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THE STATE OF OHIO : S.S.: Terrence
COUNTY OF CUYAHOGA : O'Donnell, Jr.

HELEN KUBACH, etc.,
Plaintiff,

VS. : CASE NO. 153602

UNIVERSITY HOSPITALS OF
CLEVELAND, et al.,
Defendants.

DEPOSITION OF JUAN CARLOS AYUS, M.D.

Called as a witness by the Defendants Kursh,
Nearman and Welch, taken before Peggy Ann Antone, a
Certified Shorthand Reporter in and for the State
of Texas, on the 11th day of July, 1989, beginning
at 11:10 a.m., at the Marriott Hotel Medical
Center, Board Room 1, Houston, Texas, pursuant to
Ohio Rules of Civil Procedure and the following
stipulation and agreement of counsel:

A P P E A R A N C E S

CHRISTOPHER M. MELLINO, of the law firm of Charles Kampinski Co., L.P.A., 1530 Standard Building, Cleveland, Ohio, 44113, appearing for the Plaintiffs.

JOHN V. JACKSON, II, and J. RICHARD LUDGIN, of the law firm of Jacobson, Maynard, Tuschman & Kalur Co., L.P.A., 100 Erieview Plaza, 14th Floor,, Cleveland, Ohio, 44114, appearing for the Defendants Drs. Elroy D. Kursh, Howard S. Nearman and Michael Welch.

JOHN R. IRWIN, M.D., Reminger & Reminger Co., L.P.A., The 113 Building, 113 St. Clair Avenue, N.E., Cleveland Ohio, 44114-1273, appearing for Dr. Alan H. Angell and University Hospitals.

1 P R O C E E D I N G S

2 MR. JACKSON: Well, this is a
3 discovery deposition of Dr. Juan Carlos --
4 pronounce your --

5 THE WITNESS: Ayus.

6 MR. JACKSON: Ayus. Okay. I'm
7 assuming formalities regarding notice, et cetera,
8 are waived? Are we going to go through this again,
9 Chris?

10 We play this game with these guys,
11 Doctor. They play with us. It's kind of a game on
12 formalities. Nobody knows quite what that means,
13 but my understanding is they're waived, and if you
14 have something to the contrary, tell me.

15 MR. MELLINO: I don't know what you
16 want to waive.

17 MR. JACKSON: Okay. Can we assume
18 that if you don't have any specific objections
19 which you're going to make here, that whatever
20 formalities there are, are waived?

21 MR. MELLINO: Sure. I can say that.

22 MR. JACKSON: Okay. Fair enough.

23

24 JUAN CARLOS AYUS, M.D.,
25 was called as a witness by the Defendants and,

1 having been first duly sworn, was examined and
2 testified as follows:

3

4 EXAMINATION

5 QUESTIONS BY MR. JACKSON:

6 Q. Dr. Ayus, we're here, **as** you know, for
7 purposes of taking your deposition. You have been
8 identified to us as an expert witness who will
9 testify on behalf of the plaintiffs in this case.
10 Have you been deposed before, sir?

11 A. Yes, sir.

12 Q. All right. You understand, then, that when
13 questions are asked of you by whoever asks the
14 questions, you have to respond orally with a yes or
15 a no if that's appropriate, rather than making a
16 gesture, shaking your head? You do understand
17 that?

18 A. Yes, sir.

19 Q. If I ask you **a** question which you do not
20 understand for any reason, **I may** use **a** word you
21 don't understand, the question may be poorly
22 phrased, but for whatever reason, if you don't
23 understand the question, please don't answer it
24 until you've asked me to explain it. Is that fair
25 enough?

1 A. Yes, sir.

2 Q. I will assume, then, that if you answer a
3 question for me, Doctor, that you've understood the
4 question and that you're answering it honestly and
5 completely. Fair enough?

6 A. Yes, sir.

7 Q. As we started here, we met you just a few
8 moments ago, you handed me a C.V. and you made an
9 indication to us that there are some publications
10 which are not included in that C.V. Is that
11 correct?

12 A. Yes.

13 Q. Are you able to cite those for us or would
14 you need to send us that?

15 A. I can tell you now.

16 Q. Would you, please.

17 A. Yes. One is in the July "American Journal
18 of Medicine." It's an editorial I was asking to
19 write. The name is "The Effect of Bicarbonate in
20 Cardiac Function."

21 And the second is going to be
22 published, also in July, in the "American Journal
23 of Physiology," renal and electrolyte section, and
24 it's "Treatment of Symptomatic Hyponatremia in
25 Rats."

1 MR. LUDGIN: Symptomatic treatment of
2 hyponatremia?

3 THE WITNESS: In rats.

4 MR. LUDGIN: Okay.

5 Q. (BY MR. JACKSON) With those additions, is
6 this C.V. current?

7 A. No. I also become professor of medicine as
8 of May, 1989.

9 Q. Okay. Congratulations.

10 A. Thank you.

11 Q. With those exceptions or additions --

12 A. I think so, yes.

13 Q. -- then, we have a complete C.V.; is that
14 correct?

15 A. Yes, sir.

16 Q. Doctor, it's our understanding that you are
17 going to render some opinions that some of the
18 doctors who cared for Mr. Kubach deviated from
19 accepted standards of medical care in their
20 treatment of Mr. Kubach. Is that a correct
21 understanding?

22 A. Yes, sir.

23 Q. And it's further my understanding that the
24 April 14th letter of 1989 from you to Mr. Kampinski
25 sets forth the opinions which you're going to state

1 in that regard; is that also correct?

2 MR. MELLINO: You mean exclusively?

3 MR. JACKSON: That's what I mean to
4 say.

5 A. This letter points out the immediate cause
6 of death and, you know, of the complication that we
7 saw eventually in Mr. Kubach's death, yes.

8 Q. (BY MR. JACKSON) Okay. Doctor, our
9 understanding is, and what we're relying upon in
10 being here today in this inquiry is that you have
11 set forth the specific criticisms of the specific
12 doctors against who you're going to render opinions
13 in this letter. Is that a correct understanding or
14 is that an incorrect understanding?

15 A. No, it's an incorrect understanding. I was
16 asking to -- let's see. No, I'm sorry. It's a
17 correct understanding, yes.

18 Q. Okay. Very good.

19 A. No, I'm sorry.

20 Q. All right. In your letter, Doctor, you
21 indicate that, **as it relatess** to Dr. Kursh, that
22 you believe Dr. Kursh failed to recognize
23 hyperammonemia in Mr. Kubach and that he failed to
24 treat that with early intubation and mechanical
25 ventilation. Is that one of your criticisms of

1 Dr. Kursh?

2 A. Yes.

3 Q. You also indicate that the opinion you're
4 **going** to state **as** it relates to Dr. Kursh is that
5 he failed to monitor and treat the hyperammonemia
6 that developed in Mr. Kubach. Is that also a
7 criticism of Dr. Kursh?

8 A. Yes.

9 Q. Now, as it relates to Dr. Angell, your
10 report indicates the same two criticisms that you
11 had for Dr. Kursh: One, that he failed to
12 recognize hyperammonemia and treat it with early
13 intubation and mechanical ventilation; is that
14 correct?

15 A. Yes.

16 Q. And, two, that there is a failure by
17 Dr. Angell, also, to monitor and treat the
18 hyperammonemia; am I correct?

19 A. Yes.

20 Q. The only other doctor you mention is
21 Dr. Nearman, and you have the same two criticisms
22 in your letter of Dr. Nearman. You indicate that
23 you believe Dr. Nearman also failed to recognize
24 hyperammonemia and treat it with early intubation
25 and mechanical ventilation; correct?

1 A. **Yes.**

2 Q. And you also indicate that you believe
3 Dr. Nearman failed to monitor the hyperammonemia
4 and to treat it appropriately. Is that -- those
5 your opinions?

6 A. Yes, sir.

7 Q. Okay. It's my understanding that other than
8 what we've just outlined as set forth in your April
9 14th, 1989, letter, you are not going to state any
10 other opinions regarding the care and treatment
11 rendered by health care professionals to
12 Mr. Kubach. Is that a correct understanding?

13 MR. MELLINO: Objection.

14 A. **It** is not.

15 Q. (BY MR. JACKSON) It is not a correct
16 understanding? What other opinions, Doctor, do you
17 intend to state that are not set forth in your
18 April 14th, 1989, letter?

19 A. I intend to make an opinion about the
20 nurses' care.

21 Q. What opinion do you anticipate rendering as
22 it relates to the nurses' care?

23 A. I anticipate to render an opinion about the
24 care of one of the nurses who was on duty the night
25 of Mr. Kubach's respiratory arrest, and in my

opinion, she failed to have a close supervision and
to relay this to the medical personnel.

Q. Who was that nurse, Doctor?

A. Roper, I think.

MR. MELLINO: Lamb?

A. Lamb. I'm sorry.

Q. (BY MR. JACKSON) What was the first name
you mentioned?

A. No, no, no, I was confusing it with --
with -- there were two nurses. One was Roper, I
think, and the other was Lamb, Right? I think it
was Lamb.

Q. When did you formulate your opinion as it
relates to the nurse?

A. After I had the opportunity to review the
deposition.

Q. When was that?

A. After that letter.

Q. Okay. When was that specifically?

A. I cannot tell you for sure, but probably in
the last month and a half.

Q. Do you keep records of the time that you
spend in these matters in reviewing?

A. More or less, yes.

Q. Okay. So somewhere we would have a

1 record -- or you would have a record --

2 A. Yes.

3 Q. -- that you could produce for us that would
4 indicate when you reviewed those things?

5 A. Absolutely.

6 Q. With that exception, Doctor, the -- as it
7 relates to the nurses' care, are you going to
8 render any other opinions regarding the care and
9 treatment received by Mr. Kubach?

10 MR. MELLINO: Objection. He doesn't
11 know what questions he's going to be asked at
12 trial.

13 Q. (BY MR. JACKSON) Have you been asked to
14 render any other opinions other than those that you
15 set forth in your letter and the opinion you just
16 indicated about the nurse?

17 MR. MELLINO: Has he been asked?
18 What's your --

19 Q. (BY MR. JACKSON) Did you understand my
20 question, Doctor?

21 A. No, I don't, sir.

22 Q. Doctor, you know that -- you've been through
23 this before?

24 A. Yes, sir.

25 Q. You know that we've come a long way to

1 explore with you the opinions which you are going
2 to render in this case and the opinions which we
3 understood you were going to render **as** you set
4 forth in your April 14th, 1989, letter. You
5 understand that?

6 A. Yes, sir.

7 Q. Now, today, we discover that in addition to
8 the letter, you have additional -- an additional
9 opinion relating to the nurses, of which I
10 personally was not aware, because all we have is
11 what I read from the letter. You understand that?

12 A. Yes, sir.

13 Q. Now, I am inquiring of you as to whether or
14 not you intend to state any other opinions which
15 are not set forth in either your letter of April
16 14th, 1989, or which you did not just tell me about
17 **as** it relates to the nurse? There's no way we can
18 explore your opinions unless we know what your
19 opinions are going to be.

20 MR. MELLINO: Well, you can ask him
21 questions about specific areas you want to know
22 answers to whether the doctor has an opinion on or
23 not.

24 Q. (BY MR. JACKSON) Are you or have you been
25 asked, Doctor, to render any opinions other than

1 what is set forth in your April 14th, 1989, letter,
2 and your opinion regarding the nurses' care?

3 A. Well, in order to be absolutely truthful, I
4 was asking a lot of questions. I would have to get
5 your help for **you** to ask me specific questions
6 about, you know, a lot of things. I cannot
7 pinpoint exactly at this time -- you know, I review
8 a lot of material, a lot of information, and I just
9 cannot tell you exactly --

10 Q. Doctor, were you asked to render -- you were
11 asked to render an opinion regarding Dr. Kursh's
12 care; am I correct?

13 A. Yes, sir.

14 Q. You were asked to render an opinion
15 regarding Dr. Angell's care; correct?

16 A. Yes, sir.

17 Q. You were asked to render an opinion
18 regarding Dr. Nearman's care; is that correct?

19 A. Yes, sir.

20 Q. And I assume that you were asked to render
21 those opinions at some time before you wrote your
22 letter of April 14th, 1989; is that correct?

23 A. Correct.

24 Q. Now, before your letter of April 14th, 1989,
25 were you asked to render any other opinions

1 regarding the care and treatment received by
2 Mr. Kubach at University Hospitals?

3 A. Before?

4 Q. Before the April 14th, 1989, report to
5 Mr. Kampinski --

6 A. No.

7 Q. -- were you asked to render any other
8 opinions regarding the care provided to Mr. Kubach
9 at University Hospitals?

10 A. I don't recall, no.

11 a. Okay. Well, those are different answers,
12 Doctor. Either you don't recall or no. Were you
13 asked or do you not recall?

14 A. I'm just trying to be --

15 Q. If you have some correspondence or something
16 you need to refer to, Doctor, please do.

17 MR. MELLINO: You're not intending to
18 limit any questions he might be asked at trial
19 about any opinions he might have regarding this
20 case?

21 A. Unless, honestly, I have the thing with
22 me --

23 MR. JACKSON: Yes, I am.

24 A. But I don't -- I don't recall at this time,
25 but I would have to go and refresh my memory, but I

1 don't recall.

2 Q. (BY MR. JACKSON) Well, certainly, I would
3 assume, Doctor, that if **you** were asked to render
4 additional opinions when you wrote your report to
5 Mr. Kampinski of April 14th, 1989, you would have
6 included the opinions you were requested to
7 address; correct?

8 A. Yes, sir.

9 Q. So we can assume, can we not, in all
10 fairness, that in that letter you set forth all the
11 opinions you were asked to render before April 14th
12 of 1989. That's a fair assumption, isn't it?

13 A. Yes,

14 Q. Okay. Now, apparently, at some time since
15 April 14th of 1989, you have been asked to consider
16 or render some additional opinions; correct?

17 A. Yes.

18 Q. When were you asked to render any additional
19 opinions?

20 A. At the time that I was asking to review the
21 other depositions.

22 Q. Okay. Do you have **a** recollection as you sit
23 here today **as** to when that occurred?

24 A. I -- again, **I** think it's probably within the
25 month and a half ago, but I cannot tell you

1 precisely.

2 Q. Okay.

3 A. But I'm sure I can find out, because I have
4 the correspondence.

5 Q. Now, I'm assuming that in preparation for
6 this deposition, you met with either Mr. Mellino or
7 Mr. Kampinski or both at some point in time; is
8 that correct?

9 A. I met today for the first time with
10 Mr. Mellino.

11 Q. Would it be fair to assume that since you
12 wrote your letter of April 14th, you've had
13 telephone communications with Mr. Mellino and/or
14 Mr. Kampinski?

