have 3:00 to 11:00 on the 6th.
[17] on the 7th.	[17] Q: And then we have something that would indicate that
[18] Q: That's your assumption; correct?	18) would be 9:00 a.m.; is that right?
[is] A No, that's the conventional way it's done.	19] A: No, then you have a note from 11:00 at night on the
[20] Q: You think so?	20] 6th to 7:00 in the morning on the 7th.
[21] A You got it.	Q: Then you have a note that says 9:00; correct?
[22] Q: Okay. Now, Doctor, where is the number of shifts or	22] A: That's correct.
[23] nurses that examined this child evident from 11:00 to 7:00 on	Q: Did you assume that to be $9:00 \text{ a.m.}$?
[24] the 5th, the 6th, or the 7th?	24] A: That's correct.
[25] A: I don't understand your question.	Q: And then 11:30 a.m.
Page 431	Page 433
Page 431 [1] Q: Tell me when nurses examined this child other than	Page 433 [1] A: That's right.
O. Tall many than approve approximed this shild other than	
[1] Q: Tell me when nurses examined this child other than	[1] A: That's right.
 Q: Tell me when nurses examined this child other than between 11:00 to 7:00 on the 5th. 	 [1] A: That's right. [2] Q: And then 2:00? A: 2:00 in the afternoon use
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$[4]$ Q: That's not my question. though. Is that when \neg in	[4] MR. GOLDBERG: I have no further questions,
5) your opuuon. the first time this child became irritable was	[5] subject to my reservations.
[6] actually when it became irritable. was when that note was	⁶ [6] MS. McDONALD: I'm afraid I have to clarify
[7] written?	[7] somethmg else about the records.
(8) A: I wasn'r there, sir, so I can't answer your	A: Could you move closer to the microphone, ma'am?
[9] question. other than when the word is used.	[9] MR. GOLDBERG: Yes, she's coming
Q: And Doctor, with reference to a more rich	[10] FURTHER EXAMINATION
11] description, you are not presently giving any opinions one way	[11] BY MS. McDONALD:
12] or the other, as I understand it, on standard of care; is that	[12] Q: If you could look again, Doctor, at the nurse's
	[13] notes, the page which has the 3rd and the 4th and the 5th and
	[14] the 6th and some of notes of the 7th on them.
(r) opmon recording the issue of equation	[15] A: Just a moment, please. That's L90; is that
	[16] correct?
17] discharge, do you agree that generally, the diagnosis at time	[17] Q: Yes.
18] of discharge should include the diagnoses at the tune of	[re] A: All right, I have it.
19] admission?	Q: Now, Mr. Goldberg was taking you through the date,
A: The diagnosis at the time of discharge includes the	and he pointed out the note for January 4, 11:00 to 7:00, the
	[21] note for January 4, 7:00 to 3:00. Now, if you look at the
^{22]} hospitalization.so that oftentimes you will have a working	[22] right-hand side of the page, at the top, you see there a note
²³ diagnosis on admission, and a final diagnosis on discharge.	[23] for January 4?
24] And they may differ.	[24] A : Yes, I do.
25] Q: Doctor. if a patient comes in with one disease	Q: Now, do you know when that note was written?
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(1) ongoing, that for whatever reason is no longer present during	[1] A: I presume it was written on January ⁴ , but I don't
[2] the stay, and the patient is discharged, isn't it correct	[2] know the time.
(3) operating procedure which is normally to be followed would	[3] Q: Now, on that side of the page there is a p.m., isn't
[4] include in the discharge diagnosis all the diagnoses which were	[4] there?
[5] confirmed as being present while the pauent was at the	[5] A: That's correct.
[6] hospital?	[6] Q: Would it be reasonable to assume that that was
[7] A: In general that's true.	[7] written in the p.m. on January 4?
[8] Q: Thank you. With regard, Doctor, to the diagnoses on	[8] MR. GOLDBERG: Objection, what would be
[9] discharge,do you know why this patient left the hospital?	[9] reasonable to assume.
A: My understanding is that the parents requested a	[10] Q: Go ahead.
(11) transfer.	[11] A: It was written in the column p.m., yes.
Q: Do you know why the parents requested a transfer?	[12] Q: Okay. And actually! that indicates, doesn't it,
[13] A: Not specifically, no.	[13] three loose green stools; correct?
Q: You don't recall reading that in the deposition; is	[14] A: Yes, it does.
(15) that correct?	[15] Q : That would be another note referring to the stools?
A: Well, they were dissatisfied with the care that they	[16] A: Yes, that's correct.
A: Well, they were dissatisfied with the care that theywere receiving at the one hospital.	[17] Q: Now,Mr. Goldberg was pointing out to you on January
 A: Well, they were dissatisfied with the care that they were receiving at the one hospital. Q: Do you remember specifically what they were 	[17] Q: Now, Mr. Goldberg was pointing out to you on January [18] 5 there was a note 11:00 to 7:00. Looking in the right-hand
 A: Well, they were dissatisfied with the care that they were receiving at the one hospital. Q: Do you remember specifically what they were 	[17] Q: Now, Mr. Goldberg was pointing out to you on January [18] 5 there was a note 11:00 to 7:00. Looking in the right-hand [19] side of the page again, isn't there another note for January 5?
 A: Well, they were dissatisfied with the care that they were receiving at the one hospital. Q: Do you remember specifically what they were dissatisfied about and with? A: Not specifically, no. 	 Q: Now, Mr. Goldberg was pointing out to you on January 5 there was a note 11:00 to 7:00. Looking in the right-hand side of the page again, isn't there another note for January 5? A: Yes, there is.
 A: Well, they were dissatisfied with the care that they were receiving at the one hospital. Q: Do you remember specifically what they were dissatisfied about and with? A: Not specifically, no. Q: And Doctor, this case mvolves a patient who did not 	 Q: Now, Mr. Goldberg was pointing out to you on January 5 there was a note 11:00 to 7:00. Looking in the right-hand side of the page again, isn't there another note for January 5? A: Yes, there is. Q: Okay. And that's again in the p.m. column?
 [16] A: Well, they were dissatisfied with the care that they [17] were receiving at the one hospital. [18] Q: Do you remember specifically what they were [19] dissatisfied about and with? [20] A: Not specifically, no. [21] Q: And Doctor, this case mvolves a patient who did not have - let me restate this. This patient did not have 	 Q: Now, Mr. Goldberg was pointing out to you on January 5 there was a note 11:00 to 7:00. Looking in the right-hand side of the page again, isn't there another note for January 5? A: Yes, there is.
 [16] A: Well, they were dissatisfied with the care that they [17] were receiving at the one hospital. [18] Q: Do you remember specifically what they were [19] dissatisfied about and with? [20] A: Not specifically, no. [21] Q: And Doctor, this case mvolves a patient who did not have - let me restate this. This patient did not have [23] meningitis when he entered the hospital on the 27th, did he? 	 Q: Now, Mr. Goldberg was pointing out to you on January 5 there was a note 11:00 to 7:00. Looking in the right-hand side of the page again, isn't there another note for January 5? A: Yes, there is. Q: Okay. And that's again in the p.m. column? X: View is included in the signal of the sis signal of the signal of the signal of
 [16] A: Well, they were dissatisfied with the care that they [17] were receiving at the one hospital. [18] Q: Do you remember specifically what they were [19] dissatisfied about and with? [20] A: Not specifically, no. [21] Q: And Doctor, this case mvolves a patient who did not 	 Q: Now, Mr. Goldberg was pointing out to you on January 5 there was a note 11:00 to 7:00. Looking in the right-hand side of the page again, isn't there another note for January 5? A: Yes, there is. Q: Okay. And that's again in the p.m. column? A: Yes, it is, and there is included in it a time of

