

1 IN THE COURT OF COMMON PLEAS

2 CUYAHOGA COUNTY, OHIO

3 DIANE M. CARRICK,
4 Executrix of the Estate
 of Michael Carrick,

5 Plaintiff,

6 - vs -

JUDGE KILCOYNE
 CASE NO. 185330

7 THE CLEVELAND CLINIC FOUNDATION, et al.,
8 Defendants.

9 - - - -

10 Deposition of ROBERT J. HEYKA, M.D., taken as
11 if upon cross-examination before Sandra L.
12 Mazzola, a Registered Professional Reporter and
13 Notary Public within and for the State of Ohio,
14 at the offices of Charles Kampinski Co. L.P.A.,
15 1530 Standard Building, Cleveland, Ohio, at
16 2:35 p.m. on Thursday, September 6, 1990,
17 pursuant to notice and/or stipulations of
18 counsel, on behalf of the Plaintiff in this
19 cause.

20 - - - -

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8 On behalf of the Plaintiff;

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14 On behalf of Defendant
15 Cleveland Clinic Foundation;

16 Thomas R. Kelly, Esq.
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21 On behalf of Defendants
22 Robert P. Riley, M.D. And
23 Nazih M. Zein, M.D.;

24 Dierdre G. Henry, Esq.
25 Weston, Hurd, Fallon, Paisley & Howley
26 2500 Terminal Tower
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29 On behalf of Defendant Lakewood Hospital.

30 ALSO PRESENT:

31 Patricia Molle.

1 ROBERT J. HEYKA, M.D., of lawful
2 age, called by the Plaintiff for the purpose of
3 cross-examination as provided by the Rules of
4 Civil Procedure, being by me first duly sworn,
5 as hereinafter certified, deposed and said as
6 follows:

7 CROSS-EXAMINATION OF ROBERT J. HEYKA, M.D.

8 BY MR. KAMPINSKI:

9 Q. Doctor, would you state your full name, please?

10 A. Robert Joseph Heyka.

11 Q. And spell your last name.

12 A. H E Y K A .

13 Q. Doctor, I'm going to ask you a number of
14 questions this afternoon. If you don't
15 understand, I'll be happy to repeat any question
16 you don't understand or rephrase or whatever I
17 have to do so that you and I communicate.
18 Okay?

19 When you respond to my questions, please do
20 so verbally. She is going to take down
21 everything we say and she can't take down nods
22 or gestures,

23 A. Okay.

24 Q. Doctor, I've been provided with your CV. Is
25 this up to date?

1 A. There have been some more recent publications.
2 Other than that, it's up to date.

3 Q. Why don't you tell me what additional
4 publications.

5 A. Oh, I can't remember them off the top of my
6 head.

7 Q. How many are we talking about?

8 A. Oh, three or four.

9 Q. Could you provide those to your counsel?

10 A. Sure.

11 Q. And then Mr. Gore can provide them to me.

12 MR. KAMPINSKI: Is that okay?

13 MR. GORE: Will do.

14 Q. If at any time you need to refer to the record,
15 please do so, okay? It's not a hidden ball
16 trick. If you need to look at something, go
17 ahead.

18 A. Fine.

19 Q. Doctor, your CV reflects that you commenced at
20 the Cleveland Clinic in a nephrology fellowship
21 in 1985?

22 A. Yes.

23 Q. Had you done any work in nephrology prior to
24 that time?

25 A. Only as part of the training in my residency in

1 internal medicine.

2 Q. Why don't you define what nephrology is for me.

3 A. Nephrology is a subspecialty of internal
4 medicine or adult medicine that deals with
5 diseases relating to the kidneys.

6 Q. You've been boarded separately in nephrology.
7 When I say separately, you've also been boarded
8 in internal medicine, correct?

9 A. Yes.

10 Q. How long has there been a board for nephrology?

11 A. I don't know.

12 Q. Did you pass it the first time you took it?

13 A. Yes.

14 Q. And that was November of '88?

15 A. Yes.

16 Q. And is that what your practice is limited to?

17 A. Yes. That and we've combined hypertension and
18 nephrology, so in addition to nephrology, say
19 complicated hypertension problems,

20 Q. Is there an association between hypertension and
21 nephrology?

22 A. Yes.

23 Q. What is that association?

24 A. Well, there's several really. In any individual
25 center the group within that center that would

1 deal with hypertension is partly determined by
2 historic interest. In other words, we're
3 cardiologists originally interested in it or
4 we're general internal medicine interested in
5 it, or in our case it was initially the interest
6 of a nephrologist, so historically it's been in
7 our department.

8 In addition, the kidney releases hormones
9 which have a direct effect on blood pressure,
10 and in turn, the kidney can be damaged by high
11 blood pressure,

12 Q. Is it important then to have somebody who has
13 kidney disease and high blood pressure, to have
14 their blood pressure controlled?

15 A. Yes.

16 MR. KAMPINSKI: Just show Mr.
17 Gore's associate entered the room.

18 Q. Doctor, have you had an opportunity before
19 coming here today to review either Dr. Riley's
20 records as they pertain to Mr. Carrick or his
21 deposition?

22 A. I've reviewed a summary of his deposition, yes.
23 I've not seen any other records.

24 Q. Did you at the time that you undertook to treat
25 Mr. Carrick see any of Dr. Riley's records?

1 A. I don't think so. I'm not certain. I think all
2 the records that we had were transferred from
3 Lakewood Hospital. I don't think I saw any
4 independent prehospitalization records.

5 Q. All right. There was one letter by you to Dr.
6 Riley. Would those be included in the Clinic
7 records?

8 A. Yes, they would be under the correspondence
9 section, I'm sure.

10 Q. All right. There was a letter that you sent, I
11 believe, Dr. Riley dated April 4, 1989. Here.
12 You can take a look at this one. The bottom
13 paragraph of it refers to receipt of background
14 information.

15 A. Uh-huh.

16 Q. What is it you're referring to?

17 A. I don't recall. As I said, it would -- most
18 likely it was the information that was
19 transferred with the hospital transfer from
20 Lakewood. But I don't recall if I had seen any
21 earlier information on Mr. Carrick or not.