15 A. I have telephone conversation with
16 Mr. Mellino and I believe one time with
17 Mr. Kampinski.

18 Q. Since April 14th of 1989, have you had any
19 written correspondence with Mr. Kampinski and/or
20 Mr. Mellino?

21 A. Only my secretary bills to them.

22 Q. Now, in terms of any other opinions other
23 than the nurses, were you asked to render any other
24 opinions regarding the medical care rendered to
25 Mr. Kubach since April 14th, 1989?

1 A. **No.**

2 Q. You are, therefore, not going to state or
3 have no opinion relating to Dr. Welch; am I
4 correct?

5 **MR. MELLINO:** Objection. **He** may have
6 other opinions as additional facts become known to
7 him.

8 **MR. JACKSON:** What additional --

9 **MR. MELLINO:** Has the transcript of
10 Dr. Welch been transcribed yet, to your knowledge?

11 Q. (BY MR. JACKSON) Do you have an opinion
12 regarding Dr. Welch's care?

13 **MR. MELLINO:** Well, wait a minute.
14 Before -- I thought we had an agreement at the
15 pretrial that he was not going to comment on Welch
16 until he had an opportunity to review the -- his
17 deposition,

18 **MR. JACKSON:** I don't remember an
19 agreement like that.

20 **MR. MELLINO:** Well, it was
21 discussed.

22 **MR. JACKSON:** I don't believe it was,
23 Chris.

24 **MR. MELLINO:** Well, it was.

25 **MR. JACKSON:** I don't believe it

1 **was. I think we're here today for purposes of**
2 exploring this doctor's opinions. Now, you have
3 refused to answer direct questions put to you in
4 interrogatories. We have requested those answers
5 in at least three different times in --

6 MR. MELLINO: Interrogatories aren't
7 directed to attorneys.

8 MR. JACKSON: You're saying that
9 attorneys don't assist their clients in answering
10 interrogatories **so** we can explore the claims of the
11 plaintiff?

12 MR. MELLINO: Well, you --

13 MR. JACKSON: I don't want to get
14 into that argument with you, but that's a clear --
15 there's no question about that. We have -- we have
16 a report from the doctor which purports to set
17 forth the opinions he is going to state in this
18 case, and we've come **a** long way to take his
19 deposition for discovery purposes. Now --

20 MR. MELLINO: It's been **a** long time
21 without asking any questions about what his
22 opinions are.

23 MR. JACKSON: I haven't -- I don't
24 want to play games with you, but I have been trying
25 to get to what those opinions are.

1 MR. MELLINO: That's all you've done
2 since the deposition started.

3 MR. JACKSON: Exactly, because I
4 don't know what to explore because I don't know
5 what his opinions are, do I?

6 MR. MELLINO: Why don't **you** ask **him**
7 what **his** opinions are?

8 MR. JACKSON: I just did.

9 MR. MELLINO: No. **So** far you've
10 asked him what his opinions aren't.

11 Q. (BY MR. JACKSON) Doctor, **as it** relates to
12 Dr. Welch, are you going to state any opinion that
13 Dr. Welch deviated from accepted standards of
14 medical care?

15 MR. MELLINO: Objection.

16 A. Dr. Welch, **if** I recall correctly, is an
17 anesthesiologist?

18 Q. (BY MR. JACKSON) Yes, **sir**.

19 A. For the information I was able to gather
20 from the medical record, I don't believe that he
21 deviated from the medical care.

22 Q. Okay. So as far **as** he is concerned, you're
23 satisfied he gave this man good medical care, from
24 what you reviewed in the records?

25 A. From what I reviewed, yes.

1 Q. And I assume that you reviewed the entire
2 medical chart as it relates to Dr. Welch and to the
3 care of Mr. Kubach?

4 A. I review all the information that was
5 provided to me. I don't know if this is entire
6 chart, but whatever was provided to me, I review.

7 Q. Tell me what it is you reviewed.

8 A. Well, I review the records that were sent to
9 me from Mr. Mellino, the depositions, the -- all
10 the -- all the ancillary information that was
11 coming with that.

12 Q. Do you have handy here today, Doctor, some
13 indication by way of a file or by some listing of
14 the materials that you specifically reviewed in
15 preparation for opinions in this case?

16 A. No, I don't. I was not asking to bring
17 that. I didn't.

18 Q. Were you asked not to bring that with you
19 today?

20 A. No, no, no. Nobody asked me to bring it.
21 Nobody told me not to bring it. I -- you know.

22 Q. All right. We need to know what you
23 reviewed. What medical records did you review?

24 A. The medical record, again, that copies of
25 the medical record that I think were from the

1 University Hospital.

2 Q. Okay. What depositions did you review?

3 A. I review the deposition of Dr. Angell,
4 Kursh, Nearman, two nurses, and I believe another
5 doctor which, with an Indian name. It escapes --

6 Q. Jayanthi?

7 A. Yes.

8 Q. What other materials did you review?

9 A. As I said, the material that was brought to
10 me, but I don't recall exactly, you know --

11 Q. Do you maintain some file as it relates --

12 A. I do.

13 Q. And where would that file be?

14 A. My office.

15 Q. Where is your office as it relates to where
16 we are located at this instant?

17 A. Oh, close, you know, to the medical center.

18 Q. Okay. Would you please call your secretary
19 and ask her to bring over your file as it relates
20 to that?

21 A. She is sick today. But, you know, if you
22 want to -- we can --

23 Q. Must be someone there that could bring that
24 over.

25 A. No, there's not.

1 Q. All right. How long would it take you to
2 get there and back, Doctor?

3 MR. MELLINO: Too long.

4 Q. (BY MR. JACKSON) How long would it take you
5 to get there and back, Doctor?

6 A. 30 minutes.

7 Q. How long?

8 A. 30.

9 Q. 30 minutes to get to the medical center and
10 back?

11 A. No, no, to my office. But I go. It's no
12 problem.

13 Q. Okay. And there's no one at your office now
14 who could bring the records that you reviewed?

15 A. No, because I got -- that I have in a
16 special place.

17 Q. Well, help me, Doctor, because we don't know
18 what you reviewed. We're entitled to know that.

19 A. I'm telling you.

20 MR. MELLINO: He's just told you what
21 he reviewed.

22 Q. (BY MR. JACKSON) What is the ancillary
23 material that you reviewed, other than the medical
24 records and the depositions you just outlined?

25 A. The ancillary material is, I think, is a

1 review of the -- was like a summary that was done
2 by somebody else, that helped me out when -- you
3 know, with the lab values. That's what I'm talking
4 about. These people were constructing the values
5 from the medical chart, putting the table, and I
6 was -- allow me to **go** this in a -- in a more
7 quickly way, **if** you want it.

8 Q. So someone had prepared a summary which
9 extracted certain information from the medical
10 records and put it into a table or some flow chart
11 or something?

12 A. Not information, but, basically, times of
13 what the blood was draw, you know, something like
14 that.

15 a. Okay. Were there any other materials that
16 you reviewed, other than the sheets you just
17 described to us?

18 A. I don't recall. No, I don't think so.

19 Q. Okay. Would that be what you'd describe as
20 a flow sheet?

21 A. I believe so, yes.

22 Q. Okay. You reviewed the depositions you've
23 outlined for us, you reviewed the medical records
24 that were provided to you, and you reviewed a flow
25 sheet; correct?

1 A. Yes.

2 Q. With that exception or with those
3 exceptions, I'm assuming you reviewed no other
4 materials in formulating **these** opinions. Am I
5 correct?

6 MR. MELLINO: **Are** you asking him
7 about medical literature, too?

8 MR. JACKSON: I didn't get to that.

9 MR. MELLINO: Okay.

10 A. Again, just want to be absolutely -- I think
11 that that's probably -- yes.

12 Q. (BY MR. JACKSON) **Okay**. Did you have to do
13 any medical research to prepare you for the
14 opinions which you've rendered, either in the
15 deposition or orally?

16 A. I --

17 Q. Excuse me. In the letter or orally?

18 A. I did.

19 Q. What research did you do?

20 A. Oh, I -- well, I'm do -- this is my basic
21 area of expertise and, basically, I did a search on
22 the syndrome of hyperammonemia after transurethral
23 resection, and I just find the pertinent articles
24 and send it to Mr. Mellino and Mr. Kampinski.

25 Q. Okay. Would you cite for me the articles

which you believe are pertinent to this particular case?

A. Well, I cannot tell you by name, but it was published in the "Journal of Urology" in 1983, I believe, was the original description of this syndrome, and subsequent are probably two other articles, one in urology, I believe, and the other is also in the "Journal of Urology," which describes specifically the hyperammonemia as a complication of the TURP, and it's a recent paper, I think, in 1980 -- I think it's in 1988 or 1989.

And, in the "Green Journal," which addresses hyperammonemia as a complication of chemotherapy, you know, but, also, emphasizing the fact that these patients tend to have respiratory depression as the hallmark of the syndrome.

Q. Okay. Other than the -- can you cite for us any of the authors of these articles?

A. No.

Q. You would have somewhere a list of the --

A. Oh, I do.

Q. You do have **those**?

A. Oh, yes.

Q. Would those be included in this file that you have maintained?

1 A. Some of them, because I -- others, I -- in
2 another office, where I have the other articles,
3 yes.

4 Q. Okay. Would this flow sheet that you have,
5 that you reviewed, would that also be included with
6 your file?

7 A. I don't know. Probably.

8 Q. Well, tell me what would be in the file that
9 you have as it relates to this case.

10 A. I don't have any idea, because I'm --
11 actually reviewing several case **and** it's --
12 everything there, but I cannot tell you. Sometimes
13 I take things at home to do my, you know, and I
14 don't know if I took things at home in preparation
15 for this deposition or not.

16 Q. Doctor, did you review your file before you
17 came here today?

18 A. **No.**

19 Q. Did *you* review it within the last couple of
20 days?

21 A. Yes.

22 Q. When did you review it last?

23 A. I think I did it some -- yesterday
24 afternoon, after talking with Mr. Mellino.

25 Q. Okay.

1 A. Yes.

2 Q. Why did you not bring your file with you
3 today?

4 MR. MELLINO: He's already answered
5 that.

6 A. I never do.

7 Q. (BY MR. JACKSON) You never bring your file
8 with you to these matters?

9 A. No. Unless somebody, the lawyers or
10 somebody, request in advance that I do.

11 Q. Doctor, in what areas of medicine do you
12 consider yourself to be an expert?

13 A. Internal medicine and nephrology.

14 Q. Would you tell me what your understanding of
15 Mr. Kubach's condition was when he was admitted,
16 his status when he was admitted to University
17 Hospitals **was**?

18 A. He was a male patient that was suffering
19 from lower urinary symptomatic obstruction, and he
20 was felt by Dr. Kursh, which I believe was the
21 attending urologist, to have enlargement of the
22 prostate, which **was** responsible for his symptom,
23 and he was scheduled to have an elective operation
24 for relief of the obstruction.

25 Q Is that the extent of your understanding as

1 it relates to Mr. Kubach's status?

2 A. In relation to what?

3 Q. In relation to how this man presented, what
4 his medical history was, what his status was when
5 he presented? Have you just described your
6 understanding, the extent of your understanding in
7 that regard?

8 A. From the urologic standpoint, yes.

9 Q. Okay. What is your understanding, Doctor,
10 of Dr. Kursh's role as it relates to Mr. Kubach?

11 A. He was his doctor. He was the attending
12 physician who supposed to do the operation and was
13 in charge of the case.

14 Q. What is your understanding of Dr. Angell's
15 role as it relates to Mr. Kubach?

16 A. He was the urology resident who will assist
17 Dr. Kursh in the operation and the follow-up and I
18 think he also did the initial evaluation of the
19 patient.

20 Q. What's your understanding of the role of
21 Dr. Nearman in Mr. Kubach's care?

22 A. He **was** the director of the surgical ICU.

23 Q. Have you, in any of the writings that are
24 set forth here in your C.V., done any writing or
25 research as it relates specifically to the

1 hyperammonemia?

2 A. No.

3 Q. Do any of your publications which are set
4 forth in your C.V. relate directly to any of the
5 criticisms that you have against any of the doctors
6 here?

7 A. Yes,

8 Q. Which of those would they be? Would you
9 just put a mark by them on the C.V. for us?

10 A. 16, 33.

11 Q. Okay.

12 A. And if I may, when you said if I did some
13 work in relation to hyperammonemia, I believe that
14 we were -- while we didn't describe the syndrome,
15 as such, in the two publications regarding
16 hyponatremia, we encounter similar complication in
17 which patients develop the hyperammonemia.

18 a. These are the two articles that you've
19 marked?

20 A. This is.

21 Q. 16 and 33?

22 A. 16 dealing with hyponatremia associated with
23 transurethral resection and both patient also have
24 complication with hyperammonemia.

25 Q. Okay. So that we have it on the record, the

1 number 16 is "Rapid Correction of Severe
2 Hyponatremia with Hypertonic Saline Solution," and
3 that's in the "American Journal of Medicine,"
4 volume **72, pages 43 to 48, 1982**; correct?

5 A. Uh-huh. Well, let me go exactly what -- of
6 the seven patient that were described there, we
7 have one patient who developed hyponatremia after
8 transurethral resection, and that individual, in
9 addition to the hyponatremia, also had respiratory
10 problems and needed intubation and was find to have
11 a high level of ammonia.

12 Q. What was the level of ammonia in that
13 patient?

14 A. I don't recall.

15 Q. Article 33 is an article authored by you
16 entitled "Treatment of Symptomatic Hyponatremia and
17 Its Relation to Brain Damage: A Prospective
18 Study," published in the "New England Journal of
19 Medicine," volume **317, pages 1190 to 1195, in 1987**;
20 am I correct?

21 A. Yes, sir.

22 Q. With those two exceptions, the rest of your
23 articles do not directly relate to your criticisms
24 that you have against the doctors in this case; is
25 that correct?

1 A. Yes.

2 Q. Would you explain to me, Doctor, as it
3 relates to those two articles, how you believe they
4 relate to the criticisms you have to these doctors
5 or against these doctors in this case?

6 A. Well, basically, specifically, in the "New
7 England Journal of Medicine," we emphasize the
8 importance of early intubation of, you know -- of
9 the prevention of the respiratory problems in
10 patient with hyponatremia, and I believe in the --
11 in our series, we have, I think, two or three
12 patients who develop hyponatremia secondary to
13 transurethral resection and, again, one of them, in
14 addition to the low sodium, had a high ammonia, and
15 he was intubated for that.

16 Q. Okay. What did you understand Mr. Kubach's
17 general medical condition to be when he was
18 admitted to the hospital?

19 A. That he was a 76-year-old male who has an
20 inability to walk and he is questioned by the
21 history to be somehow senile dementia.

22 a. What was your understanding of his general
23 medical history?

24 MR. MELLINO: You're asking him as
25 it's reflected in the medical chart from University

1 Hospital?

2 MR. JACKSON: I think the question
3 was what his understanding of it was. Wasn't that
4 the question?

5 MR. MELLINO: Well, how would he have
6 an understanding? He never saw this guy.

7 MR. JACKSON: Why is he rendering
8 opinions? I'm asking what his understanding of the
9 medical --

10 MR. MELLINO: It's basically out of
11 the medical record. If you want him to read the
12 medical -- you have the history out of the medical
13 record.

