IN THE COURT OF COMMON PLEAS 1 OF CUYAHOGA COUNTY, OHIO 2 IRENE KARR, Executrix of the Doc. 447 3 Estate of Ray Karr, 4 5 Plaintiff, Case No vs. 6 DR. FREDERICK SCHNELL, 7 175790 8 et al., Defendants. 9 10 Deposition of RICHARD W. WATTS, M.D., 11 a witness herein, called by the Plaintiff for 12 examination under the statute, taken before me 13 Heidi L. Geizer, a Registered Professional 14 Reporter and Notary Public in and for the State 15 of Ohio, pursuant to notice and stipulations o 16 17 counsel, at the offices of Reminger & Reminger Co., L.P.A., The 113 St. Clair Building, 18 Cleveland, Ohio, on Monday, July 6, 1992, at 19 9:00 o'clock a.m. 20 21 22 23 24 25 CLEVELAND, OHIO (216) 687-1161 Cefaratti, Rennillo & Matthews

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1 APPEARANCES:

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2	On behalf of the Plaintiff:
3	Don C. Iler Co., L.P.A., by
4	NANCY C. ILER, ESQ.
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8	• On behalf of the Defendant Dr. Schnell:
9	Reminger & Reminger Co., L.P.A., by
10	JOHN R. SCOTT, ESQ.
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14	On behalf of the Defendant Dr. Tank:
15	Jacobson, Maynard,
16	Tuschman & Kalur Co., L.P.A., by
17	WILLIAM BONEZZI, ESQ.
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PG LN [Ngl]KARR-WATTS 6-7-92 HG ---COMPUTER INDEX---PG LN BY-M* 3 11 RICHARD W. WATTS, M.D. BY-MS. ILER: MS. ILER: MARK 'D PG LN 3 Exhibits 1 and 2 were 2 mark'd for purposes of 25 10 Exhibit 3 was mark'd for purposes of mark'd for purposes of 32 2 Exhibit 4 was 51 5 Exhibit 5 was **mark'd** for purposes of Exhibit 6 was 110 mark'd for purposes of 1 141 18 Exhibit 7 was **mark'd** for purposes of PG LN AFTERNOON-SESSION THIS INDEX IS RESEARCHED BY COMPUTER---PG LN

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(Thereupon, Watts Deposition 1 Exhibits 1 and 2 were mark'd for 2 purposes of identification.) 3 4 RICHARD W. WATTS, M.D., of lawful age, 5 called for examination, as provided by the Ohi 6 Rules of Civil Procedure, being by me first 7 duly sworn, as hereinafter certified, deposed 8 and said as follows: 9 EXAMINATION OF RICHARD W. WATTS, M.D. 10 BY-MS. ILER: 11 MS. ILER: Let the record reflect 12 that we are taking the deposition of Dr. Watts 13 who is being presented as an expert on behalf 14 of Dr. Schnell in the above-entitled case. 15 Q. Dr. Watts, I am Nancy Iler. 16 I represent Irene Karr, who is the wife and 17 administratrix of the estate of Raymond Karr. 18 Doctor, if at any time you don't 19 understand my question or you need a document, 20 medical records, or whatever to review in orde 21 to answer that question, I wish that you would 22 take the time to look at it or tell me that you 23 24 don't understand my question, so that when you do answer my question you have understood it 25

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and you have had all the information you need | 1 to answer that. 2 Can we have that agreement? 3 Α. Yes, we do. 5 Q. Doctor, would you please state your 6 name for the record? 7 Richard Ward Watts, M.D. Α.

12 Q. Doctor, and your office address?

15 Q. And doctor, how long has your office been located on Rocky River Drive? 16 17 40 years. Α. Q. Doctor, I am handing you what has 18 been marked as Watts Number 1. Is that an 19 20 updated copy of your curriculum vitae? Α. It is. 21 Nancy, I am going to MR, SCOTT: 22 slip out and get my records. 23 (Discussion off the record.) 24 25 Q. Doctor, does your curriculum vitae

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outline your medical education? 1 2 Α. Yes. 3 Q. Doctor, according to your internal medicine? 5 6 7 Q, And have been so board certified since 1955? 8 9 Α. Yes. Q, And you have listed here also a 10 • subspecialty board in cardiovascular disease. 11 Was there a board certification in 12 cardiovascular disease? 13 14 Α. Yes. 15 Q., And was that a written test or an oral test or both? 16 17 Both. Α. 18 Q, And doctor, can you please tell me what present positions you hold? 19 20 I am the medical director of the Α. Kemper Coronary Unit in Fairview General 21 I am chairman of the critical care 22 Hospital. committee in the same hospital. 23 I am also 24 chairman of the ethics committee of Health 25 Cleveland, which is the combination of Fairvie

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and Lutheran Medical Center. 1 2 Q. Okay. And you also have a private 3 practice, is that right --Α. Yes. 4 Q, -- where you see patients? 5 Α. T do. 6 7 Q, Doctor, what duties do you have as medical director of the Kemper Cardiac Unit at 8 9 Fairview General Hospital? This involves the review of all of 10 Α. the patients who are admitted to the unit. Ιt also involves the supervision of the 12 educational facilities both for doctors and nurses in the unit, and indirectly or directly 15 I am also involved in the quality control of 16 the care rendered in the unit. Doctor, for purposes of the record 17 Q, what is the cardiac care unit? 18 This is the specialized unit which 19 Α. is dedicated to the care of heart disease, 20 usually, of course, myocardial infarction, but 21 22 it could be more broad such as acute pulmonary edema, unmanageable arrythmias, cardiogenic 23 shock, things of that sort. 24 Q. What do you do as the medical 25

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director there? Do you set policies as far as 1 2 Α. Yes. 3 Q, How do you do that? 4 5 Α. This is done by my proposing to the cardiology section various activities and also 6 various protocols for the treatment, for 7 instance, of more recently has been the 8 institution of thrombolytic therapy for acute 9 myocardial infarction, and I provide the 10 11 protocols, and then we agree upon them in a discussion of the other cardiologists. 12 Q. And doctor, when you say that you 13 provide the protocols, what do you mean by 14 that? 15 Well, I derive them from the Α. 16 literature or from talking to other 17 cardiologists around the country. In the case 18 of the thrombolytic protocol, it was derived by 19 personal contact with Dr. Ganz at Cedar Sinai 20 21 Hospital in Los Angeles, but other protocols were derived either by my own knowledge or by 22 talking with other people in the field or by 23 consulting the medical literature. 24 Q. And doctor, when you make up 25 Okay.

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a protocol, is that a written document whereby certain patients should be treated a certain way?

Well, we usually do it by way of an Α. 4 order sheet which is a preprinted order sheet, 5 and then the physician can modify it any way $h \in [$ 6 thinks is appropriate for his own patient. 7 But it gives a framework so that the physician 8 doesn't have to recapture all of the things 9 that he would like to do, and he can consult 10 the order sheet and then elaborate or modify it 11 any way he chooses to do. 12

13 Q. Okay. And doctor, when you refer 14 to the order sheet, you mean the doctor or the 15 physician's order sheet?

A. Yes.

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17 Q. Orders that he would give his18 patient; is that right?

19 A. No. The order sheet that guides20 the nurses in the treatment of the patient.

21 Q. Okay. And doctor, you have been 22 the medical director of the cardiac care unit 23 at Fairview since 1980?

A. Yes. That was when it was
officially designated such, but I was the

founder of it in 1964, so in effect I have been the medical director all those years, because : was the one who started it.

Q. I see. Now, doctor, why do you
feel it is important to have a protocol in
treating certain patients?

Well, these are acutely ill 7 Α. patients. I think we need to have everything 8 going in their favor that we can, and I think 9 that an orderly approach to the acutely ill 10 11 patients usually gives a better result than things that are done in a somewhat more 12 haphazard manner and then generates a feeling 13 at one point or another in the care of a 14 patient that if they had only thought of and 15 done things differently they might be getting a 16 17 better outcome.

18 Q. And are those protocols that you 19 have initiated and instituted at Fairview 20 Hospital, are those kept in a central 21 location? Are they kept in a binder or a book 22 somewhere?

23 A. Yes.
24 Q- Okay. And where are they usually
25 kept at Fairview?

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A. I think it is kept in the nursing
 office, and I know it is also kept on the
 unit.

Q. And doctor, do you provide any
teaching to the nurses inasfar as certain
diseases involved that the patients would have
in the cardiac care unit?