22 Q. Did you have any a separate discussions with Dr.
23 Riley either by phone or in person regarding Mr.
24 Carrick?

25 A. I don't recall.

1 Q. Do you recall Mr. Carrick?

2 A. Oh, yes.

3 Q. Okay. You have separate recollection of him
4 other than what's contained in the records?

5 A. Yes.

6 Q. Would you have been his attending at the time of
7 his transfer to the Clinic?

8 A. Yes, I was.

9 Q. The discharge summary from the first
10 hospitalization was dictated by someone other
11 than yourself. That was a Dr. Carey?

12 A. Yes.

13 Q. And who is he?

14 A. He was the resident on my service at the time of
15 the hospitalization.

16 Q. Was he the one that actually took the history
17 from Mr. Carrick?

18 A. He was one of the people who took the history.
19 I also took a history, and I'm sure several
20 other physicians during his hospitalization as
21 well.

22 Q. What was Mr. Carrick transferred to the Clinic
23 for, Doctor?

24 A. The problem was renal failure and possibly
25 needing hemodialysis, as well as the question of

1 whether there was muscle inflammation or
2 myositis, which had been suggested on a muscle
3 biopsy that was done at Lakewood.

4 Q. Did you ever describe his primary problem as
5 osteodystrophy?

6 A. Yes.

7 Q. And what's that?

8 A. That is a general term that describes a group of
9 different bone abnormalities related to chronic
10 renal failure or chronic damage to the kidneys.

11 Q. And is that what Mr. Carrick had?

12 A. Yes. In my -- yes.

13 Q. When you say chronic damage, I distinguish that
14 from acute. I assume you do as well.

15 A. Yes.

16 Q. And in terms of the history, were you able to
17 determine how long the damage to his kidneys had
18 been ongoing?

19 A. No, not any definite date. The damage that had
20 been done is that as typically seen over years,
21 but I couldn't put an exact date on it. In
22 general terms when a person's renal function is
23 about 50 percent of normal or serum creatinine
24 of about 2.0 milligrams per dl., there starts to
25 be changes in the bones that we call renal

1 osteodystrophy. So I can define it in general
2 terms, but in his particular case I don't know
3 how long.

4 Q. Do you know how long he had had serum
5 creatinines greater than 2?

6 A. No.

7 Q. Is there any particular drug that's a treatment
8 of choice for progressive kidney failure?

9 A. No.

10 Q. What is Allopurinol?

11 A. That's a drug that technically is what's called
12 a xanthene oxidase inhibitor. It's useful to --
13 xanthene oxidase is a precursor to uric acid
14 which causes gout. Allopurinol is used in
15 decreasing the accumulation of uric acid and the
16 likelihood of gout by interfering with the
17 production of uric acid.

18 Q. What's gout?

19 A. Well, I'll answer as an internist. I'm not a
20 rheumatologist. Gout is a disorder of uric
21 acid, which is a waste product in the body, a
22 disorder of uric acid metabolism, either
23 increased production or decreased secretion.
24 And the uric acid crystals settle into joints
25 and cause acute inflammation of joints.

1 Q. Is there an association with any particular
2 level of uric acid secretion and kidney disease?

3 A. I don't think I understand.

4 Q. All right. Are uric acid elevations in the 10
5 to 14 range associated with increasing kidney
6 disease?

7 A. They are seen in kidney disease, yeah. They're
8 -- associated doesn't mean one causes the
9 other. But they are seen in chronic --

10 Q. Are you saying that this is a separate process
11 going on in the body that just happens to be
12 seen at the same time or --

13 A. Well, uric acid is one of the many waste
14 products in the body that's secreted through the
15 kidney. So any time the kidney is not
16 performing the secretory function, there will be
17 the accumulation of uric acid in the body. Now,
18 that in and of itself does not cause a gout
19 attack and does not mean a person has gout.
20 It's a mark that there is decreased function of
21 the kidneys.

22 Q. Did Mr. Carrick have gout in your opinion?

23 A. Yes.

24 Q. What is the treatment, Doctor, for progressive
25 renal failure?

1 A. well, again that's a generic term. It means
2 that there has been irreversible, progressive
3 over time, six months or more, deterioration in
4 kidney function. Now, within that there is
5 categories like hypertension, nephritis, there
6 is toxins, there is infections, there's a large
7 list of things that can cause chronic renal
8 failure, Chronic renal failure is just the
9 state where the kidneys have been progressively
10 and irrevocably damaged.

11 Q. Once again, how do you treat it?

12 A. Well, if it's caused by hypertension or
13 inflammation, depending what the disease is, you
14 might use, for example, prednisone or you might
15 just control a person's blood pressure.

16 If you can find an underlying disease
17 causing the kidney problems that you can do
18 something about, you try and treat the primary
19 disorder so that it doesn't damage the kidneys
20 any more,

21 Q. How would you go about finding an underlying
22 process, assuming that you suspected the
23 existence of chronic renal failure?

24 A. At first you would suspect it, and then either
25 on the basis of a history, physical examination

1 or kidney biopsy, you would determine what the
2 actual cause was. Not everyone who has renal
3 failure needs a kidney biopsy. If it's unclear
4 from the history and physical examination, we
5 sometimes use a biopsy.

6 Q. Do you know what the cause of Mr. Carrick's
7 kidney failure was?

8 A. No. What typically happens at the stage where
9 Mr. Carrick was when I saw him is that you get a
10 generalized picture of small shrunken kidneys
11 with lots of scarring, but multiple processes
12 can lead to that end stage picture.

13 At that point it's very difficult to try
14 and isolate which of many processes could have
15 gotten you to where you were at that point.

16 Q. So do I understand you correctly to say that in
17 terms of trying to deal with it then early, you
18 have to do some investigation earlier in the
19 process than when you saw Mr. Carrick?