14 MR. JACKSON: I'm asking him his
15 understanding, whether that came from you or the
16 medical records or whatever source. I'm entitled
17 to know his understanding.

18 Q. (BY MR. JACKSON) Do you understand my
19 question to you, Doctor?

20 A. Yeah, but I don't believe that it's, with
21 all respect, well phrased. I was asking to render
22 an opinion what happened to Mr. Kubach after
23 surgery, and in that regard, I'm confident that I
24 have all the information for me to do that.

25 Q. Okay.

1 A. With regard to his previous medical
2 condition, I just cannot do that because I was not
3 entitled to his entire history, neither to have an
4 examination done by myself.

5 Q. When were you first contacted as it relates
6 to this matter, Doctor?

7 A. Several months ago.

8 Q. When, specifically?

9 A. Again, I cannot tell you about that, but I
10 can find out.

11 Q. That would be reflected in your file and
12 your time records?

13 A. Yes, sir.

14 Q. Okay. I'm going to ask you to do that and
15 we're going to make a request that you provide that
16 information to us. Okay?

17 A. Yes, sir.

18 Q. Now, before you wrote your report of April
19 14th, 1989, did you give an oral report to
20 Mr. Mellino or Mr. Kampinski?

21 A. I believe that we discussed the case over
22 the phone, yes.

23 | Q Did you give any other written reports other
24 than your letter of April 14th, 1989?

25 | A No, sir.

1 Q. Did you render any other opinions in writing
2 in any way other than that report of April 14th?

3 A. No, sir.

4 Q. You did render **some** oral opinions after your
5 letter of April 14th, 1989; is that correct?
6 That's relating to the nurses, specifically.

7 A. Yes, sir.

8 Q. That was the only additional opinion after
9 that letter which you rendered either orally or in
10 writing; correct?

11 A. Yes, sir.

12 Q. Doctor, are there -- are there any specific
13 texts or journals to which you as a practicing
14 physician would refer for information regarding the
15 medical topics which are the subject of this case?

16 A. Without being presumptuous, my own articles
17 will serve.

18 Q. You would --

19 A. I --

20 Q. If you had to make a reference to either --
21 medical literature --

22 A. Yes.

23 Q. -- either texts, journals, or whatever
24 source, relating to the topics, the medical topics
25 involved in this case, you would go to your own

1 articles and the research that was done in your
2 own -- you would rely upon that? Is that what
3 you're telling me?

4 A. No, I'm telling you that part of that -- my
5 articles are dealing with the subject of
6 hyponatremia, acute and chronic, the animal studies
7 and the human studies, articles by other people,
8 and textbooks.

9 Q. Okay. What textbooks would you refer to,
10 would you rely upon?

11 A. Specifically for hyponatremia in
12 transurethral resection?

13 Q. That and hyperammonemia.

14 A. I think any general textbooks on nephrology
15 will address the issue of hyponatremia after
16 transurethral resection. However, I think the
17 hyperammonemia, **as** such, is not well described in
18 the textbooks. We are putting one now, but it's
19 well known in urologic. It's more -- it's more
20 known to urologists than to nephrologists or to
21 internists in general, because was described
22 initially in the urologic literature. And I
23 believe that the original article in 1983 was
24 published in the "Journal of Urology." And this is
25 from a group of Michigan.

1 Q. Now, other than what you've just described,
2 would there be other texts or journals -- you said,
3 generally, urology texts. I'm wondering if you can
4 cite any for us, that you would rely upon or refer
5 to.

6 A. You know, I don't have it in mind, but, **as** I
7 said, I rely in the articles that would describe
8 the original syndrome.

9 Q. What authors would you look to, if you can't
10 cite specific texts? What authors would you look
11 to for reliance upon issues as it relates to
12 hyperammonemia, hyponatremia, other than yourself?

13 A. Well, people who work in the field,
14 Dr. Allen Arieff, which is one of the co-authors.

15 Q. What's his name?

16 A. Arieff.

17 Q. Can you spell it?

18 A. Let me see I can. Okay. It's **A R I E F F**.
19 Arieff is a co-author in some of my publications,
20 and Dr. Krothapalli, which is **also** co-author.

21 Q. Would you spell that for us?

22 A. It's tough for me to. He's another
23 co-author in my work.

24 MR. LUDGIN: Which reference number
25 are you pointing to, Doctor?

1 THE WITNESS: I point to several
2 doctors.

3 MR. MELLINO: 33. 33.

4 MR. LUDGIN: Just give me one so I
5 can spell it later.

6 THE WITNESS: 33.

7 MR. LUDGIN: Fine. That's all I
8 need.

9 A. Other people who work in the field in
10 hyponatremia, has done some work, is Dr. Robert
11 Anderson.

12 Q. (BY MR. JACKSON) A N D E R S O N, I
13 assume?

14 A. Yes.

15 Q. Okay.

16 A. Dr. Frank Epstein.

17 Q. Can you spell that? Give it your best
18 shot.

19 A. Let me see. I think it's E S P T E I N.

20 Q. Epstein?

21 A. Epstein.

22 MR. LUDGIN: E P S T E I N?

23 THE WITNESS: Yes.

24 Q. (BY MR. JACKSON) Epstein. Okay.

25 A. Frank.

1 Q. Where is he located?

2 A. He's the chairman of nephrology at Beth
3 Israel in Boston.

4 Q. How about Anderson? Where he's located?

5 A. Robert Anderson, I think, is in University
6 of Colorado.

7 Q. And how about Arieff? Where is he?

8 A. University of California in San Francisco.

9 Q. Anybody else?

10 A. Not that I consider --

11 Q. Expert in the field?

12 A. -- **expert** in the field of hyponatremia and,
13 you know -- and I think -- I'm sure there's a lot
14 of other people, but, you know, people who I just
15 relate the most.

16 Q. Now, would those individuals who are authors
17 also be individuals who would have written and you
18 would consider experts in the area of
19 hyperammonernia?

20 A. No, I don't believe that -- none of these
21 people has written specifically on the issue,
22 hyperammonemia.

23 Q. Would you consider any of those people
24 experts in the area of hyperammonemia?

25 A. I don't know about that. I thought that you

1 were asking me about hyponatremia.

2 Q. That was -- that was my first question.

3 A. Okay. Okay. I'm sorry.

4 Q. That was **my** first question. I'm asking
5 hyperammonemia now.

6 A. Okay. The hyperammonemia issue, I would
7 have to rely on the people I just mentioned is in
8 the urologic literature, but I can tell you that
9 it's people who have done work in metabolics of the
10 ammonia production, and among them is
11 Dr. Halperin. I think it's Mark Halperin from
12 Toronto.

13 Q. A L P E R, something like that? Oh,
14 Halperin. H A L P --

15 A. Yes. P E R I N.

16 Q. Okay.

17 A. And I think a Dr. Richard Tannin has done,
18 also, work. He is in the University of Michigan.
19 And these are people who have done work on
20 metabolics of ammonia; okay?

21 Q. Specific studies in that area?

22 A. Specific metabolic studies.

23 Q. Okay.

24 A. The issue, again, of hyperammonemia after
25 transurethral resection is mostly in the urologic

1 literature and I'm more than happy to bring the
2 article to you or send you a copy of the original
3 description.

4 Q. Doctor, what is hyperammonemia?

5 A. Is an increase of ammonia level above the
6 normal values.

7 Q. And what would the normal values be?

8 A. I think it depend on the lab, but I think **up**
9 to 40, at least, what I, you know -- Methodist, I
10 think, the high level is 35.

11 Q. 35 what?

12 A. 35 expressed in nanograms, I think.

13 Q. In terms of **Mr.** Kubach, what would an
14 increased level -- what would normal be, first of
15 all?

16 A. In him?

17 Q. In **Mr.** Kubach.

18 A. I don't know what was normal, because I
19 didn't see a normal value. The only thing I **saw**
20 was **a** value of **94**, I believe, and subsequent,
21 something in the 300's, 350, something like that.
22 I don't know. If I would check the ammonia level
23 random, depend of the, you know, normal. When you
24 define normal, you define the upper limit. Okay?
25 Many people **would** have two, three as a -- as a

1 value; okay?

2 Q. Hyperammonemia is, as you indicate in your
3 report of April 14th, 1989, a well-known
4 complication after a TURP procedure; is that
5 correct?

6 A. Is well known in the literature of related
7 to this syndrome, yes, sir, related to this
8 syndrome of --

9 Q. The syndrome being --

10 A. Being --

11 Q. -- hyperammonemia?

12 A. Yes.

13 Q. What, in general, causes hyperammonemia?
14 Physiologically, what causes it?

15 A. Well, an increase in ammonia production.
16 Related to this specific case or in general?

17 Q. First, in general.

18 A. Well, when you have an example is a liver
19 failure problem, okay, a patient with hepatic
20 problem, which cannot handle the normal metabolites
21 of urea because the liver is impaired. Rather than
22 have the normal cycle of urea, which is one of the
23 metabolites that take place in the liver, that goes
24 into ammonia and increases the ammonia level;
25 okay?

1 The other source of ammonia
2 production is the kidney, and the kidney takes that
3 as a mechanism to get rid of the hydrogen
4 production. That's one of the ways that the kidney
5 can get rid of the **normal** hydrogen production is
6 through normal excretion.

7 Means, in patients, the most common
8 cause of ammonia toxicity that I will see as an
9 internist will be patient who have liver failure
10 and are subject to increased protein load,
11 increased protein intake, or has GI bleeding. Any
12 source of loading, you know, the liver with an
13 extra amount of protein that cannot be handled
14 through the normal pathway of urea can increase
15 ammonia production.

16 Q. What **was** the specific cause of
17 hyperammonemia in this case, in Mr. Kubach's case?

18 A. Well, the solution that is conventional --
19 let me -- if you don't mind, let me give you
20 background of what to understand. When you do a
21 **TURP**, the surgeon introduce a tube and have to have
22 an open field to visualize the resection that is
23 going to take place. In order to do the resection,
24 he is using an electric tool. He's using
25 electricity to, **you** know, and in order to keep the

1 field open, he have an irrigant solution. That
2 solution, by definition, have to be nonelectrolyte
3 solution, cannot have any electrolytes. If you
4 have an electrolyte solution and you have
5 electricity, you remember **from** physics, you have
6 conductivity of electricity and you would kill --

7 Q. They couldn't do the procedure?

8 A. No, you could do the procedure, but you have
9 two deaths, have the patient and the surgeon.
10 That's not very healthy for either one.

11 Since that became a problem, many
12 things were interchanged. Among them was the use
13 of distilled water. For some, like myself, that
14 came from the old days, I remember when I was
15 medical student in Argentina that people who got
16 what is called TURP syndrome, because you used
17 distilled water and distilled water will prevent
18 this thing to happen, but we have another problem,
19 which is swelling of the red cells because you have
20 a problem with hypotonicity and the red cell will
21 swell, have a significant hemolysis, and the
22 patient will have either acute renal failure or
23 pulmonary edema.

24 At that time, people were -- thought
25 how can we prevent this problem, and trying to come

1 out with a solution that will have an osmolarity --
2 I don't know if you're familiar with that term --
3 that will prevent red cell to swell and to break
4 down. I think in 1988, if I'm not mistaken, people
5 come out with idea of using glycine. Glycine is a
6 nonessential amino acid, and the solution that we
7 conventionally use is 1.5 percent glycine. That
8 solution has an osmolarity, I think, around 220,
9 235. I'm not -- don't hold me that. Will prevent
10 the hemolysis to occur, but, nevertheless, is a
11 hypotonic solution with regard to the normal
12 osmolarity of the individual, which is around 280.

13 Q. You're talking about the blood?

14 A. Right. If you have a situation in which a
15 vessel is ruptured or the capsule of the prostate
16 is perforated, you have theoretically the
17 possibility of infusing significant amount of
18 glycine into the body. If a person is able to
19 excrete that glycine after the obstruction is
20 relieved, what we see, and we did some study, we
21 never published that, we did a large study when I
22 was chief of nephrology at Ben Taub and we find out
23 that you have a transient deterioration of the
24 renal -- the sodium. The sodium will come out from
25 130 to 134, 135, after surgery and eventually will

1 come back to normal. Not very common, but,
2 nevertheless, well-known complication. Patient can
3 develop what is called water intoxication, acute
4 water intoxication, which is the **result** of
5 significant amount of glycine be absorbed and
6 dilute the serum sodium into the body, and as a
7 result of that the brain will swell and the patient
8 will have, you know, obtundation, convulsion,
9 coma.

10 That's the -- hyponatremia is one of
11 the complication of the TURPs. Interesting enough,
12 what many people began to notice, however, that
13 some patients who develop hyponatremia began to
14 deteriorate neurologically after the hyponatremia
15 was been corrected, was a disassociation, and that
16 alerted people, said, wait a minute. That must be
17 something else besides the conventional thinking of
18 this old hyponatremia. What could be the problem?
19 And from metabolic studies has suggest the glycine
20 can shunt into metabolic pathway and can increase
21 ammonia production, and that's what I'm just trying
22 to refer, that when you infuse glycine, you can
23 have two complications. One is the hyponatremia,
24 **as** I described, and the other is the
25 hyperammonemia, and what Mr. Kubach have is the

1 hyponatremia that was properly treated, and I don't
2 have no problem with that. Actually did it by the
3 book, by what we recommended.

4 But interesting enough, when the
5 patient is begun to **have** a **serum** sodium which is
6 reaching the level at which you don't see any
7 problem, but the patient should begin to improve,
8 he began to have neurologic deterioration, and at
9 that time, I believe that the people failed to
10 recognize that what happened to Mr. Kubach is that
11 he began to have the other complication which was
12 hyperammonemia.

13 Q. At what point in time do you believe the
14 hyperammonemia should have been recognized?

15 A. Well, I think it -- **as** I said, the most
16 important thing will be to the doctor should become
17 aware why a patient when the sodium began to be
18 corrected -- I think it was around 4:00, and
19 please, don't hold me, but the sodium began to be
20 around **121, 124**, in the afternoon, why, at that
21 time, the patient is getting more obtunded, and I
22 think it was the level of ammonia at that time,
23 which I think it was around 94. I don't know was
24 done at that time or before that.

25 Well, again, I think the treatment of

1 this symptom is very simple. Just prevention is
2 the only thing you can do, because you need to be
3 sure that you will give enough time for this
4 ammonia to be metabolized, and the only thing you
5 need to be aware is the respiratory complications,
6 and since respiratory complication can occur
7 abruptly, what you need to do is to intubate the
8 patient to prevent that.

9 Q. At what point in time do you feel that they
10 should have recognized the hyperammonemia? Was
11 that 4:00? Is that your statement?