Α. I think the most important teaching 8 I do for the nurses is to direct the advanced 9 10 cardiac life support training programs, which we just did last week and also last month. 11 Τ am an affiliate faculty member of the Heart 12 Association in advanced cardiac life support. 13 So that we want to have all our nurses 14 certified in advanced cardiac life support so 15 they will have a good fundamental knowledge 16 about how to take care of acutely ill 17 patients. 18

19 Q. Okay. Doctor, what is involved
20 with the advanced cardiac life support?

A. Well, this is the evaluation and
initial support of the patient when they are
without pulse and respiration. That is basic
life support. But on top of basic life suppor
is the capability of providing endotracheal

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intubation, starting intravenouses, giving 1 2 vasoactive drugs, recognizing arrhythmias, giving direct current shock. 3 So these are life-saving measures 4 which we also have trained our paramedics. 5 Т was the founder of the paramedic program in the 6 six suburbs that are in the region of the 7 western part of Cuyahoga County. 8 Ο. And doctor, the course that you 9 teach, the advanced cardiac life support, is 10 that sponsored by the Heart Association? 11 12 Α. Yes. The original material was sponsored by the Heart Association, and they 13 have continued to add things to it. 14 The regional program dates back to the late 1970s, 15 and of course a lot of advances since then. Sd 16 the American Heart Association's responsibility 17 is to hold meetings every several years with 18 the appropriate experts around the country to 19 add or modify the program, and then we 20 incorporate that in our teaching locally as it 21 comes out from the American Heart Association. 22 Q. And doctor, where do you hold staff 23 privileges currently? 24 25 Α. Besides Fairview, I am also on St.

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John West Shore, Lakewood, Lutheran Medical 1 Center, and MetroHealth. 2 Q, 3 Have you ever held privileges at Deaconess Hospital? 4 5 Α. No. Q. And doctor, do you hold any 6 7 administrative positions or belong to any committees at those hospitals? 8 Well, I have already mentioned some 9 Α. of the things. One other thing I should 10 11 mention I now recall, I am also the director of the cardiac rehabilitation program at Fairview 12 General Hospital. 13 а. And doctor, how much of your 14 Okav. time do you spend involved in your hospital 15 16 committees and, for instance, in the advanced cardiac life support work, how much time? 17 Α. Well, over the years it is probably 18 less than five, in the past month it's been 19 three full days, but I may not be involved in 20 another advanced cardiac life support program 21 for four months or six months. 22 Q. Doctor, do you see patients every 23 day in your office on Rocky River Drive? 24 Five days a week. 25 Α.

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Q, And doctor, what type of patients 1 do you see in your practice? 2 3 Α. Well, they are predominantly in cardiology, of course, and cardiology is 4 predominantly ischemic heart disease in its 5 various manifestations. We don't have much in 6 the way of rheumatic heart disease anymore. 7 W have some patients with cardiomyopathy. 8 Hypertension, of course, is a very common form 9 of heart disease. 10 Those would be the main ones. 11 12 Congestive heart failure, of course, is spread across the whole spectrum of diagnostic 13 categories, and that is a very large part of 14 15 our practice is congestive heart failure. So doctor, as far as internal Q, 16 medicine is concerned, you really focus more o 17 your subspecialty of cardiology? 18 Yes. The one exception would be 19 Α. that if a patient of mine who was primarily a 20 21 cardiac patient has internal medicine problems arthritis, diabetes, and things of that sort, 22 peptic ulcer disease, I don't send them off to 23 three different specialists when, since I am 24 board certified in internal medicine, I feel I 25

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am competent to handle the other ancillary 1 problems within the setting of the cardiology 2 3 problem. Q, And doctor, can you give us a 4 definition of cardiology? 5 Well, it is the study of the 6 Α. diseases of the heart and the circulatory 7 system, their diagnosis, and their management. 8 Q. Okay. But you don't perform 9 surgery? 10 Α. No. 11 12 Q. Okay. And I think you mentioned earlier, doctor, that you treat coronary arter 13 disease? Is that --14 15 Α. Coronary artery disease. Q. What is that, doctor? 16 Well, that is disease of the 17 Α.

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20 coronary artery may have other diseases, but in 21 this time in history arteriosclerosis is far 23 / 24 1 25 1 CLEVE ND. OHIO (216)687-1161 Cefaratti, Rennillo

1 Α. Yes. 2 Q. Doctor, you said at the bottom of your CV, it states, author of 15 scientific 3 publications. 4 Α. Yes. 5 Q, Is that right? Do any of those 6 7 publications haue anything to do with the issues in Mr. Karr's case? 8 I would think that the only articl 9 Α. that immediately comes to mind would be an 10 article which has to do with the preoperative 11 evaluation of a cardiac patient who is 12 undergoing noncardiac surgery. 13 Q., And doctor, what's the name of the 14 article? Where is that published? 15 That is the name of the article, 16 Α. and it is published in the University of Santo 17 Tomas in Manila in the Philippines. 18 Q. And do you have a copy of that 19 paper, doctor? 20 21 Α. Yes. And would you give it to Mr. Scott Q, 22 so he can give it to me? 23 I shall. 24 Α. And doctor, did you do some work i 25 Q.

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1 the Philippines?

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21 A. Well --

Q, I see that 🖛

In the summer of 1969 I was invite 4 Α. 5 to the Philippines to give four different talks. A good friend of mine was the head of 6 7 cardiology at University of Santo Tomas, and s I gave that, as well as three other talks, and 8 he wanted to know if I published them, and I 9 said I hadn't. He said, I'd be delighted to 11 have it published in our medical bulletin. So 12 I provided the manuscripts, he had them published. 13 MS. ILER: Mr. Scott, I'd make a 14 15 request for that --

16 MR, SCOTT: Okay.

MS. ILER: -- publication, please. Q. Doctor, you are not involved in an medical research currently, are you?

20 A. No.

21 Q. And do you hold any academic. appointments, doctor?

A. Yes. I am the assistant clinical professor of medicine at Case Western Reserve University School of Medicine.

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1 Q. And how long have you held that 2 position, doctor? 3 A. 20 years, I guess. 4 ' Q. And what types of students do you 5

9 also meet medical students at MetroHealth to
10 teach them to read electrocardiograms. I do
11 that three months a year.

14 A. Yes.

Well, I graduated in 1946 and he 19 Α. 20 graduated in 47, so he just celebrated his 45th reunion. 21 Q, And did Dr. Schnell ask you to be 22 an expert on his behalf --23 24 Α. No. ... in this case? Who contacted Q. 25

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1 you?

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2	A. Mr. Scott.
3	Q. Okay. Do you and Dr. Schnell treat
4	patients independently or do you refer patients
5	to Dr. Schnell, does he refer patients to you?
6	A. Pretty much independent. Our areas
7	are sort of adjacent but don't overlap. He
8	probably has a couple of patients that I used
9	to treat, I don't know. I have a couple of
10	patients that he used to treat. So we have
11	perhaps once a year communication either in
12	writing or by telephone.
13	Q. And have you ever shared an office
14	with Dr. Schnell?
15	A. No.
16	Q. Do you know Dr. Tank?
17	A. Only by name. I have talked to him
18	once or twice on the phone, again, about mutua
19	patients. I don't I have not knowingly eve
20	seen him.
21	Q. But you have had patients you
22	know that Dr. Tank is a neurosurgeon?
23	A. Yes.
24	Q. And you have had patients that hav
25	been treated by Dr. Tank and you have

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communicated with him concerning those 1 patients? 2 3 Α. Yes. Q. Do you know Dr. Suppes? 4 5 Α. Yes. Q, And how do you know him? 6 He was president of the Academy of 7 Α. Medicine some years ago. He and I were on the 8 9 trauma committee about 15 years ago. I knew oj him mainly through that. Actually I know his 10 associate Dr. Kious better, because Dr. Kious 11 was trained at Fairview, and so I have known 12 him since his training days, which must be 15 13 14 or so years ago. 15 Q. And do you know Dr. Bohl? Α. No. 16 Q, Doctor, do you know Dr. Likavec? 17 Α. No. 18 Q, Dr. Likavec is a neurosurgeon at 19 MetroHealth Medical Center. 20 T don't know him. Α. 21 Q. Have you spoken with Dr. Schnell 22 concerning this case? 23 24 Α. No. Q. Have you spoken with Dr. Suppes 25

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concerning this case? 1 2 Α. No. Q. Doctor, have you reviewed medical 3 negligence cases before this case? 4 Α. Yes. 5 Q, And how many cases have you 6 reviewed over the years? 7 In the last five years it probably 8 Α. averages about eight to ten cases a year. 9 10 • Q, What types of cases do you review? Well, these are all cardiology 11 Α. cases. This case is not too dissimilar. They 12 usually involve a fatality and either somebody 13 sent home from the emergency room 14 inappropriately or some untoward event that 15 occurs during a hospital stay. 16 Q, And have you reviewed cases for the 17 firm of Reminger & Reminger before? 18 Α. Yes. 19 And have you reviewed cases for Mr 20 Ο. Scott before? 21 22 Α. Yes. ١ Q. And how many cases have you 23 reviewed for Mr. Scott? 24 I would have to guess, I would 25 Α.