20 A. Yes. It was irreversible. Chronic renal
21 failure is irreversible by definition.

22 Q. Were you able to determine whether or not there
23 had been any investigation to determine what was
24 the cause of --

25 A. No. I was unable to determine --

1 Q. Let me finish it -- what was the cause of Mr.
2 Carrick's renal failure?

3 A. No.

4 Q. would you agree that the syndrome of progressive
5 renal failure, gouty attacks and uric acid
6 levels of 12 to 14 is a well-described entity?

7 MR. KELLY: Excuse me, Chuck. Can
8 you repeat that question? I'm sorry. I didn't
9 hear it.

10 MR. KAIMPINSKI: Sure.

11 MR. KELLY: Thank you.

12 Q. Would you agree that the syndrome of progressive
13 renal failure, gouty attacks and uric acid
14 levels of 12 to 14 is a well-described entity?

15 A. I still don't understand. Do you mean the three
16 of them all being related and causing the kidney
17 damage, or do you mean all three occurring in
18 the same person and not necessarily being
19 related?

20 Q. Well, I think you told me that the increased
21 uric acid level doesn't necessarily cause kidney
22 damage.

23 A. Right.

24 Q. Okay. So I guess my answer to your question of
25 me is no, I don't mean that they all cause

1 kidney damage.

2 A. I have seen then -- yes, I've seen patients with
3 chronic renal failure and elevated uric acid who
4 also have gout.

5 Q. Would the treatment of such a patient involve
6 dietary protein restriction, Allopurinol to
7 reduce uric acid to a normal range, and
8 discontinuing potential toxins, and strict
9 control of blood pressure?

10 A. Those combinations might not be useful in every
11 patient, but what you've mentioned are useful
12 treatments in some patients, yes.

13 Q. All right. I apologize if I asked this before
14 and you answered, But is Allopurinol the
15 treatment of choice for the reduction of uric
16 acid levels? And I may have asked it
17 differently before.

18 MR. GORE: You asked a similar
19 question. But go ahead, Doctor.

20 A. Yes.

21 Q. Indocin is a nonsteroidal antiinflammatory drug,
22 is it not?

23 A. Yes.

24 Q. Could you tell me whether or not that is a cause
25 for acute and chronic kidney failure?

1 A. Yes, it is. Both.

2 Q. And is it contraindicated in patients who have
3 creatinines in excess of 2?

4 A. No.

5 Q. Where would it be contraindicated?

6 MR. GORE: In terms of creatinine?

7 MR. KAMPINSKI: Yes.

8 A. I don't think it's ever contraindicated. I
9 think if a person needs a nonsteroidal
10 antiinflammatory agent for treatment of
11 arthritis or gout or whatever, and you think
12 that's the best drug to use, then you give that
13 drug, but at the same time you closely monitor
14 the renal function. There are --

15 Q. When you say closely monitor, what are you
16 talking about? Give me some examples or ideas.

17 A. I would continue to monitor on a regular basis
18 the person's serum creatinine, look at their
19 urinalysis and monitor their blood pressure.

20 Q. Is there any time frame that one would not give
21 Indocin to somebody having kidney failure? And
22 when I say time frame, I mean years, months,
23 weeks. Would you not give it for more than a
24 couple weeks, for example?

25 A. It would depend on the circumstances. I can't

1 make a blanket statement for all situations.

2 Q. Would you give it for 15 years in a patient with
3 kidney disease?

4 A. Would I give it for fifteen years?

5 Q. Yes.

6 A. No.

7 Q. Should anybody give it for 15 years?

8 MR. KELLY: Objection. Go ahead.

9 Q. Let me ask it differently, Doctor. Do you have
10 an opinion to a reasonable degree of medical
11 certainty based on probabilities as to whether
12 or not the standard of care required of a
13 physician in dealing with a patient having renal
14 disease, whether or not the appropriate standard
15 of care is breached by prescribing Indocin to
16 that patient for a period of 15 years
17 continuously?

18 A. I think it depends on again if that's the
19 treatment that you think is necessary, and if
20 you think there's no option to that treatment,
21 if that's what the patient needs, then you give
22 them the medication that they need, but at the
23 same time you have to closely monitor the
24 effects of any treatment.

25 Q. And what effects would cause you to stop that

1 treatment?

2 A. If I saw a rise in serum creatinine, protein in
3 the urine, or a rise in the blood pressure, then
4 I would look to alternate treatments besides the
5 nonsteroidal agent.

6 Q. Is that because that would reflect to you that
7 there was an adverse effect on kidney function?

8 A. Yes.

9 Q. And if in fact you saw such an adverse -- well,
10 if in fact such an adverse effect was occurring,
11 would it be below the standard of care under
12 those circumstances to continue to prescribe it?

13 MR. KELLY: Objection.

14 A. The only circumstance I can foresee where it
15 would **be** appropriate to continue is if you had
16 exhausted all other options and in order to
17 treat the patient, that was the only option you
18 had to treat their underlying disease, Then you
19 would make a choice between damage to the kidney
20 and treatment of the other disorder that you
21 were using the Indocin for.

22 If in the balance sheet your determination
23 was it was more important to continue to give
24 the Indocin in spite of the changing kidney
25 function, then you would continue to give the

1 Indocin. That would be the only circumstance.

2 Q. When you say the underlying disease, now you are
3 talking about the gout?

4 A. Whatever you're using the Indocin for.

5 Q. Assuming it was gout?

6 A. Assuming it was gout.

7 Q. And what would be the alternative treatments?

8 A. Well again, I don't claim to be an expert in the
9 treatment of gout. In general, the alternate
10 treatments include, in addition to nonsteroidal
11 inflammatory agents, Allopurinol, prednisone,
12 different cortical steroid preparations, and a
13 group of agents called uricosuric agents that
14 increase the secretion of uric acid in the
15 kidney. Those are the four general classes for
16 treating gout.

17 Q. Do you know why Dr. Riley stopped using
18 Allopurinol with Mr. Carrick?

19 A. No.

20 MR. KELLY: Objection.

21 Q. Can high blood pressure be caused by narrowing
22 of kidney arteries?

23 A. Yes.

24 Q. Did Mr. Carrick have narrowing of kidney
25 arteries?

1 A. We never did a definitive study, which would
2 have been injecting contrast material into the
3 kidneys with a so-called renal arteriogram to
4 look for it. On the basis of physical
5 examination I was not suspicious of that as a
6 possibility.