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	Page 438	Page 439
 Q: So that would be on <i>the</i> 3:00 to 11:00 shift? A: Yes. it would. 	IN THE CIRCUIT COURT OF CC COUNTY DEPARTMEN	
 Q: Okay. Thank you. That's all. MR. GOLDBERG: No further questions, subject to the reservation of my rights that I have described. MS. McDONALD: And we'll reserve signature. (Exhibits 10 through 15 marked for 	NO: 91 L 21091 WARK TURNER, a disabled perso :o-guardians. DIANE TURNER an Plaintis,	
[a] identification.)	r laintis,	
[9] (The deposition concluded at 5:00 p.m.) [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24]	v. CITY OF CHICAGO. a municipal CONTAGIOUS DISEASE HOSPIT Defendants. CERTIFICATE OF COMPL I, MARY ABERNATHY SEAL. New CERTIFY that on February8, 1991 RADETSKY, M.D., was taken befor sealed original thereof retained by: Mr. Barry Goidberg Attorney for Plaintiffs 33 North Dearborn Street. Suite Chicago, Illinois 60602-3197 I FURTHER CERTIFY that copies mailed or delivered to the following represented by counsel appearing	AL, et al., ETION OF DEPOSITION Mexico CCR #69, D 0 HEREBY 6, the deposition of MICHAELS. re me at the request of, and 1930 of this certificate have been counsel and parties not
[25]	deposition.	
	Ms. Barbara A. McDonald	

Attorney for Defendants 30 North LaSalle Street, Room 800

Chicago, Illinois 60602

parties present.

IFURTHER CERTIFY that examination of this transcript and signature of the witness was required by the witness and all

I FURTHER CERTIFY that the cost of the original and one copy of the deposition to the PLAINTIFFS is \$.

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	I FURTHER CERTIFY that I did administer the oath to the	[1	1] TU	JRNER V CITY OF CHICAGO et al	
	witness herein prior to the taking of this deposrlion that I	[2		here are any typographical errors to your deposrlion	
	did thereafter reoon in stenographic shorthand the questions			dicate them below	
	and answers set torth herein and the foregoing is a rrue ana	(3	-	AGE LINE	
	correct transcript of the proceeding had upon the taking of	[4	-	Change to	
	this deposillon to the best of my ability	[5		Change to	
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	I FURTHER CERTIFY that I am neither employed by nor related	[7		Change to	
	to any of the parties or attorneys in this case and that !	(8	-	y other changes to your deposition are to be listed	
	have no interest whatsoever in the final disposition of this			low Wtth a statement as to the reason tor such change	
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