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think four or five, something like that. 1 Q., And all those cases, those 2 obviously were on behalf of physicians? 3 Α. Yes. 4 Q. And in all those cases did you find 5 that the physicians' care was appropriate? 6 Α. No. 7 Q. Okay. Have you been to court to 8 testify? 9 10 Α. Yes. Q, How many times have you been to 11 court? 12 That probably averages about once a 13 Α. year. I think the last time I was in court was 14 actually about a year and a half ago. I don't 15 16 think I testified in court during 1991. 0. 17 And on whose behalf did you testif in court the last time? 18 State of Ohio. 19 Α. And what was that case about? 20 Q, Α. Workmen's Compensation, a retired 21 policeman was suing the Workmen's Compensation 22 alleging that his coronary disease was due to 23 his employment as a policeman for the City of 24 Cleveland. I didn't feel that that was the 25

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case, and so I testified for the State or 1 Ohio. 2 Q. And have you reviewed medical 3 4 negligence cases for other attorneys in the firm of Reminger & Reminger? 5 6 Α. Yes. Q. 7 Which attorneys are those? Marc Groedel, Pete Marmaros, James 8 Α. I think those are the only ones. 9 Malone. Q. And those are on behalf of 10 physicians? 11 12 Α. Yes. Q. Those cases? Do you review any 13 cases on behalf of patients in medical 14 15 negligence cases? I have. 16 Α. 17 Q. And which attorneys have you worke with, which plaintiffs' attorneys? 18 DeChant of Stewart & DeChant, A 19 Α. fellow by the name of Fazio on a patient 20 several years ago, on the part of a deceased 21 patient several years ago. 22 Those are the only two plaintiffs' 23 cases that immediately come to mind. 24 Q. And do you review medical 25

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negligence cases for any other defense firms i 1 the city? 2 3 Α. Yes. Q, And which firms are those? 4 i 5 Jacobson, Maynard, Tuschman & Α. Kalur; Arter & Hadden. I think those are the 6 main ones. 7 Q. And which attorneys have you worked 8 with over at Jacobson, Maynard, Tuschman & 9 10 Kalur? Mainly Steve Charms. Α. Q. And doctor, are you insured by 12 Physicians Insurance Exchange? 13 Α. 14 Yes. MR. BONEZZI: Objection. 15 MR. SCOTT: Objection. 17 Α. I am. So doctor, is it fair to say that 18 Q, most of your review of medical negligence cases 19 is on behalf of physicians? 20 Α. Yes. 21 Q, 22 Doctor, what do you charge for your review of medical negligence cases? 23 \$200 an hour. 24 Α. 25 And is that \$200 an hour for Q, CLEVELAND, OHIO (216) 687-1 161

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deposition time, also? 1 2 No, that is \$300. Α. Q. And for your in-court time? 3 4 Α. \$400. Q. \$400 an hour? 5 Α. Yes. 6 Q. 7 Doctor, when were you contacted to review this case? 8 I think it was well over a year Α. 9 10 ago. I don't recall exactly. Q, And do you keep --11 12 (Telephone interruption.) MR. SCOTT: Go ahead. 13 (Recess taken.) 14 Q. Doctor, I have had marked as Watts 15 Exhibit Number 2 a duces tecum which has 16 17 instructed you to bring certain materials with 19 not communicate this to you, but I'd like to q through it at this point. 20 21 It asked you to bring with you today all materials you reviewed in connection 22 23 with the above-entitled case. Can you tell me, 25 Α. No.

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Can you tell me what you received Q. 1 to review in this case from your memory? 2 Don't you have the copy of my 3 Α. 4 letter that I sent to Mr. Scott? That lists 5 them all. In fact, that looks like it right there. 6 7 Q. Right. 8 9 (Thereupon, Watts Deposition 10 Exhibit 3 was mark'd for purposes of identification.) 11 12 13 15 as Exhibit Number 3. Does that help you in telling us what materials you reviewed in this 16 17 case? It does. 18 Α. Q. Which materials did you review in 19 20 this case? Well, the office records of Dr. Α. 21 Schnell relevant to Ray Karr; the Deaconess 22 23 Hospital records of Ray Karr May 2 to 5, 1988; the office records of Dr. Tank; the autopsy

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1 October 4, 1990; Dr. Tank's deposition of 2 October 31, 1990; and Dr. Singer's letter of 3 June 26, 1991. 4 Q. Okay. And doctor, when you 5 reviewed -- did you read in the entirety the 6 deposition of Dr. Schnell? 7 A. It's been so long since I read it

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12	that	you a	and I	have	just	talked	abou	t, w	ho a	are
13	you,	where	e you	have	been	trained	l, and	l so	on	•

18	
19	materials that you have just outlined for us
20	did you take any notes?
21	A. Yes, I took some notes.
22	Q. And do you have those notes in your
23	office or in your file?
24	A. I have them at home.
25	Q. I would ask you to produce those t o
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Scott so I can take a look at those. 1 Mr. Α. I shall. 2 MR. SCOTT: I will make some notes 3 THE WITNESS: Okay. 4 Q. Doctor, the second item that I hav 5 asked you to bring with you today are all 6 7 medical literature, periodicals, books, et cetera, that you reviewed in connection with 8 this case. 9 Did you review any such medical 10 literature? 11 Α. No. 12 Q. And why was that? 13 Well, there wasn't anything so Α. 14 unusual about this case that caused me to 15 consult any articles or textbooks. It is the 16 kind of patient I deal with all the time. 17 And since writing your letter or Q, 18 your letter report of December 8 of 1991 have 19 you consulted with the medical literature? 20 Α. No. 21 Q, I have also asked you to bring wit 22 you an updated copy of your curriculum vitae, 23 and we have had that marked as Exhibit Number 24 25 1.

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And I asked for all reports and 1 notes made in connection with this case. And 2 doctor, is Exhibit Number 3 the only report 3 that you have written in this case? 4 Α. Yes. 5 Q . And that is a letter report to Mr. 6 7 Scott dated December 8 of 1991? 8 Yes. Α. Q, And you said that you have made 9 some notes in your review in this case, and you 10 are going to give those to Mr. Scott and he can 11 give those to me? 12 13 Α. T shall. Doctor, for purposes of the record, Q. 14 you did not review the Cleveland Clinic record 15 for Mr. Karr? 16 17 MR. SCOTT: Doctor, may I answer? If he has a recollection, and then I can assis 18 in that. 19 Α. I am not sure that I did. If I di 20 -- well, let me put it this way. If they were 2 1 in Dr. Schnell's office records then I would 22 have reviewed it. I have a recollection of 23 having seen something from the clinic, but I 24 don't know whether it was Dr. Schnell's 25

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comprehensive evaluation of what they sent to 1 him or whether it was the actual material. 2 Q. Doctor, you haven't reviewed any 3 X-rays or myelogram films in this case, have 4 5 you? 6 7 summaries of this case, factual summaries by 8 Mr. Scott? 9 10 me to review the evidence he had a several-page 11 summation of the essential points of the case 12 as he saw it. 13 Okay. 14 MS. ILER: And I would ask that that be produced, Mr. Scott. 15 Doctor, in your review of the Ray 16 Q. Karr case, did you speak with any physicians 17 about your review? 18 19 Α. No. Q. Doctor, what medical journals do 20 21 you subscribe to? American Journal of Cardiology, 22 Α. Annals of Internal Medicine, Archives of 23 Internal Medicine, Circulation, Progress in 24 Cardiovascular Diseases, Journal of the 25

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American Medical Association, Mayo Clinic 1 2 Bulletin, the Bulletin of the Royal Society of Medicine. I think that comprises everything. 3 Q., Doctor, I'd like to direct your 4 5 attention now to Mr. Karr's admission to Deaconess Hospital on May 2 of 1988, and I'd 6 like to talk about his preoperative condition. 7 Okay? I realize you do not have your records 8 in front of you, but I think Mr. Scott has the 9 medical records in case you need to consult 10 11 those. Doctor, on May 3 of 1988, what was 12 Mr. Karr's diabetic condition? 13 May 2? 14 Α. Q. Yes, or the 3rd? 15 The day after the operation? 16 Α. 17 Q. The day --Of the operation? 18 Α. 19 I think it is the day MR. SCOTT: 20 of, isn't it? Let's take a look. I thought he 21 Α. was admitted on the 2nd. 22 Ο, Let me do this. Let me rephrase 23 24 the question and make it clearer for us. 25 Α. The day before the operation?