7 Q. Did he have a unilateral small kidney?

8 A. I'd have to review the chart.

9 Q. Go ahead.

10 A. I think in his first hospitalization there was
11 an ultrasound report. The report in the chart
12 says, Findings consisting with medical renal
13 disease. Question enlarged right adrenal
14 gland. There's no mention of a unilateral
15 shrunken kidney compared to the other one.

16 Do you have the hospitalization one for the
17 first -- there it is, the first
18 hospitalization.

19 - - - -

20 (Thereupon, a discussion was had off
21 the record.)

22 - - - -

23 MR. GORE: Here is a copy, do you
24 want this?

25 A. No. It would have been a copy of the radiology

1 report on the first hospitalization.

2 Q. Well, let me ask a question then and see whether
3 it would matter to you anyhow. I mean if he had
4 a unilateral small kidney, would that be an
5 indication or one indication that there was
6 narrowing of one or both kidney arteries causing
7 high blood pressure?

8 A. That would be one of the possibilities that
9 could give you a unilateral shrunken kidney but
10 that's not the only possibility.

11 Q. Okay. Would poorly controlled blood pressure
12 and a rise in serum creatinine in conjunction
13 with the unilateral small kidney increase your
14 index of suspicion of that being the cause of
15 high blood pressure?

16 A. No.

17 Q. If that were --

18 MS. HENRY: Pardon? I didn't get
19 his answer.

20 A. No.

21 Q. And no test was done to determine that so you
22 just don't know whether that was a cause of his
23 high blood pressure or not?

24 A. If as it was written in the chart, both kidneys
25 were small and shrunken, which is more

1 consistent with a systemic process involving
2 both kidneys, not just a single kidney, as one
3 would see with chronic renal failure.

4 Q. Well, okay. I apologize if there's any
5 confusion in my question, but by the time he got
6 to you, I mean he was in chronic renal failure
7 and was not reversible, and I take it he was in
8 bad shape, correct?

9 A. That was my assessment, yes,

10 Q. Sure. Ten years before he got to you, say in
11 1980, would he have had both kidneys shrunken at
12 that time?

13 A. It would have -- the kidneys shrink when the
14 kidneys are damaged, so it would have depended
15 on how damaged the kidneys were at that time. I
16 don't know what that -- how damaged they were in
17 1980.

18 Q. If hypothetically his high blood pressure were
19 caused by narrowed kidney arteries, is that
20 treatable?

21 A. Again, there's lots of different reasons that
22 the kidney arteries could be narrowed, Some are
23 treatable and some are not.

24 Q. Okay. Treatable ones would be treatable how,
25 medication, surgically?

1 A. Either medication or in some cases surgery.

2 Q. Is it important if a person has high blood
3 pressure and kidney failure to analyze whether
4 or not the two are related?

5 A. I don't understand. The two, you mean high
6 blood pressure and kidney failure?

7 Q. Yes, sir.

8 A. I think it depends on how badly damaged the
9 kidneys are. There's no doubt that uncontrolled
10 blood pressure is the No. 1 cause of continued
11 worsening of kidney function, so whether one
12 caused the other or not, it's important to
13 control the blood pressure when there is chronic
14 renal failure.

15 Q. Did you ever determine how Mr. Carrick's blood
16 pressure had been controlled prior to his coming
17 to the Cleveland Clinic?

18 A. No.

19 Q. Were you able to do that in looking at the
20 summary of Dr. Riley's deposition? And let me
21 throw in, I mean anything that you derived from
22 that deposition prior to coming here today, go
23 ahead and use that if it forms a predicate for
24 any answer to any one of my questions.

25 A. I reviewed it a while ago. I don't have much

1 recollection from the deposition that there was
2 anything in there about the hypertension.

3 Q. Did you know Dr. Riley prior to Mr. Carrick
4 coming to the Cleveland Clinic?

5 A. I'd spoken with him over the phone once or
6 twice, I've never met him.

7 Q. In what context?

8 A. Patient referrals of his that had come to the
9 Clinic.

10 Q. Have there been patient referrals since Mr.
11 Carrick by Dr. Riley?

12 A. I'm not sure.

13 Q. Was he a nephrologist?

14 A. I don't know what you mean by a nephrologist.

15 Q. Somebody who has studied nephrology. Well, all
16 right. Let me withdraw that,

17 He indicated that there was no nephrology
18 board at the time that he went to school and
19 that he did not do a residency in nephrology,
20 but that he apparently has attended some
21 seminars at the Cleveland Clinic dealing in
22 nephrology. Does that make him a nephrologist?

23 A. Again, it depends on how you define
24 nephrologist.

25 Q. Well, why don't you define it. What's a

1 nephrologist to you?

2 A. If we define nephrologist either as someone who
3 has taken a nephrology fellowship and then
4 passed the nephrology boards, then he's not a
5 nephrologist.

6 Q. Well, how else would you define it?

7 A. That's the way I would define it. That isn't
8 necessarily the way everyone else defines it.

9 Q. In taking a history did it matter to you whether
10 or not the hypertension was adequately
11 controlled prior to his coming to the Clinic?

12 A. Yes, it was important from a historical
13 perspective. What I thought was more important
14 was what happened from the day when he came to
15 the Clinic, from that point on, because the
16 damage that had been done would not be
17 reversible. So it was less important what had
18 happened in the past.

19 Q. Do you have any opinions, Dr. Heyka, based upon
20 anything that you derived either in your
21 treatment of Mr. Carrick or the history taking
22 or in your review of the deposition of Dr. Riley
23 which you believe fell below the standard of
24 care in terms of the treatment by Dr. Riley of
25 Mr. Carrick?

1 MR. KELLY: Objection.

2 MR. GORE: Go ahead.

3 A. I think that in a patient such as Mr. Carrick
4 with chronic renal failure, it's important to
5 anticipate bone disease and to follow the
6 measures that are important in preventing the
7 bone disease, and from what I was able to
8 surmise, treatment of his renal bone disease was
9 not -- was not adequate.