12 A. Oh, maybe earlier. Again, I -- if you can
13 give me the data, go over that, I will more -- but
14 I think --

15 Q. Do you have a copy of what you reviewed in
16 rendering your opinions here?

17 A. No, I don't, but do you have the record of
18 the hospital? I'm more than happy --

19 MR. JACKSON: Do you have a copy of
20 the chart here?

21 MR. MELLINO: Didn't you bring one?

22 MR. JACKSON: I don't have a complete
23 copy of the chart here, no, If you have one, we'll
24 let him -- I assume you have what you sent him.

25

1 (Discussion off the record.)

2

3 MR. MELLINO: What do you want him to
4 **look at?**

5 MR. JACKSON: Whatever he needs to
6 look at to be able to answer that question.

7 MR. MELLINO: What's the question?

8 Q. (BY MR. JACKSON) Do you remember the
9 question, Doctor?

10 A. Yes. At what time we think that the patient
11 probably need to be intubated.

12 Q. What time do you think they should have
13 recognized the hyperammonemia?

14 A. Well, let me -- let me -- I think --

15 MR. MELLINO: He already answered
16 that question.

17 A. Yes. Any time that you see hyponatremia
18 resulting from transurethral resection, you know
19 there is another complication that can occur,
20 because by the fact that you have a significant
21 amount of glycine that will produce hyponatremia,
22 is over -- is a possibility that that same glycine
23 can go have a shunting pathway **and** produce ammonia
24 toxicity. Means the source of the problem is
25 there, and I think it's good practice just to be

1 aware of that problem and to follow the patient
2 very, very closely and to decide at what time the
3 patient should be intubated. That is -- most
4 likely reflects when you see that the patient is
5 not getting better, but is getting worse, at the
6 time that the sodium is going up.

7 Q. Okay. Doctor, that is a clinical
8 judgment -- correct? -- as to when the patient
9 should be intubated?

10 A. Not really, sir. Everything is a clinical
11 judgment.

12 Q. Well --

13 A. But --

14 Q. That's not true. Everything isn't a
15 clinical judgment in medicine. You would agree
16 with that? You're not saying everything in
17 medicine is a clinical judgment based upon the
18 opinion of the physician and his clinical
19 observations, are you?

20 A. Rephrase that question, John, please.

21 Q. Okay. As it relates to what you were
22 describing here, there's -- there is some point in
23 time, in your opinion, in the course of this
24 patient's care that he -- that Mr. Kubach should
25 have been intubated. Am I understanding you

1 correctly?

2 A. Yes, sir.

3 Q. Now, the determination of that point in
4 time, in your opinion, would rely upon certain
5 information that is available to the physician, his
6 observations, what he's seeing, things of that
7 nature; am I correct?

8 A. Putting all together; **yes**.

9 Q. Okay. Now, one of the most important things
10 would be the observation of the doctors that are
11 there with the patient as to how the patient's
12 condition is; would that not be correct?

13 A. Unfortunately, no, in this syndrome. Let me
14 explain why.

15 Q. Okay.

16 A. It's nothing more frustrating to try to **make**
17 a judgment or a clinical diagnosis of respiratory
18 failure. Respiratory failure is a diagnosis that
19 **you** make by blood gases, means, when you -- when
20 you have somebody which, you know, you don't know
21 the status of the blood gases, you don't know if
22 the guy's becoming apoxic or hypercapnic. You
23 know, you can have some clinical hint, but the
24 definite diagnosis relate in checking the
25 oxygenation with blood gases, you know. In my

1 experience, I have patients who by one just -- just
2 a moment, the patient will be breathing normally
3 and five minutes later goes into respiratory
4 arrest, and when you look the blood **gases**, what the
5 people were describing breathing normal were blood
6 gases didn't agree completely. Means, this is one
7 of the clinical condition in which, unfortunate,
8 clinical judgment cannot do the job alone.

9 Q. Doctor, as it relates to Mr. Kubach, he had
10 a healthy liver, did he not?

11 A. I cannot make an opinion about that.

12 Q. We have no indication that he had liver
13 disease or a liver problem.

14 A. Again, you know, you can have -- I can tell
15 you that I have patient who has normal liver
16 function tests, and during routine surgery, when a
17 biopsy is done of the liver, find cirrhosis.
18 Means, by history, it's very important. I don't
19 recall if we have any evidence that Mr. Kubach have
20 any history of liver disease.

21 Q. Okay. Do you, as you sit here today, can
22 you indicate any evidence in this file that would
23 indicate to you that Mr. Kubach had a liver
24 problem, a liver disease?

25 A. I would have to review again the thing, but,

1 you know --

2 Q. Certainly, that would be an important
3 consideration for you, would it not? I mean, you
4 would have picked that **up** if -- if --

5 A. I'm **sure**, yes.

6 Q. Okay. Is there anything that comes to mind,
7 Doctor, that indicates to you that he had **a** liver
8 problem?

9 A. I don't recall at this time. No, I don't --

10 Q. Okay.

11 A. -- think so.

12 Q. And it's also clear that he had no kidney
13 problems that we're aware of. Isn't that also
14 true?

15 A. No, wait a minute. That's maybe not true.
16 Let me see the admission BUN and creatinine.

17 MR. MELLINO: The labs?

18 THE WITNESS: Yes.

19 MR. MELLINO: These are all the
20 labs.

21 THE WITNESS: Let me -- when the
22 patient was admitted? Could you remember the day?

23 MR. MELLINO: It was the 27th.

24 MR. IRWIN: 26th.

25 MR. MELLINO: 26th?

1 THE WITNESS: 26th.

2 a. (BY MR. JACKSON) You're looking for the BUN
3 and creatinine tests?

4 A. Yes. Okay. Well, he was admitted the
5 26th?

6 Q. (Counsel indicated by nodding head.)

7 A. Okay. I have a BUN of 19 and creatinine of
8 1.3. I know we have a physician here, he's a
9 lawyer, too, and let me address.

10 Q. Nephrologist, Doctor.

11 A. Nephrologist. Good. He would understand
12 that. The issue of a normal BUN, a normal
13 creatinine, is not by no means extrapolated or
14 equal to normal glomerulofiltration rate. Give an
15 example. You can lose 50 percent of your renal
16 reserve, 50, because you can go from theoretically
17 120 to 60, okay, and you can have normal serum
18 creatinine, normal BUN. Moreover, in elderly
19 people, okay, elderly people, serum creatinine is
20 reflection of the muscle mass. When you become
21 older, your glomerulofiltration rate **goes** down,
22 because you have obliteration of the glomeruli, and
23 you can predict by age what would be the
24 creatinine, age 80, say, around 30 to 40 percent
25 normal.

1 Nevertheless, the serum creatinine in
2 the elderly people doesn't go up, and the basic
3 mechanism is, because your muscle goes down and
4 since serum creatinine is a reflection of body
5 mass, in elderly person with a normal serum
6 creatinine can have, nevertheless, significant
7 degradation of glomerulofiltration rate.

8 Q. That's possible, you're saying?

9 A. It's not possible. It's very likely.

10 Q. Okay.

11 A. In other words, we did the study of older
12 people and elderlies who comes to the hospital,
13 just for routine surgery, and has normal serum
14 creatinine, normal, quote, by standards, you
15 measure the creatinine clearance and these people
16 are 70 percent from normal. That is a very
17 important information that everybody should be
18 aware, not only in this situation, but in the
19 handling of drugs, specifically, antibiotics,
20 because one of the complications that we encounter
21 in the elderly is when we began to give the routine
22 dosage that everybody is getting, you can get into
23 trouble.

24 Means, answer to your question, I'm
25 sorry,, sir, that the 19 and 1.3 does not assure me

1 that the patient has normal renal function in terms
2 of glomerulofiltration rate.

3 Q. Now, this is when he was admitted; correct?

4 A. Yes, sir.

5 Q. And we know that he was admitted with an
6 obstruction; correct?

7 A. Yes.

8 Q. Now, would you look to the value on the
9 morning of surgery?

10 A. Yes.

11 a. What was the value on the morning of
12 surgery?

13 A. 10 and .8. That's exactly my point, sir.
14 That's exactly what I was telling. You see what it
15 is? It's very interesting. You pick up. That's
16 good. By the following day, he drop 50 percent, 50
17 percent from the BUN and 75 percent from the
18 creatinine. Means that in this guy, 19 and 1.3 was
19 significant in terms of renal function abnormality,
20 because when the obstruction was relieved, the
21 renal function improved.

22 Q. Are you stating, Doctor, that it is your
23 opinion that Mr. Kubach had a kidney problem, a
24 kidney disease?

25 A. No, sir. What is my opinion, is that

1 Mr. Kubach has obstructive uropathy, who by going
2 into the later numbers, have this number where
3 definite compromising the glomerulofiltration
4 rate. I don't know if Mr. Kubach **has** intrinsic
5 renal failure, and that's different things. You
6 know, one is a plumbing business, which **all** in this
7 room, except for the **lady**, one time in another, we
8 live longer, we're going to get. Three things you
9 can be sure: Taxes, death, and obstruction if you
10 live longer. Means, that's what you pay.

11 What I'm trying to tell you is that
12 is a very interesting thing that just mentioned,
13 which prove my point, that in **19** and **1.3** at the
14 admission, in a patient with a structural
15 obstructive uropathy, being elderly and muscle
16 wasted, probably, does not exclude the fact that
17 the glomerulofiltration rate in this gentleman was
18 significant decreased **as** result of the
19 obstruction. The fact that he recovered would
20 suggest to me that he didn't have intrinsic renal
21 disease.

22 Q. Okay. Now, the -- his renal or kidney
23 situation did not play any part in the
24 hyperammonemia. Would that be correct?

25 A. No.

1 Q. It is not correct?

2 A. His obstruction -- let me put it that way.
3 If you **look** who are the people who will develop
4 hyponatremia and consequence have the potential for
5 develop hyperammonemia, if you take **a** hundred
6 patients who come to a study with an obstructive
7 uropathy and you want to predict from this a
8 hundred patients who are the persons who most
9 likely will develop hyponatremia, the most single
10 factor will be -- well, actually, there are three
11 factors -- will be delaying of surgery, related,
12 you know, go, and it's more than one hour; the
13 second, the ability of bleeding during the
14 surgery. The more you bleed, the more chance you
15 going to infuse. And, third, is the preexistent
16 renal function.

17 The more -- the higher the BUN and
18 the higher the creatinine, the more chance are that
19 you can develop this, and it's simple. Because
20 patient who have this problem, if you infuse **a**
21 tremendous amount of this hypotonic solution, will
22 not be able to get rid of that, will retain, and
23 that is a chance. Means, in our experience and
24 others' experience, you know, when you have
25 somebody who comes with **a** significant elevation of

1 BUN and creatinine and will have a TURP, these are
2 the people that we'll monitor very, very closely
3 for this complication.

4 Q. Are you stating the opinion that that is
5 what is involved in this **case**?

6 A. No. I just said that among other factors, I
7 think we already know what happened. The guy has
8 a -- I'm expecting a long distance call from
9 Argentina. Want to be sure that is, you know.

10 Q. Let's take a moment.

11 A. You know, can I use this call?

12

13 (Short recess.)

14

15 Q. (BY MR. JACKSON) Doctor, at what point in
16 time, now that you have the records in front of
17 you, do you believe that Mr. Kubach should have
18 been intubated?

19 A. Okay. We have -- we start with the sodium
20 of -- let me see. 102. We go to Friday, 28th,
21 102, I think **is** after -- immediately after
22 surgery. Went to 112, 117, and 123 and is around
23 4:20 and you can see that while the sodium
24 correction is progressing well and the patient
25 should be getting better, the patient is having

1 obtundation, progressive obtundation, and I think
2 that should alert the physician that something else
3 was going on. And in my opinion, I think that
4 maybe is **the** time that I would probably, with the
5 information about the ammonia level, I would
6 definitely intubate this patient at that time.

7 Q. Okay. We are talking about 4:20 p.m. on
8 the --

9 A. Yes. Sometime.

10 Q. And the time 4:20 comes from the lab
11 values? Is that --

12 A. Yes, that's the -- that's what the value is,
13 **yes.**

14 Q. At what point in time would the physicians
15 be aware of that 4:20 lab value?

16 A. All depend if this was done stat. **My**
17 hospital, we wait around 10 minutes, 10 to 15 when
18 it's in **a** stat.

19 Q. From your review of depositions and the
20 records here, at what point in time do you believe
21 the doctors were aware of that 4:20 lab value? Lab
22 values?

23 A. I know they were aware in the afternoon.

24 Q. At what point in time?

25 A. I cannot precisely tell you without looking

1 into that.

2 Q. What role, if any, would the clinical
3 observations that they are making of the patient
4 play in the decision of intubation?

5 A. Well, again, you have the clinical scenario
6 of having somebody who you know develop this
7 problem, that is, the transurethral resection
8 hyponatremia. That's -- the people already know
9 that. That's the reason why he's getting
10 hypertonic saline. Despite that the correction to
11 sodium is taking place appropriately, the patient
12 is not getting better, and to me, knowing that
13 complication besides hyponatremia can produce this
14 syndrome, like hyperammonemia, should alert the
15 physician about that complication and should take
16 measures to prevent the lethal complication.

17 I just want to emphasize to you that
18 hyperammonemia, per se, the level of the ammonia,
19 the only significance it has is the respiratory
20 depression, because the treatment is to allow the
21 ammonia to be metabolized and to be excreted. It's
22 nothing else you can do and the only thing you need
23 to do is to prevent patient having the respiratory
24 arrest or the respiratory depression.

25 Q. So what you -- what you're, if I understand

1 you correctly, opining is that the respiratory
2 status of the patient is what should be closely
3 monitored and observed?

4 A. Oh, **yes**.

5 Q. And that relates specifically to the blood
6 gases; correct?

7 A. Not only to the blood gases, but the fact is
8 that the patient is not get -- see, you putting
9 everything together.

10 Q. When you say, Doctor, that the patient is
11 not getting better, are you referring to the 4:20
12 lab values?

13 A. No, I'm referring to the clinical picture
14 that the patient is coming to the ICU and is
15 remaining obtunded, despite that the sodium is
16 being corrected.

17 Q. What do you mean by obtunded? What does
18 that term mean to **you**?

19 A. Not very active, responding. The guy's not
20 active. He's not fully awake.

21 Q. Now, in rendering your opinion **as** to the
22 time involved here, you are relying and look to the
23 lab values; am I correct?

24 A. No, sir. I'm making the point with the lab
25 values now and making that observation and went

1 through the progress note of the entries of the
2 nurses and the physicians.

3 Q. So that I'm clear, in -- what in the lab
4 values at 4:20 were you specifically referring to,
5 to form a basis of your opinion or assist you in
6 your opinion that he was not getting better?