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Yes. I'd like to know what the Q, 1 condition of his diabetes was on May 2, which 2 was the day before his back surgery. 3 Controlled with insulin. Α. 4 Ο. Do you know, in your review of the 5 records did you note how long he had been a 6 diabetic? 7 Well, rather than work from memory а Α. let's take a look at the record. 9 Q. Sure. 10 I know he had been a diabetic for 11 Α. long time. There should be the consultation o 12 Dr. Schnell. 13 MR, SCOTT: All right. Do you wan 14 the admission record? 15 THE WITNESS: Yes. 16 MR. SCOTT: Here is Schnell's 17 consult. 18 Q. Let me see what you are looking at 19 doctor. 20 This is the --Yes. Α. 21 Q, Okay. You know what I will do, 22 doctor, I will have that marked as an exhibit 23 so we know what you are speaking with. 24 25

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(Thereupon, Watts Deposition 1 Exhibit 4 was mark'd for purposes 2 of identification.) 3 4 Q, 5 Doctor, I'm handing you what has been marked as Exhibit Number 4. And that is 6 Dr. Schnell's consultation record on Mr. Karr? 7 Α. Yes. 8 Q. 9 Did you review that in preparation for your letter report of December 8? 10 Α. I did. 11 Q, Now, doctor, with that information, 12 you were referring to that particular 13 consultation report when I asked you what Mr. 14 Karr's diabetic condition was on May 2; is that 15 right? 16 That's right. 17 Α. Q. Okay. And can you tell me what Mr. 18 Karr's condition -- what the condition of his 19 diabetes was on May 2 of 1988? 20 Well, Dr. Schnell has termed his 21 Α. diabetes **as** diabetes mellitus on insulin, dash, 22 poor control. 23 Q. 24 And what does that mean to us, 25 doctor?

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Well, he had required increasing 1 Α. 2 amounts of insulin partly because of poor dietary compliance. 3 Q. And how long had Mr. Karr been 4 treated for his diabetes? 5 6 Α. Since 1969, and he went on insulin in 1975. 7 Q, And doctor, what type of treatment 8 was given for his diabetes? 9 Well, since 1975, besides diet, he 10 Α. was taking insulin. 11 Q. And doctor, was Mr. Karr's diabete 12 a contraindication to the surgery of May 3 of 13 1988? 14 Α. No. 15 Q. Why not? 16 Well, first of all, it was 17 Α. recognized; second of all, it was under 18 treatment; third of all, Dr. Schnell was 19 following it, was prepared to follow it 20 postoperatively and to make suitable 21 adjustments of insulin as were required in the 22 postoperative period. 23 Q, And when you say Dr. Schnell was 24 prepared to follow the diabetic condition 25 CLEVELAND, OHIO (216) 687-1161

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postoperatively, what do you mean by that? 1 2 Α. Checking blood sugars and giving the appropriate amount of insulin. 3 Q . And doctor, what type of effect 4 does that diabetes of since 1969 have on Mr. 5 Karr's body? 6 7 Well, he had developed diabetic Α. retinopathy, which was first recognized in 8 1979, and had been controlled by laser 9 treatments to the retina. 10 And doctor, for purposes of the Q, 11 record, what is retinopathy? 12 13 Α. That is primarily disease of the blood vessels of the retina in which they 14 develop aneurysms and hemorrhages, and the 15 16 hemorrhages destroy that portion of the retina, so progressive loss of vision is the result. 17 Q, And that's caused by the diabetic 18 condition? 19 20 Α. Yes. Q. And doctor, what was the condition 21 of Mr. Karr's hypertension preoperatively? 22 It was under control with the use 23 Α. of several different medications. 24 Q, And how long had Mr. Karr had 25

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hypertension? 1 2 Α. Since **1969**. Q., And you are looking at Exhibit 3 Number 4? 4 4. T am. 5 Α. Q. Doctor, what is hypertension? 6 That is an elevation of the blood 7 Α. pressure, arterial blood pressure. 8 Q , And in Mr. Karr, what was the caus 9 of his hypertension? 10 It probably was at least partly due 11 Α. to diabetes with diabetic involvement of the 12 kidneys, but it may well have had other 13 factors, as well. 14 Q, And how long had Mr. Karr had 15 16 hypertension? That was first recognized in 1969, 17 Α. which coincided with the onset of the 18 19 diabetes. Q. Okay. And how was Dr. Schnell 20 treating Mr. Karr's hypertension? 21 He was taking a number of Α. 22 medications. They are not listed here, but 23 24 perhaps --MR. SCOTT: Do you want them, 25

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Nancy? 1 MS. ILER: Yes. 2 Α. He was taking Capoten, 3 hydrochlorothiazide, HCTZ, Inderal, Calan SR. 4 I believe those are the four antihypertensives 5 that he was taking preoperatively before 6 hospitalization. 7 8 He also was given Hydrallazine on I'm not -- I don't recall now whether May 2. 9 he was taking that before admission. 10 Q, And was Mr. Karr's hypertension a 11 contraindication to his back surgery? 12 No. 13 Α. 14 а. Why not? Well, again, it had been controlle 15 Α. fairly effectively over a long period of time, 16 and again, we do have various agents to give t 17 18 control hypertension in the postoperative Even in a patient who can't take 19 period. anything by mouth we could give medication 20 21 sublingually or transcutaneously or intravenously to help control the blood 22 pressure. 23 24 Q, Is it important for a physician 25 such as Dr. Schnell to know about Mr. Karr's

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diabetes, about his hypertension, knowing that 1 Mr. Karr is going to surgery the next day? 2 Yes. Α. 3 Q., And why is that? 4 Well, we can best control the 5 Α. postoperative complications if we are aware of 6 them preoperatively and are prepared to 7 evaluate and respond to the situations as they 8 develop. 9 0. And what postoperative 10 complications would a physician or should Dr. 11 Schnell have been looking toward? 12 Well, an operation, of course, 13 Α. would cause the insulin requirement of the 14 diabetes to increase tremendously, so that he 15 would have to be prepared to get frequent blood 16 sugars and give insulin at the appropriate 17 doses, probably a larger dose than he was 18 taking in the normal state before the 19 operation. 20 And with his long-standing 21 hypertension, of course, control of his blood 22 pressure so it did not go too high would be 23 another of the concerns about his postoperative 24 25 period.

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Q. Doctor, what was the effect of Mr. 1 2 Karr's hypertension on his body? It would cause enlargement of the 3 Α. heart. 4 Q. And how does that occur? 5 Well, the heart is **a** muscle, and if Α. 6 7 the muscle works harder it gets bigger, just like lifting weights or doing push ups, except 8 in the case of the heart, since it is working 9 all the time against increased pressure, it 10 also enlarges. 11 Q. How does it work? Can you explain 12 for me how it works under increased pressure? 13 Is that due to the hypertension? 14 Α. Yes. 15 16 0. And how does that cause --Well, when the heart ejects blood 17 Α. into the artery, it is facing a higher degree 18 of resistance in the forward flow of the blood, 19 so it has to exert more energy to pump the 20 blood out of the heart against that greater 21 resistance. 22 Ο. And was that mechanism known by Dr. 23 Schnell? 24 25 Α. Yes. CLEVELAND, OHIO (216)687-1161

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0. And how did Mr. Karr's diabetes 1 affect the condition of his body 2 preoperatively? 3 MR, SCOTT: You asked that once, 4 Nancy, and doctor responded about the 5 6 retinopathy. Ο, Is the condition of Mr. Karr's 7 diabetes, the effect on his body limited to 8 9 just his eyes? Α. Yes. 10 Ο. And how did you determine that, 11 12 doctor? By reviewing the Deposition Number 13 Α. 4 of the consultation by the treating 14 physician, Dr. Schnell. 15 Q. And what did that tell you? 16 Well, on page two he lists the Α. 17 diagnoses, and I have already referred to 18 diabetes mellitus on insulin, dash, poor 19 control. 20 The other thing that he lists is 21 diabetic retinopathy. Of the eight diagnoses, 22 those are the only two that are relevant to $th \in$ 23 diabetes. 24 Q. I see. And doctor, the fifth 25

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diagnosis under the consultation record on page
 two is minimal nonobstructive coronary disease,
 dash, nonsymtpomatic.

What did you understand that to be? 4 He had a cardiac catheterization at Α. 5 the Cleveland Clinic in 1981 which showed 6 minimal irregularities of the right coronary 7 artery and the left anterior descending without 8 obstruction and a 40 to 50 percent obstruction 9 in the posterolateral branch of the circumflex 10 coronary artery. And the next sentence goes on 11 to say, none of these lesions were thought to 12 be hemodynamically significant. 13

He hadn't had any symptoms he had reported to Dr. Schnell since that time that indicated that he was having any symptoms relevant to the coronary circulation.

18 Q. Doctor, what is minimal 19 nonobstructive coronary artery disease in 20 layman's terms?

A. Well, it means that the cbronary
artery is not totally normal, but it is not
causing a significant enough narrowing to
produce any symptoms.

Q. What symptoms would you expect to

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1	see?
2	A. The classic symptom, of course, is
3	angina.
4	Q. Which is what, doctor?
5	A. That is a pressive feeling in the
6	center of the chest, usually provoked by
7	anything which causes the heart to work harder
8	most commonly, of course, exertion, excitement
9	eating, exposure to cold. All of the things
10	that increase heart work may provoke the
11	symptom of angina.
12	Q. Any other symptoms, doctor, that
13	you would expect to see?
14	A. Shortness of breath on exertion
15	sometimes is what we call an anginal
16	equivalent. It is not the oppressive chest
17	pain, but it is provoked by impaired
18	circulation to the heart muscle due to coronar
19	disease.
20	Q. Doctor, what's a cardiac clearance
21	A. Cardiac clearance is the clearance
22	for surgery of a patient who has known
23	circulatory diseases.
24	Q. Okay. And why was a cardiac
25	clearance ordered on Mr. Karr preoperatively?