10 Q. All right. When you say anticipate it, how
11 would you anticipate -- I mean what would you do
12 in order to anticipate it?

13 A. well, as I said earlier, if you take people who
14 come needing dialysis or kidney transplant,
15 close to a hundred percent will have underlying
16 bone disease, and in most studies that bone
17 disease starts when the renal function is about
18 50 percent of normal. So whenever a person's,
19 creatinine is much above 2 milligrams per dl.,
20 or their renal function is 50 percent of normal,
21 it's a good assumption that there is incipient
22 underlying bone disease.

23 Q. And you said anticipate and follow. How do you
24 follow it then when this occurs?

25 A. Well, the treatment involves several lines of

1 treatment. The first thing is to monitor two
2 electrolytes in the bloodstream, one called
3 calcium, the other called phosphorous.

4 And the first priority is to keep the
5 phosphorus level under control. Once that is
6 done, then you add supplemental calcium to get
7 that to a normal level, and then you may add
8 other medications like vitamin D to protect the
9 bones also.

10 Q. And should that have been done with Mr. Carrick?

11 A. In my opinion it should be done with every
12 patient who has chronic renal failure,

13 Q. Was that done with Mr. Carrick?

14 A, Not that I could determine when I saw him for
15 the first time at the Clinic.

16 Q. And the failure to anticipate and follow the
17 bone disease, do you believe that that
18 contributed to cause Mr. Carrick's death?

19 MR. KELLY: Objection.

20 A. Yes.

21 Q. Was he a candidate for transplant?

22 MR. GORE: Objection. For
23 clarification, when he came to the Clinic?

24 Q. Well, it's an appropriate clarification and let
25 me ask it two ways. First let me ask it when he

1 came to the Clinic.

2 A. In general a person is a candidate for
3 transplant when they reach ESRD or end stage
4 renal disease. Mr. Carrick had not yet reached
5 end stage renal disease, but over the next
6 several weeks he did so. At that point he was a
7 candidate for transplant assuming he was
8 medically able to undergo the surgery.

9 Q. Which he wasn't?

10 A. Not in my opinion.

11 Q. Doctor, assuming he had received appropriate
12 care by Dr. Riley in terms of what you indicated
13 he should have received, that is, anticipating
14 and following his bone disease, would he have
15 ultimately nonetheless needed a transplant at
16 some point in time?

17 A. I don't know for sure because again that would
18 be dependent on the underlying renal disorder he
19 had.

20 Q. Which we don't know what it was?

21 A. which we don't know.

22 Q. Okay. All right. Let's take it one step
23 further. Assuming that it was one that would
24 have required a transplant, would he have been a
25 candidate for a successful transplant?

1 A. Once he was medically stable, which he was not
2 ~~when I saw him, yes, he would have been a~~
3 candidate for a transplant or for any form of
4 dialysis,
5 Q. Why was he not in your opinion medically stable
6 at the time you saw him?
7 A. Well, I think there was a long list of reasons.
8 He had diffuse renal bone disease with calcium
9 deposits in his shoulders, along his blood
10 vessels, in his heart, in his soft tissues. His
11 gout was not under control. He was -- his blood
12 pressure was elevated and he had some degree of
13 malnutrition,
14 Q. He had been transferred from Lakewood Hospital,
15 is that correct?
16 A. Yes.
17 Q. Do you know if that was because Dr. Riley wanted
18 him transferred or because the family wanted him
19 transferred? I mean you may not know.
20 A. I don't know.
21 Q. There was a diagnosis made of secondary
22 hyperparathyroidism, is that correct?
23 A. Yes.
24 Q. And who made that diagnosis?
25 A. I did.

1 Q. On what basis?

2 A. Well, as I mentioned earlier, renal
3 osteodystrophy or renal bone disease involves
4 three or four separate entities. The most
5 common one is what's called secondary
6 hyperparathyroidism. That diagnosis was made on
7 the low calcium, the high phosphorus, the
8 extremely high PTH level, and then ultimately on
9 the pathology evaluation of the parathyroid
10 glands that were removed.

11 Q. So it was confirmed surgically, is what you are
12 saying?

13 A. Yes. And I should also say on the basis of
14 radiological extra abnormalities were also --
15 Q. And that is always seen in patients with renal
16 function less than 50 percent?

17 MR. GORE: Secondary
18 hyperparathyroidism?

19 MR. KAMPINSKI: Yes.

20 A. If you look hard enough, studies have shown you
21 will begin to see it at that stage.

22 Q. What's the treatment for renal osteodystrophy?

23 A. Well, again, within that category of renal
24 osteodystrophy, you're talking about secondary
25 hyperparathyroidism. The initial treatment is

1 to control the serum phosphorus.

2 Q. To lower it?

3 A. To keep it between 4 to 6 milligrams per dl.

4 Q. And what was it in Mr. Carrick?

5 A. I think it ranged between 8 and 10.

6 Q. So initially would you want to lower it?

7 A. You would lower it.

8 Q. Go ahead.

9 A. That would usually be done with some form of
10 antacid treatment taken with meals that would
11 help lower the extra phosphorus in the diet so
12 that less was absorbed. Once the phosphorus
13 level could be -- and it would also entail
14 changing the amount of protein and dairy
15 products in the diet because they are high in
16 phosphorus, so avoiding high phosphorus foods
17 and using an antacid to decrease absorption of
18 phosphorus.

19 Once the phosphorus was in the range of 4
20 to 6 milligrams per dl., the next goal would be
21 to normalize the serum calcium to between, oh, 9
22 and 11 milligrams per dl.

23 Q. So that would be calcium supplementation?

24 A. Yes. And then the third goal, assuming there
25 was evidence of secondary hyperparathyroidism,

1 would be some form of vitamin D.

2 Q. How about aluminum?

3 A. I don't understand the question,

4 Q. Well, would you want to reduce the aluminum
5 burden if it was present?

6 A. Yes.

7 Q. Was there any testing done to determine if there
8 was an aluminum burden present?

9 A. No.

10 Q. Why not?

11 A. The aluminum that a person with renal failure
12 accumulates gets there two ways. Either a
13 person is already on dialysis and the water is
14 contaminated with aluminum. That's no longer a
15 problem because that's monitored in dialysis
16 units. Or the person ingests large amounts of
17 aluminum. That usually occurs by taking
18 aluminum antacids to control the phosphorus.