7 MR. MELLINO: Objection. You asked
8 him what time the patient would have been
9 intubated --

10 MR. JACKSON: Right.

11 MR. MELLINO: -- in response to his
12 answer that they should have recognized
13 hyperammonemia because the sodium was improving and
14 the patient -- and Mr. Kubach wasn't getting any
15 better so I looked into the lab sheets to find out
16 at what point the sodium had returned to a level of
17 120 to give you an answer to when the patient
18 should -- would have been intubated. Now you're
19 asking him --

20 MR. JACKSON: I asked him what in the
21 lab values at 4:20 was he using to form his basis
22 that at that point in time, they should have
23 intubated because he was not getting better.
24 Now --

25 MR. MELLINO: Well, that's not what

1 you asked him.

2 Q. (BY MR. JACKSON) Is your answer the
3 sodium?

4 A. No, it's not the sodium. Maybe I don't make
5 myself clear, but, please, I will try to do my
6 **best**. What I was trying to convey to you, sir, is
7 that taking the 123 **as** an instruction, you don't
8 intubate the patient because it shows **123**. Please,
9 just understand that.

10 Q. That's what I'm trying to understand.

11 A. No, that's not what I said. If I said that,
12 if I give you that impression, that's wrong. What
13 I'm trying to say is that a good doc will look at
14 the patient and will say, "This patient develop
15 hyper -- hyponatremia. That means that he receive
16 a significant amount of glycine. We are treating
17 the hyponatremia. We are coming to the level that
18 the patient should be getting better. He's not
19 getting better. Well, what is the problem? Why
20 he's not getting better?" And I pick up **123**
21 because in my experience, my animal studies, in my
22 hundreds cases of hyponatremia that we were able,
23 you know, when you reach 120, 115, many of these
24 people will begin to feel better. The sodium begin
25 to clear. And this guy is the opposite, and this

1 deserve an explanation.

2 Q. Now, when you say, getting better, what
3 should the doctors be seeing?

4 A. That the patient is waking up.

5 Q. Is there anything else, other than waking
6 up, that you consider getting better?

7 A. The patient is able to have a, you know,
8 able to talk sometimes. Okay. Especially if it's
9 acute hyponatremia, you sometimes see dramatic
10 improvement.

11 Q. What else? Anything else?

12 A. If the patient is seizing, he will stop the
13 seizures. If a patient is comatose, sometimes the
14 patient is waking up. All these -- I mean, the
15 patient is improving. In this situation, the
16 patient is not improving, but worsening. **And**
17 that's what I said, not the serum sodium is going
18 to make the determination to intubate or not. It's
19 that the serum sodium is used as a marker to alert
20 the physicians what else could be going wrong.

21 Q. Now, let's talk about the picture of this
22 patient. What I understand you to be saying, when
23 he's not getting better, but getting worse, is that
24 we are now discussing clinical observation; is that
25 correct?

1 A. Yes, sir.

2 C. As far as the lab values, as far as the
3 blood gases, do you consider the blood gases and
4 the other lab **values** of Mr. Kubach to be
5 indications that he **was** getting **worse**?

6 A. No. The serum sodium indicates to me he's
7 getting better and --

8 Q. How about the blood gases? You referred to
9 those earlier.

10 A. Let me see the blood gases, Do we have the
11 blood gases here, Chris? These lab?

12 MR. MELLINO: Yes, they're in here
13 somewhere.

14 THE WITNESS: Could you -- that would
15 be 4:20; right?

16 MR. MELLINO: Yes. That's the time.
17 This is at 2:20.

18 A. 2:20. The only thing that we can **say** with
19 the blood gases that the patient is having
20 respiratory alkalosis, okay, that he trying to
21 hyperventilate, okay, as a pH of 7.54, a **P-CO2** of
22 25 and a **P-O2**, 114, but **I'm** sure he is in oxygen
23 supplementation. He is taking oxygen. Now, that
24 by itself only suggests that the patient that is
25 maximum hyperventilation or trying to, you know,

1 trying to hyperventilate. Not maximum, I'm sorry.
2 Trying to hyperventilate and nothing else. Okay.

3 Q. (BY MR. JACKSON) So that's not an
4 indication to us that this patient is getting
5 worse, is it?

6 A. Well, again, there's no indication that the
7 patient is getting better, either, because when you
8 have somebody who continues to -- the normal P-CO2
9 is 40. Why the patient continues to have 25? He
10 has abnormal blood gases. That's no question. He
11 has abnormal blood gases because he went from a pH
12 of 7.41 to a pH of 7.54, the P-CO2 is coming down
13 and I'm sure that, you know, that is a reflection,
14 probably -- I need to see the bicarbonate in this
15 file. Okay. He probably has, you know -- I need
16 to plot that number. Let me see if I can do that.

17 Well, I can see some inconsistency in
18 this number. In other words, he has a pH of 7.54,
19 okay. He has a P-CO2 of 25 and he has a
20 bicarbonate of 22.1. When you plot these three
21 numbers to check for consistency, doesn't come out
22 right, Means that probably the bicarbonate in this
23 fellow should be a little bit higher than the 22.1,
24 but that's a trivial thing. That doesn't -- just
25 trying to play with the numbers.

1 Q. Okay.

2 A. Now, again, the fact is that these blood
3 gases that we have here are not normal blood gases,
4 and with the picture of the not normal blood gases
5 and high ammonia level and the doctors knew that he
6 had that complication of hyponatremia, the people
7 can put the thing together and say that this guy
8 most likely will have hyperammonemia as a result of
9 this problem.

10 Q. Now, Doctor, as it relates to the situation
11 that we're describing here, we are now talking
12 about their clinical observations of this man
13 getting worse, **as** you say, rather than getting
14 better; correct?

15 A. Yes, sir.

16 MR. MELLINO: He said the patient
17 wasn't getting better.

18 Q. (BY MR. JACKSON) I thought you said he was
19 getting worse in your opinion. Did you not say
20 that?

21 A. Was not getting better.

22 Q. Did you say that he was getting worse?

23 A. I don't know. Can --

24 Q. Do you feel that he was getting worse?

25 A. Well, he's not getting better. He is -- he

1 is -- you know, he's not getting better --

2 Q. Do you feel he was getting worse?

3 MR. MELLINO: At what time are you
4 talking about?

5 MR. JACKSON: 4:20.

6 A. He's not waking up. Put it that way.

7 Q. (BY MR. JACKSON) Do you think he's getting
8 worse?

9 A. Probably.

10 Q. Okay. So your opinion is that at 4:20, he
11 was getting worse?

12 A. Probably.

13 Q. Now --

14 A. And let me -- let me qualify that. Because
15 I would suspect -- I will expect for somebody in
16 which hyponatremia is being corrected and is acute
17 hyponatremia that he will be able to respond, you
18 know, in my opinion, in my experience, within --
19 with an improvement. The fact he is not, that, to
20 me, suggests that he's not getting better, that
21 maybe he's getting worse.

22 Q. Now, the clinical observations would be
23 recorded in the -- in the flow chart of the SICU;
24 correct?

25 A. If they are properly done, yes.

1 Q. Okay. What, from the flow chart, do you use
2 to conclude that Mr. Kubach was either not getting
3 better or was getting worse at around 4:20 or
4 thereabouts?

5 A. I need to see that, okay. Well, to answer
6 your question, sir, said that at 1630, "Dr. Kursh
7 here," says.

8 Q. Dr. Kursh?

9 A. Kursh.

10 Q. Uh-huh.

11 A. Away -- aware of the neural status and
12 sodium. Means he was aware at 1630 that the sodium
13 was 123 --

14 Q. That's 4:30?

15 A. 4:30. Yes. That's what we were talking
16 about.

17 Q. Okay.

18 A. You asked me when you think the doctor
19 become aware; right?

20 MR. MELLINO: Right.

21 A. And that's the time according to the nurse.
22 Actually, at 1640, he ordered to restart the serum
23 sodium, and at 3 percent saline at 25 ml's.
24 Decreased response here.

25 Q. (BY MR. JACKSON) What time, Doctor?

1 A. I think is at 6:00,

2 Q. At 6:00 in the evening?

3 A. Yes. Decreased response.

4 Q. You're referring to the nurses' notes?

5 A. Yes, sir.

6 Q. And it says what, please?

7 A. "Decreased response."

8 Q. Decreased response to what?

9 A. Yes, sir. Well, usually, that -- the nurses
10 in the assessment of the patient asks questions
11 and, you know, you just see the patient is more
12 alert or less alert, more obtunded, less -- will
13 interpret that the decreased response, the
14 plaintiff is getting **less** responsive from before.

15 Q. That's a nurse's assessment?

16 A. I assume that this is what a nurse wrote. I
17 think that this is a nurse assessment, yes, sir.
18 Patient notes.

19 Q. Okay. **What** other notes would indicate to
20 you **that** -- well, **you** took it **up** to 6:00, so at
21 6:00, you had a note that said -- I'm sorry --
22 decreased response? Was that the phrase?

23 A. Excuse me, sir?

24 Q. Would you say decreased response? Was that
25 the -- okay?

1 A. Yeah. Well, decreased is an arrow pointed
2 down. Down will indicate, in medical, the way we
3 doctors write and nurses --

4 Q. Okay.

5 A. That is increased, is **up**; decreased is
6 down.

7 Q. Okay. **So** the arrow indicates at 6:00 that
8 there **was** a decreased --

9 A. Well, around 6:00; yes.

10 Q. Okay.

11 A. Yes.

12 Q. Now, as a physician, do you rely upon
13 nursing assessments in terms of treatments of your
14 patient or do you make your own assessment?

15 A. Well, I really, in my area of expertise,
16 ICU, nephrology, I really heavily rely on my
17 nurses, especially our nurses in the ICU. These
18 people tend to be very good. But not only that,
19 Dr. Kursh, at 18 **hours**, here, said.

20 Q. 1800?

21 A. 1800, I believe.

22 Q. That was 6:00?

23 A. 6:00.

24 Q. Okay.

25 A. Dr. Kursh here, aware of decreased mental

1 status and a question. Seizure activity?

2 Q. So apparently Dr. Kursh was there at 6:00?

3 A. Yes.

4 Q. And personally observed and evaluated the
5 patient in some manner; correct?

6 A. And he said, aware of decreased mental
7 status, means he agreed according to the nurse
8 that --

9 Q. Doctor, you don't -- you don't mean to tell
10 us that you believe that the nurse's note that says
11 that the doctor was aware of the decreased mental
12 status is an indication that Dr. Kursh agreed that
13 the man had a decreased mental status, do you?

14 A. I don't intend to say that. I just said
15 that he was aware of the nurse's comment.

16 Q. Okay.

17 A. That's the only thing I said.

18 Q. And apparently, based upon those notes and
19 certainly based upon your review of Dr. Kursh's
20 deposition, you're aware that he -- he assessed the
21 patient at that time and did not feel it necessary
22 to intubate the patient?

23 MR. MELLINO: Objection.

24 A. Yeah, I was aware of that.

25 Q. (BY MR. JACKSON) Okay. Now, you differ

1 from that?

2 A. Well, not only I differ, but I think what
3 happened subsequent to Mr. Kubach will tend to
4 agree with us.

5 Q. Well, let's not talk in retrospect. I'd
6 like to talk at the point in time when the doctor
7 was there, his clinical observations of this
8 patient are what you take issue with; correct?

9 A. Well, I have a problem in Dr. Kursh, and
10 with all due respect, I think he's -- he recognized
11 the problem, he knew according to his deposition
12 about the complication, he knew there **was** a
13 question about the hyperammonemia. I mean, he knew
14 all this problem, but which was amazing to me, that
15 he choose not to convey that information, that
16 potential complication to the family. He said that
17 he doesn't **do** that. Means, when **I** see a physician
18 that takes that position, you know, I'm just
19 curious to see why he is not going to do other
20 things. Means we have a gentleman here who not --
21 acknowledge, yes, the hyperammonemia can occur,
22 that he is aware of the hyperammonemia, but,
23 nevertheless, he doesn't mention that complication
24 to the family. He never do that.

25 Now, that's the same physician who is

seeing somebody with neurologic deterioration and
2 he is in opinion he's not going to intubate the
3 patient. Well, I will not have to agree with his
4 opinion. I think he's wrong.

5 Q. Doctor, your opinion is that Dr. Kursh's
6 observations of the patient should have required
7 that this patient be intubated; is that correct?

8 MR. MELLINO: Objection.

9 A. No. I think he --

10 Q. (BY MR. JACKSON) Let me withdraw the
11 question.

12 A. Yes.

13 Q. You take issue with the fact that when he
14 saw this patient at 6:00 that evening, that he
15 didn't have the patient intubated at that point in
16 time? Isn't that what your opinion is?

17 A. I take an issue that Dr. Kursh, who knew
18 about this complication according to his
19 deposition, who knew that hyperammonemia can result
20 as -- and produce this problem, he know that, he
21 didn't -- he know that, and having this specific
22 patient in which his neurologic status is not
23 getting better, is not improving, is getting worse,
24 he choose not to do anything but observe. To me,
25 that is not good practice of medicine.

1 Q. That's what I'm trying to understand from
2 you.

3 A. Yes.

4 Q. So it is your criticism of Dr. Kursh that at
5 6:00, when he saw this patient and knew what he
6 knew about this patient at that point in time, that
7 he should have had the patient intubated; is that
8 correct?

9 A. Yes.

10 Q. Okay. So that you take issue with his
11 clinical judgment in assessing that patient and
12 treating the patient as of 6:00 that night; is that
13 correct?

14 A. Yes.

15 Q. Now, as it relates to Dr. Nearman, what --
16 at what point in time do you believe Dr. Nearman
17 should have acted to intubate this -- and before I
18 ask that, Doctor --

19 A. Yes.

20 Q. -- your criticism of these doctors in their
21 care and treatment of this man is that they did not
22 intubate him; is that correct? And mechanically
23 ventilate him.

24 A. Not only that they didn't intubate, but
25 failed to recognize the complication that will lead

1 to the respiratory arrest.

2 Q. What is the complication that they failed to
3 recognize?

4 A. The hyperammonemia that will produce
5 respiratory depression.

6 Q. Did you not just say that you believed that
7 Dr. Kursh was aware of hyperammonemia?

8 A. Yes. He was aware.

9 Q. Okay. Now, hyperammonemia is --

10 A. He was aware, but he didn't do anything.

11 Q. Hyper --

12 A. He was aware during his deposition. He knew
13 the complication, but in no way, in the progress
14 note, he reflects that was happening to -- the only
15 notes -- the only progress note that I saw in these
16 entire chart, and maybe you can point it, was made
17 by a junior house officer at -- or a student, I
18 believe, who just point out about the high ammonia
19 level. Neither Dr. Nearman, Dr. Angell or
20 Dr. Kursh entertained in the chart the possibility
21 that the respiratory complication or the mental
22 obtundation that this patient was having was
23 related to hyperammonemia.