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1 Because of his medical conditions Α. of hypertension, diabetes, and the past 2 history, of course, of the internal carotid 3 endarterectomies, which is a circulatory 4 condition, and the vascular insufficiency of 5 the lower extremities, 6 So all of these things, of course, 7 mandated a cardiac or in this case circulatory 8 clearance for elective surgery. 9 Ο. And doctor, what does a cardiac 10 clearance involve? 11 Α. Well, it most importantly starts 12 off with the history of the patient, the 13 physical examination of the patient, and the 14 review of the laboratory data. 15 Q, When performing a cardiac 16 clearance, doctor, what type of history do you 17 want to elicit from the patient? 18 Certainly the past history. 19 Α. In Mr Karr's case the past history of hypertension 20 and diabetes, the past history of the cardiac 21 catheterization, the past history of the 22 23 carotid endarterectomies, the fact that he had 24 some leg symptoms when he walked. So those 25 would be all pertinent events in the history.

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Q, And doctor, what did those events 1 in the history tell Dr. Schnell about Mr. 2 Karr's cardiac condition? 3 MR. SCOTT: I'm going to object 4 just for the record, and then you may continue 5 to question concerning the medical clearance, 6 since plaintiff's expert, Dr. Singer, has not 7 listed medical clearance as one of the areas 8 allegedly deficient in the care of Dr. Schnell. 9 You may answer if you can, doctor. 10 What was the question? Α. 11 12 MR, SCOTT: If you remember the question. 13 Q. I forgot it, too. Heidi, would you 14 mind reading that back for me, please? 15 (Record read.) 16 Q. Doctor, would you like your answer 17 read back where you listed those particular 18 19 events? Well, I think I can do it right Α. 20 from the record here. 2 1 Well, it told Dr. Schnell that Mr. 22 Karr had hypertension which had required quite 23 a complicated medical program, and it told Dr. 24 Schnell that Mr. Karr had diabetes mellitus and 25

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had symptoms of impaired circulation to the 1 legs on exertion, and had had cardiac 2 catheterization which showed that his coronary 3 arteries were not normal, 'although not 4 significantly obstructed, and that he had had 5 endarterectomies of both carotid arteries. 6 Q . Doctor, does Mr. Karr's diabetes 7 have any effect on his heart? 8 It was not evident in the Α. 9 preoperative clearance that it had had an 10 effect on his heart: 11 Q, In a patient who has had diabetes 12 of the duration that Mr. Karr did, what type of 13 changes in the heart, if any, would you expect 14 tu see as an internal medicine physician? 15 Well, diabetes, unfortunately, Α. 16 increases the rapidity of the onset of 17 arteriosclerosis in the coronary circulation. 18 ٠Q Doctor, what in plain language is 19 arteriosclerosis? 20 Hardening of the arteries. 21 Α. Q, So just to summarize it, in Mr. 22 Harr, the patient who has had diabetes as long 23 24 as Mr. Karr, you would expect to see some hardening of the coronary arteries; is that 25

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1 right?

1	right?
а	A. Yes.
3	Q. Okay. And doctor, what
4	significance, if any, was Mr. Karr's leg
5	symptoms as you referred to them? I think on
6	page one of Exhibit Number 4 it states, at the
7	time of his last examination prior to referral
8	to Dr. Tank he was found to have some decreasec
9	leg pulses associated with left calf
10	claudication.
11	What does that mean to you as a
12	physician?
13	, A., , Impaired circulation to the legs.
14	Q. Caused by,what?
15	A. Well, the next sentence indicates
16	that it was not certain that his claudication
17	was due to impaired circulation or impaired
18	neurologic function, because he had disk
19	disease, and disk disease causes pain down the
20	leg.
21	Q, Doctor, in performing a cardiac
22	clearance, you stated part of that was to do a
23	physical examination; .is that right?
24	A. Right.
25	, Q. And what things would you want to

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1 be examining as a physician? Well, certainly you want to look in 2 Α. the eyes. 3 And what would you be looking for? Q. 4 Evidence of hardening of the Α. 5 arteries and, of course, in his case the statu: 6 7 of the diabetic retinopathy. One would examine the neck, the 8 status of the circulation in the carotid 9 arteries; blood pressure, of course; listening 10 to the lungs for any sign of congestion; 11 listening to the heart for any abnormal heart 12 13 sounds or murmurs; the checking the abdomen to detect any enlargement of the liver or the 14 abdominal aorta; and checking the legs for 15 pulses and the presence of abnormal sounds. 16 Ο, And that would be an assessment of 17 the circulation of the legs? 18 . . . Α. Yes'. 19 Q. Your physical examination when 20 21 performing a cardiac clearance seems to be directed to the circulation, and why is that? 22 Well, that's where the problems 23 Α. I didn't mean by my previous answer to 24 lie. say that we wouldn't do other things. I check 25

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everything I can, but obviously we are focused 1 2 predominantly on the circulation in this patient. 3 Q, Why is that? 4 Α. Because we know he has known 5 hypertension and peripheral arterial disease i 6 the form of carotid, and probably in the legs. 7 0,. And does that cause -- does that 8 present an increased risk, those conditions 9 present an increased risk for surgery? 10 11 Α. Yes. Q, And how do they do that? 12 Well, with impaired circulation, o Α. 13 14 course, he is at somewhat greater risk than th person who comes in with a normal circulatory 15 16 system. Q. And why is he at increased risk, 17 doctor? 18 Why is he at increased risk? A. 19 Q. Yes. 20 Because he had evidence for 21 Α. impaired circulation in the legs certainly and 22 the past history of operation on the carotid 23 arteries, so we know his circulatory system is 24 impaired in multiple locations. 25

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Q: And how does his going to surgery 1 affect those conditions? How does it --2 Well, we hope it doesn't affect it 3 Α. at all, but of course these arteries are not 4 normal arteries, so that we would be concerned 5 about the support of the circulation in terms 6 of the blood pressure. 7 He would be at greater risk of 8 complications if his blood pressure were to go 9 too low compared to a person with normal' 10 circulation who could tolerate a low blood 11 pressure for a longer period of time and 12 probably to a greater degree than Mr. Karr 13 could. . 14 And doctor, part of your cardiac 15 Q. clearance is also review of the laboratory data 16 17 available is that right? Α. That's right. 18 And what type of data would you be 19 Q . · looking at? 20 21 Α. Chest X-ray, electrocardiogram; blood chemistries, arterial blood gasses. 22 Q. Doctor, what would you be looking 23 for in a chest X-ray on a patient like Mr. Karı 24 going to surgery? 25

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Α. Well, two things. One would be 1 evidence €or , cardiacenlargement and the other 2 would be evidence for congestion in the lungs. 3 Q, And did you review the chest X-ray 4 of **Mr.** Karr? 5 Α. I believe it is in here. 6 Do you mean the report? 7 *,* , Q., You didn't review the actual film 8 9 itself?, I didn't see the film. Α. 10 Ο. Did you review the radiologist's 11 report? 12 I Yes, I did. Α. 13 Q. Okay., And what did that reveal, 14 15 doctor? Basically normal. Α. 16 Q, And doctor, are you referring to 17 the chest X-ray of 5-2-88?, 18 A. I am,. 19 Q, And does the impression read PA an 20 lateral views of the chest show the heart and 21 22 mediastinal structures to be normal, no, active lung disease is identified? 23 24 Α. It does. Q, Would there be anything else that 25 CLEVELAND, OHIO (216)687-1161

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you would be looking for in that chest X-ray? 1 Α. No. 2 Q, Let's move on to the EKG. 3 Why is an EKG necessary in a cardiac clearance? 4 Well, that tells the electrical 5 Α. status of the heart muscle and would detect 6 enlargement of the heart and also would show 7 any significant scarring of the heart muscle. 8 Q. 9 Why is that important for a physician such as Dr. Schnell to know about a 10 11 patient like Mr. Karr preoperatively? Well, evidence of scarring of the 12 Α. heart muscle, of course, would increase the 13 risk of surgery for the patient. 14 Q, 15 Is there any other reason to get an EKG preoperatively, doctor? 16 A · · · Any other reason? 17 ο. Yes." 18 19 Α. Heart rhythm. ' Q, What would you want to know about 20 the heart rhythm? 21 Well; an abnormal heart rhythm, of 22 Α. ` course, may pose a problem to control of the 23 heart rate, and particularly under anesthesia 24 or in the immediate postoperative period. 25

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Q. You are getting just a little bit 1 2 ahead of me, doctor. 3 4 (Thereupon, Watts Deposition Exhibit **5** was mark'd for purposes 5 of identification,) 6 7 Doctor, was there an EKG done on 8 Q. Mr. Karr? 9 1.1.1 10 Α. There was. Okay.. And when was it done? Q. 11 12 Α. May 2. 0. And did you review the EKG strip o 13 Mr. Karr? 14 I did. Α. 15 16 Q. And is that marked as Exhibit Number 5? 17 It is. A ... 18 Okay. And doctor, are you going t Q., 19 give an interpretation of this EKG strip? 20 I agree with Dr. Schnell in which . A. 21 he pointed out that there is a low grade first 22 23 degree AV block that's in his handwriting. Τh printed report from the computer-read 24 25 electrocardiogram.also states the same thing,