19 There was no historic evidence that Mr.
20 Carrick had ever taken any antacids on a regular
21 basis to control his phosphorus. So I had no
22 historic evidence that he had ever been exposed
23 to aluminum to think he had an aluminum
24 overload.

25 Q. And we know he wasn't on dialysis so you didn't

1 have to worry about that?

2 A. Right.

3 Q. What's Dialume?

4 A. Dialume is an antacid that would be used to
5 control the serum phosphorus. It's taken with
6 meals. Generically it is aluminum hydroxide.

7 Q. He was given Dialume on admission, wasn't he?

8 A. Yes.

9 Q. Well, then he was receiving aluminum, correct?

10 A. Yes.

11 Q. Large doses?

12 A. No. The buildup that is necessary to cause
13 aluminum overload takes several years.

14 Q. I see. And all the treatment you've told me so
15 far has been medical as opposed to surgical?

16 A. Yes.

17 Q. Well, is dialysis also included in that
18 treatment?

19 A. **No.**

20 Q. Why not?

21 A. Dialysis in and of itself does not prevent the
22 progression of underlying bone disease. Things
23 in addition, the things that I've mentioned,
24 have to be done in addition to dialysis to
25 protect the bones.

1 Q. So it would be what you stated in addition to
2 dialysis would be the appropriate treatment?

3 A. Yes.

4 Q. Was any of that tried on his admission to the
5 Clinic?

6 A. Yes. As you mentioned, he was put on Dialume to
7 try and control his serum phosphorus. As I
8 mentioned, that is the first goal. So we would
9 not add calcium supplementation if the
10 phosphorus was under control. And he did
11 require intermittent hemodialysis at different
12 times during his two hospitalizations at the
13 Clinic.

14 Q. Well, was he dialyzed during his first
15 hospitalization at all? You can look.

16 A. No. His first dialysis was April 14.

17 Q. When was the surgery, the parathyroidectomy?

18 A. The surgery was April 11,

19 Q. So it was after surgery?

20 A. Yes.

21 Q. Well, is there a reason that dialysis was not
22 done before surgery? Or tried, I should say.

23 A. Well, again, the reason for initiating dialysis
24 is to remove the waste products from chronic
25 renal failure. At the clinical point where a

1 person had decreasing urine output and side
2 effects from the accumulated waste products,
3 then dialysis would be initiated.

4 Q. Okay. You lost me.

5 A. There was no clinical indication to start
6 dialysis before that time.

7 Q. Well, did he have renal osteodystrophy?

8 A. Yes.

9 Q. Okay. Now, I'm real confused. I thought you
10 just told me that the initial way to try to
11 treat it is medically which includes dialysis?

12 A. No.

13 Q. Oh, okay. Then you tell me.

14 A. There's two separate questions. Dialysis is
15 used when a person doesn't make enough urine or
16 when they become sick from waste product
17 accumulation. Because dialysis is not effective
18 in preventing renal bone disease, I said you
19 still have to continue doing everything that you
20 did before independent of whether a person is on
21 dialysis. The dialysis is because their kidneys
22 can no longer function on their own, but will
23 have no independent effect on the underlying
24 bone disease.

25 Q. Okay. What you are telling me, I think, is that

1 you have to try dialysis in conjunction with
2 these other modalities, that is, the lowering
3 phosphate intakes, vitamin D supplementation and
4 calcium supplementation, correct?

5 A. I don't understand.

6 Q. You try to supplement the calcium, correct? Did
7 you give dietary counseling to lower phosphate
8 intake?

9 A. Yes.

10 Q. And was there vitamin D supplementation?

11 A. No.

12 Q. Why not?

13 A. Well, as I mentioned, the first goal in
14 treatment is to control the phosphorus between
15 4 to 6. There is something called a calcium
16 phosphorus product, If you multiply calcium by
17 phosphorus and the value is greater than 70,
18 it's likely the calcium will not return to bone
19 but will be deposited in spots outside of bone.
20 It's called extra-skeletal calcification,

21 Mr. Carrick's calcium phosphorus product
22 was above 70, so the first goal was to get the
23 phosphorus under control before we did anything
24 else.

25 Q. Did you do that?

1 A. We attempted to with the Dialume, yes.

2 Q. And did it work?

3 A. **No.**

4 Q. Is that why none of the other steps were
5 undertaken then?

6 A. Yes.

7 Q. And that's why the parathyroidectomy was
8 undertaken?

9 A. Yes. There was already evidence that his
10 calcium phosphorus product had been elevated
11 long enough to cause calcification in the heart
12 valves, in the shoulder, along the blood
13 vessels, and that is usually not reversible
14 without taking the parathyroid glands out.

15 Q. Should in your opinion Mr. Carrick have received
16 a nephrology consult prior to his being admitted
17 to the Cleveland Clinic?

18 MR. KELLY: Objection.

19 A. I think he should have been seen by someone who
20 could better treat his bone disease, and likely
21 a nephrologist, yes.

22 Q. Was Mr. Carrick receiving prednisone when he was
23 admitted to the Clinic?

24 A. Yes.

25 Q. And that was for what reason?

- 1 A. I don't know.
- 2 Q. All right. That had been prescribed when he was
3 at Lakewood, correct?
- 4 A. Yes. The record says it had been for two weeks.
- 5 Q. Does that have an effect on BUN?
- 6 A. Yes.
- 7 Q. Raises it, correct?
- 8 A. Yes.
- 9 Q. Acutely?
- 10 A. Yes.
- 11 Q. And does it cause steroid myopathy?
- 12 A. Yes.
- 13 Q. What's that?
- 14 A. Well, myopathy refers to damage of the muscles
15 and steroid myopathy means that if you do a
16 biopsy, there's been damage to the muscles
17 caused by steroids a person is taking.
- 18 Q. You called in a rheumatology consult, correct?
- 19 A. Yes.
- 20 Q. And who was that?
- 21 A. Who was it?
- 22 Q. Yes.
- 23 A. I can't make out the signature.
- 24 Q. All right. You don't recall who it was?
- 25 A. No.