24 Q. Hyperammonemia is simply an increased level
25 of ammonia in the blood; correct?

1 A. Yes, sir.

2 Q. By definition?

3 A. Yes, sir.

4 Q. Okay. Now, **as** it relates to Dr. Kursh, we
5 have discussed your criticisms of him, and that
6 specifically relates to his failure to intubate
7 this patient at 6:00; correct?

8 A. The failure to intubate the patient is the
9 end result, John. What -- you need to recognize
10 the problem. You need -- you're not going to begin
11 to intubate people because they're not getting
12 better. You know what could be the reason for this
13 patient not getting better, and since he knew the
14 complication, according to his deposition, he knew
15 that this could happen, and if he knew that and
16 he's aware of the articles, he knows that the
17 common cause of death of these people is
18 respiratory arrest. And in order to prevent
19 respiratory arrest and respiratory depression, you
20 prophylactically intubate these people. You have
21 to do that.

22 Q. Okay. Now, **as** it relates to Dr. Kursh,
23 then, that's your criticism with him that he didn't
24 take care of this at 6:00 when he saw the man
25 wasn't getting better; correct?

1 MR. MELLINO: We've already gone over
2 this three times. He said that --

3 Q. (BY MR. JACKSON) Well, is that correct or
4 not? Yes or no?

5 MR. MELLINO: He's already said that
6 Kursh was negligent in failing to recognize this as
7 a complication in Mr. Kubach and he failed to
8 intubate him.

9 MR. JACKSON: That's what I'm asking
10 him.

11 MR. MELLINO: You didn't ask him
12 that. You asked him if it was a failure to
13 intubate. We've gone over this three times and
14 you've asked him if it was failure to intubate and
15 he came back and told you that it was these two
16 things.

17 Q. (BY MR. JACKSON) Doctor, you -- what
18 evidence do you have that Dr. Kursh was not aware
19 of the hyperammonemia?

20 MR. MELLINO: In Mr. Kubach, you're
21 talking about?

22 MR. JACKSON: Well, what else would I
23 be talking about, Chris. Where do you think I'd be
24 talking about that, other than in this case with
25 Mr. Kubach? Help me with that.

1 MR. MELLINO: Because you already --
2 when he told you that he **was** not aware of it, you
3 said that he said he **was** aware of it in his
4 deposition.

5 MR. JACKSON: The doctor said that.

6 THE WITNESS: I didn't say that.

7 MR. MELLINO: Yes, well, there's a
8 different between being aware of the complication
9 of hyperammonemia and recognizing it in the patient
10 that he treated.

11 A. You see, the question is -- I don't know --
12 let's -- let's --

13 Q. (BY MR. JACKSON) Here's my question to you,
14 Doctor. Okay? Do you have any evidence from
15 anything you have reviewed in this case that Dr.
16 Kursh was not aware of the complication of
17 hyperammonemia in Mr. Kubach?

18 A. Yes.

19 Q. What?

20 A. Absolutely.

21 Q. What is that?

22 A. Total, in no way, in the medical chart, I
23 saw a progress note by either Dr. Nearman,
24 Dr. Angell or Dr. Kursh in which hyperammonemia **was**
25 entertained as a possible diagnosis for the

1 respiratory complication --

2 Q. Okay.

3 A. -- for the mental obtundation. The only
4 thing I remember seeing was in Dr. Kursh
5 deposition, when he was asking by doctor --
6 Mr. Kampinski about that, he said, "Yes, I
7 recognize this as a potential complication." They
8 are two different things. I can recognize bleeding
9 after a chest injury as a complication, but I maybe
10 have seen somebody with a chest injury and not
11 recognize the patient is bleeding. What I'm trying
12 to tell you, sir, that from the record I reviewed,
13 I have no indications that Dr. Kursh was aware that
14 this patient was having neurologic problems
15 secondary to hyperammonemia.

16 Q. And you base that upon the fact that Dr.
17 Kursh nor Dr. Nearman made a specific note in the
18 chart addressing the fact of that awareness of
19 hyperammonemia; correct?

20 A. Yes, sir. That's the only way we doctors
21 know what we think about the patient is to put it
22 in the chart. Whatever is in our head is no good.

23 Q. Okay. Now, as it relates, then, to
24 Drs. Kursh and Nearman, so that I'm very clear in
25 my mind, your belief that they were not aware of

1 hyperammonemia in Mr. Kubach is based upon the fact
2 that they did not write a note in the chart to that
3 effect?

4 A. No, sir. I think that we'll change it.
5 That, **among** other things.

6 Q. What else, Doctor, in addition to that,, what
7 else?

8 A. The fact is that these people are at all
9 appalled that the patient is not getting better.
10 That is a decreased mental -- decreasing responsive
11 and I don't see any order here that will indicate
12 to me that, yes, indeed, these persons are aware of
13 the complication and are doing something to prevent
14 that.

15 Q. Now, Doctor, you have described for us what
16 the nurse's assessment of the patient was. From
17 the record, as far as Dr. Nearman and Dr. Kursh is
18 concerned -- let me talk specifically about Dr.
19 Kursh. You know that at 6:00, he was there and
20 **looked** at the patient; correct?

21 A. He was 6:00 and he was **also** before that.

22 Q. Okay.

23 A. Okay.

24 Q. Do you recall what he said about the
25 patient's condition when he observed the patient at

1 6:00 from his deposition?

2 A. No, I don't.

3 Q. Okay. Now, at 6:00, when we have the note
4 from the nurse that there was a decreased mental
5 status, at what point in time after that was
6 Dr. Nearman made aware of this decreased mental
7 status as assessed by the nurse, from your
8 understanding?

9 A. It's there, **sir**. Doctor -- 18 -- 18 hours,
10 Dr. Kursh -- are you talking about Nearman? You
11 change now?

12 Q. I changed to Dr. Nearman.

13 A. Okay. Wait a minute. Wait a minute.
14 Dr. Nearman discontinues the hypertonic saline when
15 the patient arrive, was around --

16 Q. Now, we're talking back in the morning,
17 aren't we, Doctor?

18 A. No, 12:45, just onto --

19 Q. Late -- early morning. Early afternoon.
20 Excuse me. I'm talking about 6:00, after 6:00 when
21 the nurse made this notation that she assessed him
22 as having a decreased response?

23 A. I don't see Dr. Nearman here. I don't know
24 when -- I don't know when he become aware.

25 Q. Upon what, then, do you base your opinion

1 that Dr. Nearman was negligent because he did not
2 respond to this patient getting worse or having a
3 decreased response?

4 A. Well, I assume that Dr. Nearman make rounds,
5 according to his deposition, he makes rounds
6 several times in the patients. That's what he said
7 in his deposition.

8 Q. Okay.

9 A. The fact it is not reflected here, I don't
10 have an explanation for that, but many times, what
11 happen is in the ICU, at least where I practice,
12 the nurse will only put the name of the physician
13 who is not the staff in the ICU. In other words,
14 the staff in the ICU is assumed to be around all
15 the times, but if the surgeon come or the
16 neurology, the people will put, saw, saw.

17 Q. So your understanding or your criticism of
18 Dr. Nearman is based upon your understanding that
19 he would have made rounds after 6:00 and would
20 have --

21 A. Well, that's what he said in his deposition,
22 sir.

23 Q. Okay.

24 A. It's not my understanding. That's what he
25 acknowledge, that he saw Mr. Kubach, I think it's

1 several times that day.

2 Q. Okay. Now, well, I want to be clear of
3 that, though, Doctor. That's one of the facts that
4 you **used** to criticize Dr. Nearman, then, that he
5 **was** aware of this after 6:00; is that correct?

6 MR. MELLINO: Well, I don't want you
7 to be confusing --

8 MR. JACKSON: Don't interrupt the
9 doctor. **Is** that correct?

10 MR. MELLINO: Objection. I --

11 MR. JACKSON: Don't -- now, you
12 objected and made your objection, so don't make a
13 speech.

14 Q. (BY MR. JACKSON) Is that correct?

15 MR. MELLINO: I'm not going to make a
16 speech. You're trying to limit his testimony till
17 after 6:00. He's already testified --

18 MR. JACKSON: I'm not limit --

19 MR. MELLINO: He's already testified
20 in response to your question --

21 Q. (BY MR. JACKSON) **Is** it your opinion in
22 rendering an opinion of Dr. Nearman that he **was**
23 aware after 6:00 of the decreased response in this
24 patient? Is that your -- is that part of your
25 basis or not?

1 MR. MELLINO: No.

2 A. No.

3 Q. (BY MR. JACKSON) Well, then, explain why it
4 is not.

5 A. Okay. What I said to you is that this is an
6 ongoing process, that Dr. Nearman is the director
7 of the ICU, that according to **his** testimony, he
8 made rounds, that we cannot pinpoint at what time
9 he saw the patient, but, of course, if Dr. Kursh is
10 aware of that decreased mental status --

11 Q. At 6:00?

12 A. -- at 6:00, Dr. Nearman probably was also
13 aware, too.

14 Q. Okay. And it is that fact which you use to
15 feel or to render the opinion that Dr. Nearman
16 failed to appreciate and properly treat this
17 hyperammonemia; correct?

18 A. Yes. But in addition to all the other
19 things.

20 Q. What are the other things you use against
21 Dr. Nearman?

22 A. The other things, what happened during the
23 near night when the patient arrested.

24 Q. Okay.

25 A. The patient was left alone, this guy who is

1 not doing well, with a supervision of the guy who
2 is out of the medical school just two months.
3 Nobody else is there, except doctor -- what is the
4 name, Jayanthi was his name?

5 Q. Jayanthi?

6 A. Jayanthi. I don't see Nearman there. I
7 don't see Kursh there. I don't see even Angell
8 there. **I see** a nurse and a guy who is two months
9 out of medical school.

10 Q. Okay. So --

11 A. I'm sorry. Yeah, two months of medical
12 school.

13 Q. That's what I'm trying to understand. **As**
14 far as Dr. Nearman is concerned, then, it's the
15 things that he did or didn't do from 6:00 later
16 into the evening; is that correct?

17 **MR. MELLINO:** Objection. He's
18 already testified it was 4:00 -- it was at 4:00;

19 **MR. JACKSON:** That's not what he
20 said.

21 Q. (BY MR. JACKSON) Is that correct, Doctor?

22 A. Before 6:00, too.

23 Q. Well, that --

24 A. He was aware of the patient, John, and let's
25 be sure that you understand what I said. He was

1 aware of the patient. He discontinued -- in other
2 words, he takes an active role in this patient. He
3 discontinues the hypertonic saline. Later on he
4 restarted, or somebody else restarted. I think
5 it's Dr. Kursh. But he knows -- he's aware of the
6 patient, by his own admission. He makes rounds on
7 the patient. And it is one patient that if I
8 recall correctly, that day, the ICU was not very
9 busy. That's one of the things that the nurses
10 point out. Means, I don't believe there were too
11 many sick people like Mr. Kubach, and if he's the
12 director of the ICU, I think he's -- was his
13 responsibility to be sure that somebody with
14 seniority was aware of what happened during the
15 night.

16 Q. Doctor, let me go back, because when I asked
17 you to point out for me the evidence that you found
18 from the chart that this man was not getting better
19 or was, in fact, getting worse, you went through
20 the notes and pinpointed a note at approximately
21 6:00 indicating that there was a decreased
22 response. Am I correct?

23 A. Yes. Can I have the chart? Do you have the
24 chart, please, where the progress note down by the
25 doctors? Could you give me that? I want to see

1 something.

2 Q. Well, let me ask you a question while he's
3 looking for that.

4 A. Yeah.

5 Q. Prior to that time in the notes, there is
6 nothing that indicates that this man is getting
7 worse or is not getting better. Am I correct?

8 A. Before I do that, I going to review the
9 notes.

10 Q. Okay. But in terms of the ICU chart that
11 you reviewed, there's nothing before 6:00 upon
12 which you -- you base your comment --

13 A. No, that's not true, John.

14 Q. What is there?

15 A. The guy is not -- the guy is admitted, okay,
16 and the guy is not progressing well. The guy
17 continues to be obtunded, dilated pupils, sluggish
18 response. I don't see in any way that we are
19 making progress from the admission at 12:05 to
20 6:00, and the sodium is getting better. That, to
21 me, indicates that this is not the normal response
22 that somebody has with hyponatremia. Something
23 else is going on. That's what I'm trying to convey
24 to you from the beginning.

25 Q. What are the doctors seeing during that

1 period of time?

2 A. Which doctors?

3 Q. Any of the doctors that you're criticizing.

4 A. You have Dr. Kursh and Dr. Angell were there
5 and Dr. Nearman were there at different times.

6 Q. Okay. What were Dr. Kursh's observations
7 during that period of time, his clinical
8 observations of the patient?

9 A. No. As you said better, he didn't make it,
10 you know. The nurses put the observation. I'm
11 just trying to find out if he have any progress
12 note down during that time and I --

13 Q. Let me go back. In there, what were
14 Dr. Nearman's observations of the patient during
15 that time?

16 A. Dr. Nearman give an order to discontinue the
17 hypertonic saline when the patient arrive.

18 Q. What were his clinical observations of the
19 patient?

20 A. Doesn't say anything here. I don't think he
21 put clinical observations in the patient notes.
22 The clinical observations are entered as an
23 independent note by the physician in the chart.
24 That's what I'm trying to find out. Okay.

25 When the patient is arrived to the

1 ICU at 14 hours is **a** progress note, okay, who --

2 Q. What time was that?

3 A. 4:00 -- 1400.

4 Q. 2:00?

5 A. 2:00, And said, "Underwent TURP," you
6 know. The sodium is 102. Started in hypertonic
7 saline, and assessment is somnolent and combative.
8 Okay. Suggests -- suggested, I said, discontinue
9 hypertonic saline, hydrate with normal saline,
10 Lasix and, very interesting, follow with ammonia
11 level also.

12 Means at 2:00 that day, we have
13 somebody who -- and I'll basically Dr. Angell --

14 MR. MELLINO: That's DiCiccio, I
15 think.

16 THE WITNESS: DiCiccio. But this is
17 Kursh. Right?

18 MR. MELLINO: Uh-huh.

19 A. Means these people already at that time, at
20 2:00, knew about the problem, knew that was **a**
21 potential problem.

22 Q. (BY MR. JACKSON) Okay.

23 A. And it is unfortunately but I don't **see** no
24 progress note until 8-29-87, there's a chief
25 resident inhouse note, and this, I think, is at the

time that the patient has the respiratory arrest.

2 Q. Now, from the time he was admitted to the
3 SICU until that time, what notes would you have
4 expected to see in the chart?

5 A. Oh, at least two or three progress note.

6 Q. From whom?

7 A. I -- from Dr. Nearman, from the surgical ICU
8 resident, from Dr. Angell when he saw the patient.
9 The patient is not -- is -- let us assume he's not
10 getting worse. He's not getting better, **and** I
11 don't see the reflection in the progress note why
12 he's not. And, again, I don't see in any of these
13 progress note either by Dr. Kursh, by Dr. Angell or
14 by Dr. Nearman the hyperammonemia was playing a
15 role in this problem. Even so, that these people
16 said, follow ammonia levels.