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states left axis deviation and borderline low 1 voltage in frontal leads. 2 3 Ο, And is that consistent with Dr. Schnell's interpretation of abnormal because of 4 5 low grade first degree AV block? A. Yes. 6 7 8 degree block, AV block? AV block is the increase in the Α. 9 time it takes for the electrical current to go 10 11 from the atria to the ventricles, and normally that's less than point **two** seconds. 12 In his case it was point 216 seconds. 13 14 Q, And what caused that in Mr. Karr? Hard to tell. It could have been 15 Α. 16 an acute event which was possibly of chemical imbalance or neurologic stimulation; for 17 18 instance, the vagus nerve may have been more active-and caused the prolongation, or it may 19 20 be a chronic thing because of some scarring of the conduction tissue. 21 Q. And what type of chemistries would 22 cause this type of reading on an EKG? 23 It could be due to potassium 24 Α. 25 depletion or calcium depletion. He also was

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taking Calan, , which will affect the conduction ? 2 system of the heart. 3 So there are many causes for prolongation of the PR interval. 4 What effect does this have on the 5 Q. 6 heart? 7 Α. Basically none, because the heart 8 rate is unimpaired. It only takes a little longer for the electrical activity to go from 9 the atria to the ventricles, but each impulse 10 is conducted from top to bottom, and so the 11 heart rate is not impaired. 12 Q . And did this low grade first degree 13 14 AV block require any treatment in Mr. Karr? Α. 15 No. Q. Why not? 16 Well, ba ically my last answer 17 Α. provides an answer to this. It didn't change 18 his heart rate, and, so his, circulation was 19 supported just as yell whether there was a 20 21 slight prolongation in the conduction within 22 the heart or not. 2 1 The higher grades of block in which 23 there may be only half as many beats as there 24 are electrical stimuli, of course, could have 25

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an effect on the circulation, but in this case 1 the effect on the circulation would really be 2 minimal. 3 Ο. Does this cause any increased 4 stress on the heart? 5 Α' No. 6 Q, And would this be important for yo 7 to know as a physician before Mr. Karr went to 8 surgery? 9 Α. I wouldn't **say** it would be 10 important since the abnormality is so minimal. 11 And was this EKG which showed a lo Ο, 12 13 grade first degree AV block a contraindication to Mr. Karr's surgery on May 3 of 1988? 14 Α. No. 15 Ο, And why is that? 16 Well, for the above reasons, that 17 Α'. 18 it didn't impose any restriction on the circulation or on the function of the heart. 19 Q', And would this finding on the EKG 20 of first degree AV block require any special 21 consideration in the postoperative period? 22 'A. 23 No. Q., 24 Why not? He would be monitored in the Α. 25

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recovery room, and if there were a progression 1 2 of the impairment of conduction, that would be recognized and appropriately treated. 3 Q . And when you **say** monitored in the Δ recovery room, what do you mean? . 5 6 ,,, A., C I would presume he would be on telemetry at least during the time in the 7 recovery room. 8 And doctor, for purposes of the а. 9 recgrd, telemetry is a heart monitor? 10 11 A. Yes. 12 Q, And what things , would you be looking, for postoperatively in a patient, in 13 Mr. Karr, with this first degree AV block? 14 Progression of the block so that Α. 15 not all of the impulses, reach the .ventricles 316 and, therefore, the heart rate was depressed. 17 Also, the development of abnormal heart rhythms 18 would be watched for on the monitor. 19 Q, So that would manifest itself -- a 20 progression of this. AV block would manifest 21 itself in a decrease in the heart rate? 22 Yes.,, 23 Α. Q. And also some arrhythmias?. 24 25 Yes. Α. .

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MR. SCOTT: I don't think doctor is 1 2 saying -- or perhaps he is --.that those necessarily would follow or both of them would 3 be. 4 5 THE WITNESS: No. MS. ILER: I understand. 6 Α. That's what you are doing the 7 monitoring for. But this in itself would not 8 predict that that was a likely possibility. 9 10 Q, I understand that. Is there any other considerations that you would be looking 11 12 for in the postoperative period in Mr. Karr with his first degree AV block? 13 Α. No. 14 Doctor, what was the condition of Q, 15 16 Mr. Karr's -- I'm sorry, let me strike that. En performing a cardiac clearance, 17 what types of ,blood chemistries would you want 18 to review?. 19 Certainly the blood count and the 20 Α. electrolytes and the glucose, BUN and. ' 21 creatinine as , reflections of kidney function. 2.2 23 Q, And what would you be looking for in a blood count, doctor? 24 To make sure he was not anemic. 25 Α.

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, 1 Q., Okay. And why would that be important to know? 2 . Well, with the increased demand fo Α. 3 oxygen in the circulation, a preoperative stat 4 of anemia, of course, would.pose a greater ris 5 because obviously he would be having some bloo 6 loss with the surgery, 7 Q. And so that would put an increased 8 demand on his heart? 9 An increased demand on his heart 10 Α. and circulation to provide the requisite amoun 11 12 of oxygen to the circulation, 0., And what was Mr. Karr's blood coun 13 preoperatively? 14 The hemoglobin was 13.8 and 15 Α. hematocrit was 39.6 and the red blood count wa 16 4.38 million. 17 Q . Let's take the hemoglobin. Doctor 18 what is hemoglobin? 19 Hemoglobin is a protein which 20 Α. 21 resides in the red blood cell, and its functio is to pick up oxygen in the lungs and then 22 23 distribute oxygen as it goes through the 24 circulation, 1. * I And why is that important to 25 Q.

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measure in Mr. Karr preoperatively? 1 2 Α. Well, because that's the oxygen carrying power of the blood. 3 Q, And why is that important in Mr. 4 Karr preoperatively? 5 Α. Because he will have a drop in 6 hemoglobin and he will have an increased 7 requirement for 'oxygen distribution in the 8 system because of the operative and ... 9 postoperative state .-10 Q, And what causes that increased 11 oxygen demand in the operative and 12 postoperative state? 13 The trauma that's engendered by the 14 Α. surgery. 15 And doctor, is a hemoglobin of 13 16 Q, 17 normal in Mr. Karr? Α. The laboratory value that's shown 18 in the laboratory report from Deaconess 19 Hospital shows that they consider the normal 20 range to be **14** to 18 on the hemoglobin. 21 His 15 13.8, so they flagged it with an L-indicating 22 low. 23 24 Q, And do you agree with that, doctor? 1 7 I agree that it is outside that 25 Α. .EVELAND, OHIO (216) 687-1161 Cefaratti, Rennillo

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1 13.8 is so close to normal that I range, really wouldn't consider it a significant 2 abnormality. 3 4 Q, Would that be something that-you . You would want to watch it even if Α. 7 it were normal, Q, And why is that? 8 Well, for the reason I stated 9 , **A** . before. That's the oxygen carrying power of 10 the blood, and we know that there will be a 11 greater demand for oxygen in the postoperative 12 13 state. And what would you be watching in Q, 14 that value, doctor? 15 16 Its absolute value,... Α. 17 Q, . Would you be watching whether it went up, or went, down or stayed the same? 18 19 We would anticipate it .goingdown. Α. ' 20 Q. Why is that?, , . . . There is blood loss with surgery. 21 Α. Q. . .Okay. And how would you monitor 22 hemoglobin postoperatively, doctor? , 2.3 Aray, By doing blood counts. 24 25 Q, And doctor, uhat is hematocrit?