1 Q. The reason you called in a rheumatology consult
2 was for his gout?

3 A. Yes.

4 Q. He discontinued naproxen, continued prednisone
5 ten milligrams a day and obtained a muscle
6 biopsy, correct?

7 A. No.

8 Q. What did he do?

9 A. Aspirated right knee, looked for crystals,
10 inject steroids into the knee, give a PTH, and
11 then start Allopurinol once attack has
12 resolved. The muscle biopsy was done at
13 Lakewood.

14 Q. I'm sorry. You're right. What's CPK?

15 A. That's an enzyme in the body. It stands for
16 creatinine phosphorus kinase that comes from
17 three major sources, the skeletal muscle, heart
18 and brain.

19 Q. And what was his CPK level on admission to the
20 Clinic?

21 A. The CPK on March 29 was 50% international units
22 per liter.

23 Q. It had been 1600 at Lakewood. Were you aware of
24 that?

25 A. Yes.

1 Q. What do you attribute the reduction to, if
2 anything?

3 A. Well, I think when he presented to the Clinic,
4 there was a question of myositis or inflammation
5 of the muscles. That's why the biopsy was
6 initially done. Another alternative is that he
7 was receiving injections into his muscle which
8 can cause similar inflammation and similarly
9 raise the CPK.

10 Q. Injections of prednisone?

11 A. Of anything.

12 Q. I see. Sorry. Go ahead.

13 A. And because it resolved during his hospital stay
14 and if the biopsy did not show any myositis, it
15 is our presumption that the elevated CPK was due
16 to intramuscular injections and not myositis.

17 Q. Who placed him on Allopurinol?

18 A. At what point?

19 Q. During his stay at the Clinic. Was that you or
20 was that the rheumatologist or was that at the
21 Clinic?

22 A. It was rheumatology.

23 Q. The same person whose name you can't read?

24 A. Yes.

25 Q. Can you see it in the orders as opposed to the

1 consult?

2 A. No, I can't make the staff doctor's name out.

3 Q. Why did he put him on Allopurinol, do you know?

4 A. Well, because he was using it to treat his
5 gout. He was giving 100 milligrams every other
6 day in conjunction with Colchicine and steroids
7 into the joint.

8 Q. The prednisone?

9 A. The oral prednisone -- it was different -- they
10 were putting cortisone into the joints that were
11 inflamed.

12 Q. What were his BUNs prior to surgery? Were they
13 in excess of 1501

14 A, You mean the second admission?

15 Q. Yes. Well, you can look at the first also, I
16 think.

17 A. Yes. On March 29 his BUN was 150 milligrams
18 per dl.

19 Q. Okay. And then how about prior to surgery?

20 MR. GORE: Was the surgery the
21 11th?

22 MR. KAMPINSKI:: Yes.

23 MR. GORE: Here it is, on the
24 10th.

25 A. On April 10 his BUN was 224 and creatinine of

1 6.2,

2 Q. What is the BUN a measure of?

3 A. Well, the term stands for blood urea nitrogen.
4 It's a measure of urea, which is a breakdown
5 product in protein metabolism.

6 Q. And what does a BUN in excess of let's say a
7 hundred mean for the risk of somebody who is
8 going to undergo surgery?

9 A. The BUN can be elevated for several different
10 reasons. One is because the kidneys are not
11 secreting the BUN and it's accumulating in the
12 blood. The other reason is because a person is
13 malnourished and they're metabolizing their
14 protein because they're malnourished, So it
15 depends why the BUN was elevated.

16 Q. Why was it elevated?

17 A. Well, my initial assessment was that the serum
18 creatinine, which is another marker of kidney
19 function, was in the range of 5 to 6 milligrams
20 per dl., so that the BUN was markedly elevated
21 compared to the creatinine. I thought the BUN
22 was more reflective of muscle protein breakdown
23 from malnutrition and from the steroids than
24 reflecting underlying kidney function.

25 Q. Because of the serum creatinine level?

1 A. Yes. That in addition to the urine output.

2 Q. Which was adequate, inadequate?

3 A. Which was adequate.

4 Q. All right. If in fact it's due to malnutrition,
5 are you saying then that there is no increased
6 risk for surgery?

7 A. No, I'm not saying that. There's definitely an
8 increased risk for surgery with malnutrition,
9 yes.

10 Q. Well, okay. That may or may not have really
11 been my question. Is the increased BUN a cause
12 for concern for the surgery as opposed to the
13 malnutrition if the BUN is caused by
14 malnutrition?

15 A. The BUN is only of concern as a marker for
16 something else going on, not being intrinsically
17 toxic.

18 Q. Is a BUN in excess of 100 reflective of an
19 increase in risk of bleeding during surgery?

20 A. You're saying an isolated BUN elevation?

21 Q. Not isolated. I mean this wasn't isolated. I
22 mean he had a BUN, I think you said, of 150
23 something during his first admission.

24 A, What I mean --

25 MR. GORE: I think he means do you

- 1 want him to just consider that one factor.
- 2 Q. Yes, yes. I'm sorry. Yes.
- 3 A. Yes, there could be increased risk of bleeding
- 4 for surgery.
- 5 Q. Who cleared Mr. Carrick for surgery? Would it
- 6 have been yourself, an anesthesiologist?
- 7 A. I can't say for certain. Likely there would
- 8 have been two or three people that cleared him.
- 9 Q. Why don't you take a look and let me know who
- 10 they were.
- 11 A. Looks like he was seen by multiple people. He
- 12 was seen by Dr. Nakamoto from the renal
- 13 service, He was seen by rheumatology. He was
- 14 seen by general surgery.
- 15 Q. Did you remain his attending though?
- 16 A. The clinic system is divided into physicians in
- 17 the hospital and physicians in the outpatient.
- 18 Q. Okay.
- 19 A. So I had seen him on the initial hospitalization
- 20 and then saw him in the outpatient department.
- 21 At the time he was readmitted another physician
- 22 was on the hospital service, so I was the
- 23 physician who decided to admit him for the
- 24 parathyroidectomy. There was another physician
- 25 on the hospital service when he was readmitted.