17 Q. Doctor, I'm confused as to what point in
18 time you say Mr. Kubach should have been
19 intubated. Can you tell me?

20 A. Well, see, that is irrelevant, but let's put
21 it -- you want a time?

22 Q. I do.

23 A. Okay. I would intubated around 4:00.

24 Q. Okay. Why?

25 A. Because in my -- why? Because I know what

1 I'm doing, because I know that this guy is having
2 problems. I know that the ammonia level is up. I
3 going to prevent the problem. That's why.

4 Q. So you would intubate him at 4:00 simply
5 because of a hyperammonemia?

6 A. Oh, absolutely, sir.

7 Q. In the absence of any other indications you
8 would -- you would intubate this man because he has
9 a high ammonia level?

10 A. Well, that's not a correct question. You
11 asked me about Mr. Kubach. Let's don't change it.
12 Hyperammonemia as a whole, no. But Mr. Kubach with
13 hyperammonemia and not getting better and mental
14 obtundation, yes.

15 Q. And all of these opinions are based upon
16 materials that you gleaned from the chart, the
17 medical chart, and from the depositions which
18 you've read; is that correct?

19 A. No, these are opinions based on my research
20 and my extensive practice.

21 Q. But **as** --

22 A. You asked me what I will do.

23 Q. But as far as this patient is concerned, you
24 certainly have had no contact with this patient, so
25 you are relying upon the facts that are set forth

1 in the chart and in the depositions of these
2 various people that you reviewed; correct?

3 A. Yes, sir.

4 Q. Now, how quickly, Doctor -- what's the rate
5 of ammonia metabolism in a man like Mr. Kubach?

6 A. I cannot tell you that. All depend of the
7 liver and all depend of the diuresis, but I would
8 think, in reviewing the literature, what I see, in
9 24 hours, he should be okay.

10 Q. Okay. 24 hours from what point in time?

11 A. From that -- you know, I would say, you
12 know, by the next day, noontime, he should be back
13 to normal or with the levels which he will not
14 sustain any problem, because he went from 94 to 300
15 something at midnight; right? Yes. Okay. Yes.
16 93 ammonia, and he has 343.

17 Q. At what time?

18 A. Will be -- this will be the time?

19 MR. MELLINO: Uh-huh.

20 A. 12:45, midnight.

21 Q. (BY MR. JACKSON) Okay.

22 A. Means he is peaking or, you know, but there
23 was -- and that's most likely correlate at the time
24 that --

25 MR. MELLINO: I think that's at 12:45

1 in the afternoon.

2 A. In the afternoon. 12:45 in the afternoon.

3 At 10:50 is -- at the time, you know, he's -- the

4 340. You know, he's having at 10:50 in the

5 morning, right after surgery, is 93. And at

6 noontime is 343. He doesn't have any other ammonia

7 levels, but you can predict that his continues to

8 rise.

9 Q. Was your understanding that that 300 was at
10 12:45 midnight?

11 A. No. No, no, no. It was not. I'm sorry.

12 Q. How fast would that be metabolized?

13 A. Again, all depend. I am not an expert in
14 ammonia metabolism, myself, but I think I can
15 looking into the literature with similar levels and
16 similar type of elderly people, that according what
17 I gather and in my experience with other patients,
18 in about 24 hours.

19 Q. Okay. How would the hyperammonemia, if it
20 was causing a problem, manifest itself physically
21 in a patient like Mr. Kubach?

22 A. With respiratory depression,

23 Q. Any other manifestation?

24 A. Nausea, vomiting.

25 Q. Now, what was your understanding of

1 Mr. Kubach's mental status upon admission to the
2 hospital?

3 A. That he was not -- that he has some problem
4 that, as I said, he has question of senile
5 dementia, yeah. That he -- **but** according, I think,
6 to the wife, he was able to communicate, you know,
9 was not ready to play chess, I'm sure, but --

8 Q. Did you read the wife's deposition, **also**?

9 A. No.

10 Q. Where did you get the understanding that you
11 just stated?

12 A. Through communication with the lawyers.

13 Q. What other facts were you communicating
14 to -- from the lawyers as to things you relied upon
15 in making your opinions?

16 A. Only that.

17 Q. What, in your opinion, was Mr. Kubach's
18 ammonia level at the time of his arrest?

19 A. I don't have any idea. I can only predict
20 by the kinetics that probably either equal to 343
21 or higher.

22 Q. Why do you say that?

23 A. Because that's, you know, most likely. If
24 the patient's ammonia were getting better, unlikely
25 he will have more respiratory depression. The fact

1 that he continues to have respiratory depression
2 and finally arrested will suggest to me that his
3 level was peaking, was still the same.

4 **a.** So you believe it **was** either the same or
5 going higher at the time of his arrest?

6 **A.** Probably so, **yes.**

7 **Q.** Doctor, as a general proposition in
8 medicine, a bad outcome is not in and of itself
9 equal to negligence, is it?

10 **A.** You are correct.

11 **Q.** We've used the term "standard of care"
12 here. What do you understand that term to mean,
13 that phrase?

14 **A.** Standard of care means the standard that
15 other similar physicians in the community or
16 national will render under the similar
17 circumstances.

18 **Q.** The opinions that you hold here, you have
19 indicated that you believe that Mr. Kubach's death
20 was a result of the failure to intubate him; is
21 that correct?

22 **A.** Again, it's a failure to recognize and
23 manage proper the complication, which include,
24 among other things, early intubation, yes.

25 **Q.** What other management of the patient would

1 there have been, in your opinion?

2 A. Well, you have to ensure the proper
3 diuresis, because one of the things that you need
4 **to** be sure that the patient is peeing well to get
5 rid of the ammonia.

6 Q. Do you have any indication here that he was
7 not --

8 A. No, he was peeing adequate.

9 Q. Okay. **So** his intakes and outputs were
10 adequate, were they not?

11 A. That means, he was able to get rid through
12 diuresis and the renal function was improving. I
13 have no indication that he would not be -- I have
14 no indication that he would not be able to get rid
15 of the ammonia given the fact that he will be
16 intubated and given time to get rid of that.

17 Q. So, other than the intubation itself, is
18 there anything that you believe these doctors
19 failed to do which **was** a cause of this man's demise
20 and arrest and ultimate demise?

21 A. This guy didn't follow the patient.

22 Q. Who?

23 A. He didn't --

24 **a.** None of them?

25 A. No, I don't think so.

1 Q. Okay.

2 A. It's not reflected. Let me put it this
3 way. It's not reflected in the chart that during
4 the period of the time that the patient was in the
5 surgical ICU, except for the initial progress note,
6 and even when the patient's not getting better, or
7 worse, I don't see any early -- I don't see an
8 active intervention from either Dr. Kursh, Nearman,
9 Angell, about the care.

10 Q. Doctor, had this man been intubated and
11 mechanically ventilated, do you believe he would
12 have had an arrest and ultimately died?

13 A. Absolutely no.

14 Q. Okay. So, therefore, you believe that the
15 failure to intubate him is what was the proximate
16 cause of his arrest and demise? Is that correct?

17 A. In my opinion, yes.

18 Q. Okay. Do you hold these opinions to a
19 reasonable degree of medical certainty or
20 probability?

21 A. I do.

22 Q. And explain your understanding of that
23 phrase to me, reasonable degree of medical
24 certainty or probability.

25 A. Well, basically, I think you are referring

1 to probably what would happen if we take a hundred
2 patients under the similar conditions, that if you
3 do intubate the patient, if you don't, and I think
4 if you intubate these patients, you will have a
5 significant number of patients not having a bad
6 outcome, where if you have no intubation, a
7 significant number of patients will have bad
8 outcome.

9 Q. What is a significant number to you,
10 medically?

11 A. Well, statistically or biology?

12 Q. Statistically.

13 A. Less than .05. That will be, but, you see,
14 that doesn't mean anything, because you have to
15 have a significant number. It depend on the
16 number -- in other words, Mr. Kubach, one is a
17 hundred percent. I mean, he is significant, but
18 you cannot write a paper and say that this is a
19 problem because you need a significant number of
20 observations to make a validity from this
21 statistical standpoint.

22 Q. Okay. You're talking about standard
23 deviations and things of that nature
24 statistically?

25 A. No, I'm talking about -- no, the standard

1 deviation relate to the number of the sample. I'm
2 talking about that you have to have -- the larger
3 the sample, the more significant **your** observation
4 will be,

5 Q. Okay.

6 A. The more powerful.

7 Q. I want to know **your** understanding of
8 reasonable degree of medical certainty or
9 probability. What does that mean?

10 A. Well, that's what I'm trying to tell you. I
11 don't know --

12 Q. What does it mean in terms of probabilities,
13 as you understand it?

14 A. More than 50 percent, I think.

15 Q. All right. Doctor, what is your fee
16 arrangement for reviewing matters of this type?

17 A. I charge \$400 an hour.

18 a. Is that for review and deposition time?

19 A. No. I charge **\$4,000** for a deposition, and
20 if I need to be -- go for --

21 Q. Court appearance?

22 A. -- court, I charge from the moment I leave
23 my house until I come back.

24 Q. At what rate?

25 A. **\$400.**

1 Q. How long did you meet with Mr. Mellino
2 before your deposition this morning?

3 A. Maybe 45 minutes, 30 minutes. I don't
4 know.

5 Q. That **was** your preparation time for the
6 deposition, **45** minutes?

7 A. With him?

8 Q. Yes.

9 A. Yeah.

10 Q. Did you prepare additionally to that?

11 A. I said, yes, I looked just yesterday at
12 things.

13 Q. How long did you review it yesterday?

14 A. Three, four hours, I think.

15 Q. These are the materials that you discussed
16 that you did not bring with you today? You
17 reviewed those, your file materials?

18 A. I review the articles and other things, yes,
19 and the file.

20 Q. Do your fees go to the university or do they
21 go to you?

22 A. No, I -- go to my corporation.

23 Q. Your corporation?

24 A. I don't -- you know, I'm -- we -- I don't
25 have salary from university. Whatever I generate

1 is what I keep.

2 Q. How long have you been reviewing matters on
3 a -- for medical malpractice cases?

4 A. It's funny. I just only began after I
5 publish all these articles in hyponatremia. Three
6 or four years, maybe.

7 Q. How many **cases** have you reviewed?

8 A. Well, I cannot tell you, but many.

9 Q. On the average, can you tell me what you --
10 how many cases you review in a year?

11 A. Four, five.

12 Q. You said you had a number of cases pending
13 earlier. How many cases do you presently have
14 pending?

15 A. I don't understand that question. What do
16 you mean case --

17 Q. Earlier you made reference to the fact that
18 you had a number of reviews pending, files that you
19 were reviewing pending. How many do you presently
20 have pending where you are reviewing them or you
21 are writing reports or depositions or --

22 A. Oh, okay. Okay. I see. You talking about
23 other cases?

24 Q. Other than this one.

25 A. Yes. Okay. I don't know. Seven, eight.

1 Q. Are the cases **for** plaintiffs or defendants?

2 A. I would said -- you know, but I need to go,
3 that probably majority are **for** defendants.

4 Q. Can you -- can you give **me** percentages on
5 that?

6 A. Maybe 60-40.

7 Q. How many times have you been deposed
8 before?

9 A. Ten. I don't know. I just --

10 Q. Have you ever been -- have you ever given
11 live testimony in court?

12 A. No.

13 Q. Okay. These cases which you have presently
14 pending, the seven **or** eight, from what states other
15 than Ohio, which is this case, **are** they?

16 A, I think it's California, Texas, Alabama,
17 Florida. I don't know if it's -- I don't know if
18 it's other cases **from** Illinois **or** New York. I just
19 don't know.

20 Q. Have you reviewed, other than the states
21 that you've just told **me** about, the cases that are
22 pending, have you reviewed cases **from** other states,
23 other than these **six**?

24 A. Maybe, but I don't recall. Let **me** put it --
25 I would **say** I get **maybe** one or two calls a month in

1 the phone for me to render an opinion if -- and the
2 majority, I would say, 90 percent of these cases, I
3 just don't take it.

4 Q. What percentage of your income is generated
5 from your involvement in medical malpractice
6 matters?

7 A. I don't know about that.

8 Q. Okay. Do you have any estimate?

9 A. No.

10 Q. How about last year?

11 A. I don't know.

12 C. Would you have records that would reflect
13 that?

14 A. No. Because all goes to pay to the, you
15 know, to the corporation. I don't -- you know,
16 just --

17 Q. Who -- how many other people are involved in
18 the corporation, other than yourself?

19 A. Is only one, me.

20 Q. You are the corporation?

21 A. I am.

22 Q. Okay. And when you give that to the
23 corporation, I assume that the corporate records
24 would reflect that it relates to testimony on a
25 medical malpractice?

1 A. No. Doesn't.

2 Q. It does not? What it does it reflect in the
3 record?

4 A. Says, just payment. Just goes --

5 Q. Have you ever reviewed a case for
6 Mr. Kampinski before?

7 A. No, never.

8 Q. Are you a member of any organizations or
9 groups which review medical malpractice cases,
10 provide experts for medical malpractice?

11 A. I was asked -- I think it's a -- let me
12 see. It's an association in Chicago, called Trial
13 Defendants' Lawyers, the Defense Doctors. I just
14 want to be sure that that's -- I don't know -- that
15 called me one day and said that if I willing to
16 review cases for doctors? I said, yes, but never
17 get any cases.

18 Q. You've never gotten any cases?

19 A. No.

20 Q. Other than that, are you a member of any
21 organizations or groups which review malpractice
22 cases?

23 A. No.

24 a. Where do you -- what's the source of your
25 referrals in these matters, Doctor? Where do you

1 get these cases?

2 A. Through the phone.

3 Q. Who are they? From groups, from attorneys,
4 from --

5 A. People who know me, through my research.

6 a. Have you ever been sued in malpractice?

7 A. No.

8 Q. At what point in time during the course of
9 Mr. Kubach's treatment do you believe that he was
10 salvageable, that some intervention would have
11 prevented the arrest and saved his life?

12 A. Up to the point of respiratory arrest.

13 Q. Which was what time?

14 A. Midnight, I believe.

15 Q. Pardon me?

16 A. Midnight, I believe.

17 Q. Do you have any opinion as to whether or not
18 Mr. Kubach, had he survived, would have had a
19 normal or otherwise life expectancy?

20 A. Well, I think it probably will go back to
21 his same status, to what which he was before.

22 Q. What do you believe his life expectancy was
23 when he entered the hospital in terms of his
24 overall condition?

25 A. Well, you know, you can go by several ways.

1 One will be by life actuarial analysis, and I think
2 he probably will have eight to nine years more.

3 Q. Eight to nine years?

4 A. **Yes.** That going for life expectancy, you
5 **see, tables.**

6 Q. Is that -- is that Mr. Kubach or is that a
7 normal life expectancy for a man of his age?

8 A. I think it's done for in the -- in the
9 general population.

10 Q. That's actuarially?

11 A. Yeah. Actuarially, yes.

12 Q. Now, as it relates to Mr. Kubach, are you
13 going to render any opinions or do you have an
14 opinion about whether he had a normal life
15 expectancy or otherwise?