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Hematocrit is the volume of the 1 Α. blood which is composed of cells. If we look 2 at the blood from the standpoint of being soli 3 or liquid, the red and white blood cells are 4 suspended in plasma, and when they are 5 centrifuged we have a clear top and then the 6 7 cells are packed at the bottom of the tube, and so all we do **is** after centrifugation we look a 8 9 the tubes to see how high up the cellular 10 component will stack, and in this case it was 39.6, which means 39.6 percent of the blood in 11 12 that centrifuge tube was composed of cells, O. ... Is that, a normal hematocrit . for Mr 13 , Karr? 14 Α. Well, for Mr. Karr it may be. 15 The range they give is 41 to 54. So again, it is 16 flagged with an L indicating that it is 17 slightly below the laboratory normal, 18 19 ĝ, And you agree with that? Α.... Xes. . . 20 MR. SCOTT: He also just testified 21 that.it may be normal for Mr. Karr. 22 Q. I understand that; Doctor, and 23 what was -- you said that Mr. Karr/s red blood 24 cell count was 4.38? 25

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1 Α. Yes. 2 Q. And is that normal? 3 A. . . Yes and the second seco 4 Q. And doctor, you stated that you 5 also would want to in a cardiac clearance look at the electrolytes in the blood?. 6 A. Yes. 7 1:57 5 Q . , Were those normal for Mr. Karr? 8 Strike that. 9 Which electrolytes would you want 10 to review in a cardiac clearance for Mr. Rarr? 11 A. . . Sodium, potassium, chloride, and . 12 carbon dioxide combining power. and and 13 Q. And were those reviewed in Mr. Karr 14 preoperatively? 15 A. They were. 16 754 Q. And what were they? 17 18 Α. The sodium was 129, the potassium 19 was 4.1, the chloride was 93, and the CO2 was 29. 20 1.1 21 Q. ... And in your opinion, are those values normal? 22 23 Α. The potassium is normal. The 24 sodium is lower than the .normal range of 136 to 144. The chloride is just below the normal 25

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range of being 95 to 103'. And the CO2 is just 1 above the normal range, 29, with a normal range 2 being 23 to 28. 3 .Q. And did those blood chemistries 4 require any treatment preoperatively? 5 6 Α. No. 7 Q, And doctor, you stated that you also want to look at the BUN and the creatinin 8 preoperatively in Mr. Karr? 9 a. Yes. 10 And why would you want to do that? Q, 11 To detect any impairment of kidney Α. 12 13 function. Q. And what was Mr. Karr's BUN 14 preoperatively? 15 Α. It was 30. I don't see a 16 creatinine. The BUN was 30. 17 Q, And **is** that normal? 1% That's above the normal Α. No. 19 20 Q. And what would that tell you as a 21 physician? 22 t i a servez Α. That he had had some modest degree 23 of renal impairment. 24 Q, What would you attribute that to in 25 CLEVELAND, OHIO (216)687-1161 Cefaratti, Rennillo

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Mr. Karr? 1 Α. I think his age, hypertension, and 2 diabetes. 3 Q, And **in your** opinion, did that value 4 need to. be treated with any medical treatment? 5 Α. No. 6 Q, And why not? 7 Well, first of all, it is a very 8 Α. slight abnormality. Second of all, he would be 9 receiving intravenous fluids postoperatively, 10 so that renal impairment would probably not 11 worsen to a significant degree. 12 0, Doctor, is there anything else you 13 would want to review in a cardiac clearance? 14 We have just gone over the lab values you would 15 want to review. Is there anything else?... 16 17 18 / 1 Q / 1 And which specific liver function 19 tests would you want to look at? 20 Well, I think we would look at the 21 Α. protein, we would look at the liver enzymes, 22 alkaline phosphatase, Bilirubin, LDH, SGOT, 23 PTP. 24 Q, Were those reviewed in Mr. Karr 25

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preoperatively? 1

Ο,

Yes, they were. Α.

And were they found to be normal? Yes. The only abnormality is a Α. 4 very alight one, the ratio between the albumin 5 and the globulin showed that the globulin was **a** 6 little higher than ordinarily seen, so the A/G 7 ratio shows a little lower than usual. 8 But all the other liver tests were normal. 9

Q . Does that complete, doctor, all the 10 areas that you would want to review in a 11 cardiac clearance on a patient such as Mr. 12 13 Karr?

14

2

3

Α. Yes.

15 Q, Doctor, I'd Like to direct your attention to the cardiac clearance, second 16 17 page. Under recommendations it says, despite the multiplicity of medical problems and 18 despite the long list of medications used to 19 20 control the same, patient is generally in reasonably stable condition in relation to the 21 22 planned surgery. His diabetes, hypertension, and other medical problems will be managed 23 postoperatively. 24

25

Do you see that?



1 A. I Ida.

2 Q. And what did you understand that to 3 mean?

A. Well, I understand it to mean that
the patient is cleared for surgery and will be
followed postoperatively in the light of the
pre-existing medical abnormalities.

8 . Q. And who is going to follow him9 postoperatively?

A. Dr. Schnell was taking on that,
role, and of course he was working with Dr.
Tank. Dr. Tank would be responsible for the
surgical aspects and Dr. Schnell would be
responsible for the medical aspects of the
postoperative period.

16 Q. Doctor, what specifically is Dr. 17 Schnell responsible for in the postoperative 18 period in the treatment af Mr. Karr?

19 A. Well, I think he is responsible for
20 the things that he is responsible for
21 preoperatively, and that is the diabetes and
22 hyperfension most importantly.

23 Q. And doctor, what do you understand
24 it to mean, "and other medical problems will be
25 managed postoperatively," as written by Dr.

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1 Schnell?

Well, I think he means any problem 2 Α. that's not primarily of surgical origin. 3 Q, How do we determine which problems 4 are surgical and which problems are medical? 5 Well, it has to be the evaluation 6 Α. 7 of the individual problem. The surgeon usually is in charge of the fluid and transfusion 8 aspects of the postoperative care. 9 Q, And was that -- I'm sorry? 10 Whereas the internist is 11 Α. responsible for the diabetic and hypertensive 12 13 aspects of the postoperative care, and obviously any cardiac involvement in the 14 postoperative care would come under the 15 16 province of the internal medicine specialist rather than the surgeon. 17 Q, Okay. So in this particular case, 18 doctor, do you say that Dr. Tank was 19 responsible for the fluid management and blood 20 transfusion of Mr. Karr? Is that right? 21 Right. 22 Α. 23 Q, And why is that? 24 Α. Well, surgeons are supposed to in the postoperative period. 25 They have been

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1 involved in the blood loss, and so they are usually the ones who order transfusions. Thev 2 certainly are the ones who ordered the 3 postoperative fluids. And the only time the 4 internist would get involved is if he felt tha 5 there was mismanagement on the part of the 6 7 surgeon in terms of the postoperative fluid balance. 8 Q, And when does the internist 9 intervene in the fluid management or 10 transfusion of a patient postoperatively? 11 Well, it has to be an individual Α. 12 13 answer depending on the particular patient. Q, Doctor, what did the standard of 14 care require that Dr. Schnell do for Mr. Karr 15 preoperatively? 16 Preoperatively? 17 MR, SCOTT: 18 MS. ILER: Yes. MR. SCOTT: Are we back to the 19 medical clearance? 20 MS. ILER: I don't know. 21 Whatever the doctor seems to think that Dr. Schnell was 22 required to do. 23 I would think that would be the 24 Α. medical clearance that we have been talking 25

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about. 1 Q. So the standard of care required 2 that Dr. Schnell perform a medical clearance on 3 Mr. Karr preoperatively? 4 5 Α. Yes. Q, And to determine what in Mr. Karr? 6 7 Α. How safe he was for surgery. 8 Q. Okay. And did you review the medical clearance that Dr. Schnell performed on 9 Mr. Tank -- I'm sorry, Mr. Karr? 10 Α. Yes. 11 Q. And did you think that that met the 12 13 14 Α. Yes. 15 Q. And why did it meet the standard of 16 17 care? Α. Because he had done a very thorough 18 evaluation of the past history, the present 19 complaints, the physical findings, and the 20 laboratory findings and had then listed the 21 diagnoses which are indications of possible 22 postoperative complications, and indicated that 23 24 he would continue to follow the patient from a medical standpoint. 25

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(Discussion off the record.) 1 (Recess taken.) 2 (Record read.) 3 Q, And doctor, when you say medical 4 5 standpoint, what do you mean? MR. SCOTT: Objection. That 6 question was just asked and answered, but go 7 8 ahead, doctor. Q., You say that Dr. Schnell was 9 required to follow Mr. Karr medically 10 postoperatively. Is that right? 11 12 Α. Yes. Q. 13 And what do you mean by follow him 14 medically? To evaluate the medical conditions 15 Α. in other words, the nonsurgical conditions, an 16 17 to respond to their abnormalities with appropriate therapy. 18 Q, And you stated those to be the 19 diabetes, his hypertension, and any cardiac 20 problems --21 22 Α. Yes. Q. __ he may have? 23 Doctor, is it your opinion that on 24 25 May 3 of 1988 Mr. Karr was stable for the

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lumbar laminectomy? 1 2 Α. Yes. Q. Doctor, when you reviewed the 3 records did you see that Mr. Karr tolerated **the** 4 5 lumbar laminectomy surgery -- strike that. Did you find from review of the records that Mr. 6 Karr tolerated the surgery that was performed 7 8 on him? Yes. Α. 9 Ο. You didn't find he had any problems 10 in the operating room? 11 Α. No. 12 13 Doctor, what was the standard of Ο. care that was required of Dr. Schnell inasfar 14 as Mr. Karr postoperatively? 15 To evaluate and treat the 16 Α. abnormalities of the diabetes, whatever 17 abnormalities of hypertension might occur, and 18 any cardiac abnormalities. 19 Q, Did Dr. Schnell have any 20 responsibilities to Mr. Karr during the 21 surgery? 22 Α. No. 23 24 Q. And why is that? During surgery the surgeon, of 25 Α. CLEVELAND, OHIO (216) 687-1161 Cefaratti, Rennillo