1 Q. All right. Does that mean that the attending
2 was someone other than yourself for the second
3 hospitalization?

4 A. Yes.

5 Q. And who was that?

6 A. He was admitted to Dr. Broughan.

7 Q. Broughan. How do you spell that?

8 A. B R O U G H A N .

9 Q. Is he the doctor who did the parathyroidectomy?

10 A. Yes.

11 Q. And would he have been the doctor then that
12 would have followed up postoperatively?

13 A. Yes.

14 Q. You mentioned Dr. Nakamoto. You and he wrote a
15 paper together, I see, is that correct?

16 A. Yes.

17 Q. What was his -- a couple of them actually.

18 A. Pardon?

19 Q. Couple of them,

20 MR. GORE: You wrote a couple
21 papers together.

22 A, Yes.

23 Q. What was his role in the treatment of Mr.
24 Carrick?

25 A. Well, Dr. Nakamoto is in charge of the

1 in-hospital dialysis unit and at the point where
2 it was decided Mr. Carrick needed dialysis for
3 reasons independent of his bone disease, Dr.
4 Nakamoto arranged for his hemodialysis.

5 Q. That would have been subsequent to the surgery?

6 A. Yes.

7 Q. What were the reasons?

8 MR. GORE: For the dialysis?

9 MR. KAMPINSKI: Yes, sir.

10 A. The reasons for dialysis on that day were
11 hyponatremia, or low serum sodium, hypocalcemia
12 secondary to the operation, and metabolic
13 acidosis, or buildup of acid in the bloodstream.

14 Q. Did you have any role in the postoperative
15 period of Mr. Carrick?

16 A. No.

17 Q. Did you even see him?

18 A. Yes.

19 Q. But what, just to see how he was doing, not as a
20 treating physician?

21 A. Yes.

22 Q. Just so there is no confusion, yes, you saw him
23 just to see how he was doing?

24 A. Yes.

25 Q. No, you did not see him as a treating physician?

1 A. That's right.

2 Q. So in terms of discussing what occurred
3 postoperatively, I would be better off talking
4 to someone who did see him as a physician
5 postoperatively?

6 A. Yes.

7 Q. The decision to have him undergo a
8 parathyroidectomy, whose was that?

9 A. Mine.

10 Q. And tell me once again why you made that
11 decision.

12 A. The main reason for undergoing the surgery was
13 that I did not believe medical treatment would
14 be successful in either controlling or reversing
15 his underlying renal bone disease, It would
16 require surgery to turn his bone situation
17 around.

18 Q. And his bone situation was in that state in your
19 opinion because he hadn't been treated
20 appropriately prior to his admission to the
21 Cleveland Clinic by Dr. Riley, is that correct?

22 MR. KELLY: Objection.

23 A. Yes, that's my opinion.

24 MR. KAMPINSKI: That's all the
25 questions I have of the doctor. Some of the

1 other attorneys may.

2 MR. GORE: Mr. Kelly represents the
3 two doctors and he may question you if he wishes
4 to.

5 MR. KAMPINSKI: Before I finish
6 off, George, if possible, I would like a
7 complete copy of the Clinic record.

8 MR. GORE: No problem.

9 MR. KAMPINSKI: They're not Bates
10 stamped, are they?

11 MR. GORE: No. What I'm going to
12 do -- I don't care if it's on the record or off.
13 There's so many different things here. I'm
14 going to get the medical records people to put
15 this thing together in proper order and then I'm
16 going to have one of my people number the pages
17 and then I'll give it to you.

18 MR. KAMPINSKI: Fine. And I assume
19 the other attorneys may want one, too,

20 MR. KELLY: Yes. In lieu of asking
21 questions, I'm just going to make a simple
22 statement for the record.

23 I'm covering this for both Mr. Fifner and
24 Mr. Spisak from my office who represent Drs.
25 Zein and Riley respectively. They had both

1 originally planned to be here. Due to
2 unanticipated late developments, they asked me
3 to cover for them recently and they have also
4 asked me reserve the right to recall this
5 witness on the record, whether that meets with
6 objection or not, should they decide that that's
7 necessary for them to do so.

8 Other than that, I have no questions,

9 MR. GORE: Well, for the record,
10 this was scheduled as a discovery deposition for
11 all parties and we can talk about any future
12 recall--

13 MR. KELLY: I understand.

14 MR. GORE: -- but I don't think
15 it's going to be appropriate.

16 MR. KELLY: It may not be
17 necessary.

18 MR. GORE: Miss Henry represents
19 Lakewood Hospital.

20 MS. HENRY: I have no questions.

21 MR. KAMPINSKI: I assume you want
22 him to read it?

23 MR. GORE: Yes.

24
25

ROBERT J. HEYKA, M.D.

C E R T I F I C A T E

The State of Ohio,) SS:
County of Cuyahoga.)

I, Sandra L. Mazzola, a Notary Public within and for the State of Ohio, authorized to administer oaths and to take and certify depositions, do hereby certify that the above-named ROBERT J. HEYKA, M.D., was by me, before the giving of his deposition, first duly sworn to testify the truth, the whole truth, and nothing but the truth; that the deposition as above-set forth was reduced to writing by me by means of stenotypy, and was later transcribed into typewriting under my direction; that this is a true record of the testimony given by the witness, and was subscribed by said witness in my presence; that said deposition was taken at the aforementioned time, date and place, pursuant to notice or stipulations of counsel; that I am not a relative or employee or attorney of any of the parties, or a relative or employee of such attorney or financially interested in this action.

IN WITNESS WHEREOF, I have hereunto set my hand and seal of office, at Cleveland, Ohio, this ____ day of _____, A.D. 19 ____.

Sandra L. Mazzola, Notary Public, State of Ohio
1750 Midland Building, Cleveland, Ohio 44115
My commission expires January 6, 1992