16 A. No, I will not render an opinion.

17 Q. Let's take a moment here.

18

19 (Discussion off the record.)

20

21 Q. (BY MR. JACKSON) Oh, Doctor, I'm going to
22 request that the materials that you reviewed -- you
23 said you had a flow sheet or some such thing -- I'm
24 going to ask for a copy of that, that it be
25 produced, because you didn't bring your records

1 here today.

2 MR. MELLINO: Well, he's not under
3 any obligation to produce anything for you.

4 MR. JACKSON: I'm going to request
5 that he do that. He said he would be willing to do
6 it. I'll ask him to do it.

7 MR. MELLINO: He's not going to -- if
8 you want to request something, you can request it
9 through it us.

10 MR. JACKSON: I'm asking right now.
11 You don't represent the doctor, so we can deal with
12 the Court if you refuse, because you don't have a
13 right to refuse.

14 MR. MELLINO: Well, you don't have a
15 right to ask him for anything.

16 MR. JACKSON: I have a right to see
17 what materials he reviewed, and that's what I've
18 asked for. I'd like to see the materials that you
19 reviewed, Doctor.

20 MR. MELLINO: Well, you can't ask him
21 to produce anything. No, he's not under any
22 obligation to produce anything for you.

23 MR. JACKSON: We can deal with the
24 Court on that. He's apparently willing to do it.

25 MR. MELLINO: Well, he's not

1 willing.

2 Q. (BY MR. JACKSON) You're willing to do that,
3 Doctor? This man doesn't represent you. I want
4 you to understand that.

5 A. I know that.

6 Q. Okay.

7 A. I am -- let me **go** back and look, if I have
8 it --

9 Q. All right. Let's do it this way, Doctor.
10 You expressed a willingness to do that. You can --
11 I can do that through plaintiff's attorney, but I
12 want to see the documents that you reviewed, not
13 the entire medical chart, but I want to **see** what
14 you reviewed by way of these flow sheets and what
15 you called ancillary or additional materials and
16 I'm requesting you to provide those to
17 Mr. Kampinski. I'm sure he's got those already and
18 there's some correspondence which would reflect
19 what was sent to you, and I would also request a
20 copy of your records which would show the dates
21 upon which you rendered services for this case and
22 the time involved in that, and I assume that would
23 be part of your file, also, would it not?

24 A. I will assume.

25 Q. Okay.

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(Short recess.)

Q. (BY MR. JACKSON) Doctor, **a** couple of quick questions and I'll be done. You made a mention earlier that you were -- at least I thought you said **you** were putting something into a textbook as it relates to increased ammonia or hyperammonemia?

A. (Witness indicated by nodding head.)

Q. Can you tell me more about that?

A. (Witness indicated by shaking head.)

Q. You have to say yes or no to both of those questions.

A. **No**, it's a -- we are writing a book chapter, but it's in the progress.

Q. We being?

A. Somebody **else**.

Q. Who's somebody?

A. Which I'm planning to choose. It's going to be one of my fellows.

Q. Okay. You don't -- you don't have a co-author right now?

A. No, I don't.

Q. It's in the process of being written? **Are** there drafts of this or --

1 A. It is an idea. I was asking to do that.

2 Q. Okay. And whom will this -- for whom will
3 this be done?

4 A. For textbooks on nephrology.

5 Q. Okay. It is something that is not presently
6 in publication at this time?

7 A. No, it's not.

8 Q. Whose textbook are we referring to?

9 A. It's going to be Suki and Masry, TEXTBOOK OF
10 NEPHROLOGY.

11 Q. I believe you also made a comment earlier
12 that you had done a study which was never published
13 as it relates to glycine.

14 A. Yes.

15 Q. When was that done and is that available?
16 Is it --

17 A. No, it's not. Actually, I wish it were. It
18 was done several years ago when I was the chief of
19 renal service at Ben Taub. We did it with the idea
20 of see what were the -- how patients with
21 obstructive uropathy handled significant water
22 loading, and we did it with surgical resident --
23 no, urology resident who decide to be in private
24 practice and I never got around to publish the
25 thing.

1 Q. Did you record that -- the data that you --
2 did you record the data from that study? Did you
3 maintain that information?

4 A. Probably, but I don't know where it is.

5 Q. Okay.

6 A. Oh, I do, but I -- I do -- I record it, but
7 I don't know where it is.

8 MR. JACKSON: I have no further
9 questions at this time but I'll reserve my right to
10 ask additional questions when we get these
11 materials, which we assumed would be here today.

12 MR. MELLINO: Which you already asked
13 for. That was one of the formalities we were
14 waiving at the beginning.

15 MR. JACKSON: I'm not sure I've ever
16 been to an expert's depo where they didn't bring
17 their file with them, Chris.

18
19 EXAMINATION

20 QUESTIONS BY MR. IRWIN;

21 Q. Doctor, my name is John Irwin. I have a
22 couple of questions for you. Do you believe that
23 Mr. Kubach had central pontine myelinolysis?

24 A. No, sir, I don't.

25 Q. What do you believe was the mechanism of his

1 respiratory arrest? Perhaps you could describe it
2 for me.

3 A. The mechanism that I believe is that ammonia
4 produce respiratory depression, per se. If you
5 take an animal model and you infuse with ammonia,
6 the natural death of this animal is respiratory,
7 stop breathing. Apparently ammonia produce
8 selective respiratory depression, and that's what I
9 think is the mechanism of this complication that
10 occurred not only -- it's interesting -- not only
11 in this patient with this condition, but, as I
12 mentioned before, there's a recent article on the
13 "Green Journal" about total different problem, was
14 a patient undergoing chemotherapy which produced an
15 increase in ammonia, and the most side effect
16 complication of that was respiratory depression.

17 Q. Would this have been characterized by a
18 progressive change in respiratory pattern or
19 respiratory efforts or would this have been a
20 sudden, instant change?

21 A. Usually, his -- the patient began to have,
22 you know, obtundation, more labored respiration and
23 basically stop breathing. But as I mentioned
24 before, sometime it's very, very difficult to
25 characterize this respiratory changes unless you

1 are seeing the oxygenation and the blood gases
2 serially.

3 Q. Looking at what you've looked at in this
4 **case**, can you tell me whether, from the records and
5 the depositions you've reviewed, this patient had a
6 progressive change in his respiratory pattern or a
7 sudden cessation of breathing, putting everything
8 you know together about this case?

9 A. I think he got into **some** kind of problems
10 later that night, who alert one of the nurses to
11 call somebody. I think -- to call the resident
12 that was on call to evaluate the patient, and he
13 didn't make any changes, and I **also** -- the patient
14 became hypertensive. The blood pressure went **up**.
15 That's an indirect sign of CO2 retention.

16 Q. All right. Anything else --

17 A. Not that I --

18 Q. -- that come5 to your mind?

19 A. I don't recall.

20 Q. I understand the blood pressure. What are
21 the other changes that you mentioned?

22 A. I think the respiration become more labored,
23 I think.

24 Q. All right.

25 MR. MELLINO: You can read the note

1 if you --

2 Q. (BY MR. IRWIN) What do you mean by that?

3 A. Well --

4 Q. Describe that for me.

5 A. That, okay, that the respiratory rate, okay,
6 became more, you know, the depth of the respiration
7 became deeper, you know. You can -- and you slow
8 the respiration, means the respiratory rate that in
9 this guy probably was at 40 at one time, when he
10 was hyperventilating, decreased to 15, while if you
11 couple that with an increase in CO2, with an
12 increase in blood pressure, that could be the clue
13 that this guy has begun to retain CO2, because CO2
14 is, you know, one of the --

15 Q. And that would be a prelude to --

16 A. To the impending respiratory arrest.

17 Q. To the respiratory --

18 A. Yes.

19 Q. So you would expect a deeper breathing
20 pattern, a slower breathing pattern, an increase in
21 the blood pressure?

22 A. That, or -- but I saw **patients**, interesting,
23 some of the papers that we published in the "New
24 England," where -- that was actually females with
25 hyponatremia that were awake and talkative in the

1 room and the patient has an explosive onset of
2 respiratory arrest. Means, I think, there's a
3 misconception that many people have, that you
4 really need to have all this constellation. You
5 can have it, but if you don't have it, that doesn't
6 mean that you will not see this syndrome.

7 Q. All right. But in this case, from what you
8 know of Mr. Kubach's situation and the blood
9 pressure having gone up and the labored
10 respirations that you've described, you believe
11 that he had a progressive --

12 A. Yeah.

13 Q. -- labored pattern of breathing?

14 A. That was worsening, yes.

15 Q. Leading ultimately to his respiratory
16 arrest? Do you have any reason to believe that his
17 respiratory arrest was preceded by a seizure, in
18 your thinking?

19 A. Well, the only thing I see is, I think, and
20 maybe I -- you can point me down, about 18 hours,
21 at 6:00, is a question mark of a seizure activity.

22 Q. Yes.

23 A. But I don't recall seeing on -- the
24 respiratory arrest -- can I have the thing back --

25 Q. You want that?

1 A. Yes. Let **me** see.

2 MR. MELLINO: That's the same thing
3 as this.

4 A. You see, here he said, respiration laborous,
5 **Kusmaul**, and **Kusmaul** syndrome **was** described, not
6 for this, but was described in patients with
7 diabetic acidosis. And it's a type of respiration
8 that would indicate deep respiration, but we can
9 **see** it in any type, okay, of metabolic problem
10 and --

11 Q. (BY MR. IRWIN) What I'm asking is whether
12 in the scheme of the mechanism of this --

13 A. See, here he continues to say, deep and
14 labored respirations, right there. It's what I'm
15 trying to point out to you.

16 Q. All right. All right.

17 A. And at -- now, at 2:00 -- 10:30, he got a
18 respiratory arrest. That's 2230; right?

19 Q. Yes.

20 A. And that's, according to this note, I don't
21 **see** any evidence that the patient has a seizure
22 activity before that. I don't see it.

23 Q. My question is, Doctor, in your
24 understanding of this sequence, this mechanism of
25 events, is a seizure normally a part of this

1 sequence of events?

2 A. No, sir. No -- let me tell you. No on
3 hyperammonemia. In hyperammonemia, it's a more
4 progressive, deepening, chronic, if you want,
5 problem.

6 Q. A slow, downhill course over a period of
7 several hours?

8 A. Right. While in hyponatremia, however,
9 acute, what we describe, other people describe,
10 especially young female, it's abrupt onset of
11 sometime seizure followed by respiratory arrest,
12 sometime respiratory arrest alone, but I don't
13 recall seizure be part of common seen in this
14 syndrome. It's more a gradual thing.

15 Q. So I guess it's fair for me to say that, to
16 assume from what you've told me, that we're really
17 dealing with hyperammonemia, and that syndrome you
18 would expect a slow, progressive respiratory
19 distress and then a respiratory arrest?

20 A. That's right.

21 Q. Okay. Several times during your testimony
22 earlier, you gentlemen were referring to the time
23 at which Dr. Kursh was at the bedside, and I
24 believe you made it at 1800, 6:00. Take a look at
25 that note, Doctor. It looks to me like it was 1855

1 or 6:55.

2 A. Well, I don't know. I thought that was two
3 zeros.

4 Q. Read the next entry. What -- take a look at
5 that whole thing.

6 A. "18, Dr. Kursh here, aware of the decreased
7 mental status, question, seizure activity."

8 Q. All right. I see that entry as being 1800
9 and then followed by 1855.

10 A. Well --

11 Q. You -- okay.

12 A. I have no way of --

13 Q. Let me just step around, if I may, if I may
14 approach your witness. This entry, "1800, turned,
15 skin remains moist, eyes elevated up to the right,
16 decreased responsive, increased tremors of head,
17 upper extremities, KCL replacement, per Dr.
18 Nearman, 3 percent normal saline off, ask
19 Hemminger's signature." The next entry is either
20 1800 or 1855 or what --

21 A. I don't know.

22 Q. You don't know. All right,

23 A. Okay. I thought it was 1800. I'm sorry,
24 but you could be right. I don't know.

25 Q. All right. Fine. Thank you, Doctor.

1 That's all I have.

2

3

EXAMINATION

4

QUESTIONS BY MR. JACKSON:

5

6

7

Q. Doctor, if, in fact, that is 1855 rather than 1800, our references earlier to -- to 6:00 would be 6:55; correct?

8

A. Yeah.

9

10

11

MR. JACKSON: Okay. Thank you. I don't have any -- will you waive your signature to this, Doctor?

12

13

THE WITNESS: I like to see -- I like to review it, but is okay.

14

15

16

MR. JACKSON: That's your decision.

THE WITNESS: You want me to review it?

17

18

MR. MELLINO: Why don't you read it if you'd like to?

19

20

THE WITNESS: Yes, I'd like to read it.

21

22

23

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25

(Whereupon the deposition **was** concluded at approximately 1:45 p.m.)

1 I have read the foregoing testimony
2 given by me on the date and time indicated thereon
3 and have made all corrections deemed necessary.
4
5

6 -----
7 JUAN CARLOS AYUS, M.D.
8
9

10 Subscribed and sworn to before
11 me, on this, the day of , 1909.
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16 Notary Public in and for
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1 THE STATE OF TEXAS:

2 COUNTY OF HARRIS:

3
4 I, Peggy Ann Antone, Certified
5 Shorthand Reporter in and for the State of Texas,
6 do hereby certify that the facts stated by me in
7 the caption hereto are true; that the foregoing
8 deposition of JUAN CARLOS AYUS, M.B., the witness
9 hereinbefore named, was taken by me in stenograph
10 shorthand, the said witness having been by me first
11 duly cautioned and sworn under oath to tell the
12 truth, the whole truth and nothing but the truth,
13 and later transcribed from stenograph shorthand to
14 typewritten form by me.

15 I further certify that the above and
16 foregoing deposition, **as** set forth in typewriting,
17 is a full, true and correct transcript of the
18 proceedings had at the time of taking said
19 deposition.

20 I further certify that I am neither
21 attorney or counsel for, nor related to or employed
22 by any of the parties to the action in which this
23 deposition is taken, and further that I am not a
24 relative or employee of any attorney or counsel
25 employed by the parties hereto, or financially

1 interested in the action.

2 I further certify that charges for
3 the preparation of the foregoing completed
4 deposition were \$ _____ for the original
5 thereof, charged to Attorney(s) for
6 _____.

7 GIVEN under my hand and seal of
8 office on this, the 13th day of July, 1989.

9

10

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.....

12

Peggy Ann Antone, R.P.R.

13

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Notary Public, State of Texas

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