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course, is in charge, and he's helped by the 1 anesthesiologist, who is watching the vital 2 signs as well as giving the anesthesia. 3 Q. Doctor, do you agree that both Dr. 4 Schnell and Dr. Tank were both treating Mr. 5 Rarr while he was at Deaconess Hospital? 6 7 Α. Yes. Q, Doctor, how much blood volume does 8 Mr. Karr have, a patient like Mr. Karr? 9 Well, he probably has five percent 10 Α. of his body weight in the form of blood 11 itself. And he weighed 180 or something like 12 that, I saw it here somewhere --13 Q, And doctor, do physicians talk in 14 terms of pints of circulating blood or volume 15 16 or --17 Α. No. Q, __ cc's? 18 Α. We use cc's, 19 Q. And how many cc's? 20 I figured it out a couple of days Α. 21 I think it was 4,300 cc's would be in th 22 aqo. form of blood. 23 Q, And that would be Mr. Karr's 24 circulating blood volume? 25

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1 Α. Yes. Q. 4,300 cc's? 2 Α. Yes. 3 Q, How did you figure that out? 4 5 Α. Five percent of his body weight. Q, Doctor, I'd like to review with you 6 what you understand Mr. Karr's postoperative 7 condition to be. I am going to take some 8 chunks of time. Okay? 9 What was Mr. Karr's postoperative 10 condition from the time he got out of surgery 11 and was in the recovery room? And I have 12 looked at the chart, and that is on 5-3-88 from 13 about 1:00 p.m. to about 3:00 p.m. 14 Nancy, that might be MR. SCOTT: 15 one of the records that I asked you about at 16 the last deposition, the recovery room record, 17 and I am not sure if I have it in my binder. 18 Do you have a copy? 19 Q . Yes. Well, I'm just interested in 20 what the doctor understood his condition to 21 22 be. Α. I believe the nurses' notes give u: 23 some of the information here, and we now are o 24 May 3 at 1:05 p.m. in which he has returned 25

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from the operation and is in the recovery 1 And then at 3:40 p.m. he returned to 7N, 2 area. I presume that's 7 North. 3 So that would suggest that his 4 postoperative condition must have been stable, 5 because he was moved up to the area where he 6 had come from within three hours after the 7 operation. And the nurses' notes indicate that 8 he seemed to be in satisfactory condition. 9 Q, And what do you take that to mean, 10 doctor, when you say the nurses say he was in 11 satisfactory condition? 12 Α. Well, for instance, his vital 13 signs, temperature is 36.1, his pulse rate is 14 88, his respiratory rate is 20, and his blood 15 pressure is 128 over 80. One could hardly ask 16 for better numbers than those. 17 Q. And do you know what the condition 18 of his diabetes was from on May 3 of 1988 from 19 1:00 p.m. to 3:00 p.m. when he was in the 20 recovery room? 21 At 2:44 p.m. his -- I have the 22 Α. wrong day. Apparently when he just came from 23 the operating room at 1322 on the 24-hour 24 clock, 1:22, his blood sugar was was 329. 25

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Q. Is that high, doctor? 1 Yes. 2 Α. Q, Did that require some treatment by 3 Dr. Schnell? 4 I'm not picking it up there. 5 Α. Maybe on the orders. 6 We have Humulin R, 20 units 7 Here. 8 subcutaneous now, given at 3:10 p.m. And then also Dr. Schnell asked that a blood sugar at 9 8:00 p.m. be performed and that he be called 10 with the result. 11 So that fasting blood sugar did Q, 12 require some treatment by Dr. Schnell; is that 13 right? 14 Yes. 15 Α. Q. And treatment was given; is that 16 right? 17 18 Α. That's right. Q, Doctor, when you stated that Okay. 19 the standard of care required Dr. Schnell to 20 monitor Mr. Karr's medical condition, that 21 being, as you stated it, his diabetes and his 22 hypertension postoperatively, how would Dr. 23 Schnell do that? 24 Most importantly by the nurses' 25 Α. CLEVELAND, OHIO (216) 687-1 161 Cefaratti, Rennillo

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1	observations and reporting to him the		
2	information he requested or anything that they		
3	saw that was abnormal and felt that he should		
4	be notified.		
5	Q. Let's take the diabetes. How was		
6	Dr. Schnell to monitor Mr. Karr's diabetes		
7	postoperatively?		
8	A. By blood sugars.		
9	Q. How often should those be		
10	performed?		
11	A. It varies from day to day, As you		
12	know, he got a blood sugar right after the		
13	operation and then again at 8:00 that evening,		
14	which is about seven or eight hours after the		
15	operation.		
16	Q. And how often should Dr. Schnell b		
17	looking at these blood sugars on Mr. Karr		
18	postoperatively?		
19	A. Well, as I said before, it varies		
20	with the circumstances, once or twice or three		
21	times a day. It depends on the circumstances.		
22	Q. And are there any other things tha		
23	Dr. Schnell is required to do in order to		
24	monitor Mr. Karr's diabetes?		
25	A. No.		

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Ο, How is Dr. Schnell to be monitoring 1 Mr. Karr's hypertensive condition 2 3 postoperatively? By the vital signs provided by the 4 Α. nurses. 5 Ο. What particular vital signs would 6 Dr. Schnell be looking at? 7 Blood pressure. 8 Α. Q. And what would he be looking for in 9 a blood pressure? 10 A blood pressure over 160 or below Α. 11 12 a hundred.; Q, What would that tell Dr. Schnell? 13 That his blood pressure over 160 14 Α. was perhaps inappropriate and should be treated 15 with antihypertensive medication, and if it 16 were below a hundred that the consideration of 17 a vasoactive compound should be considered. 18 Anything else that Dr. Schnell was 19 Q. required to monitor as far as Mr. Karr's 20 hypertensive condition? 21 Α. No. 22 Q. What was Dr. Schnell required to 23 monitor as far as Mr. Karr's cardiac condition 24 postoperatively? 25

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1 Α. Heart rhythm as reflected, first of all, by the telemetry in the recovery area, and 2 any abnormalities in heart rate detected by the 3 nurses in their examinations after the patient 4 went off telemetry. Also, of course, the 5 presence of cardiac symptoms or the presence of 6 7 pulmonary congestion. Q., Would Dr. Schnell be required to 8 tell the nurses to monitor specifics as far as 9 Mr. Karr's cardiac condition? 10 No. 11 Α. Q. What would they be measuring? 12 Well, as I said before, they would 13 Α. be measuring blood pressure and heart rate. 14 The nurses talk to **the** patients, so they may 15 elicit symptoms, examine the patients, so they 16 would detect evidence of congestion. 17 Doctor, when you say heart rate, d Q. 18 you mean pulse? 19 20 Α. Yes. Q. And what is the normal range of a 21 pulse in a patient such as Mr. Karr? 22 Well, we usually expect it to be 23 Α. faster than normal because of the operative 24 intervention, so a heart rate up to 120 would 25

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not be unusual. 1 2 Q. For how long? 3 Α. Several days. Q, And why would the surgery cause an 4 increased heart rate? 5 Blood loss. 6 Α. ο. How does blood loss cause an 7 increased heart rate? 8 9 Well, if one has a reduced oxygen Α. carrying capacity of the heart, one must pump 10 more blood to supply the same oxygen 11 requirements. 12 Q. And what cardiac symptoms should 13 Dr. Schnell be looking for in Mr. Karr 14 postoperatively? 15 Angina and shortness of breath. 16 Α. Q. Anything else? 17 18 Α. No. Q, And should Mr. Karr or Dr. Schnell 19 be looking for any changes in his EKG? 20 21 Α. Yes. Dr. Watts, what is your opinion as Q, 22 to the amount of blood that Mr. Karr lost 23 during the surgery? 24 According to the record, I think it 25 Α.

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added up to a total of 880 cc's, 1 Q. And that is over what period of 2 time? 3 Α. I think 650 was the estimate by the 4 operating surgeon at the operation, and I think 5 he had 230 or something like that that was 6 collected by drainage during the recovery 7 period. 8 0. And do you think that reflects his, 9 total blood loss, the blood loss in Mr. Karr, 10 the 880 cc/s? 11 12 Α. No. MR, SCOTT: Objection. 13 No. 14 Α. 15 16 17 think surgeons tend to underestimate the amount 18 of blood loss. That is not their primary focus 19 20 21 22 d 23 24 the body. 25 CLEVELAND, OHIO (216)687-1161 Cefaratti, Rennillo

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1 Q', And how do you as an internal medicine doctor monitor that blood loss 2 3 postoperatively? MR. SCOTT: Objection. 4 Well, the most obvious way is to do 5 Α. a blood count. б Q. 7 And the blood count, what 8 particular values are you looking for in the blood count? 9 10 Α. Red blood count, hemoglobin, and hematocrit. 11 Q. Doctor, what is ventricular 12 quadrigeminy? 13 Α. That is an irregular beat of 14 ventricular origin every fourth beat. 15 Ο, And what causes that? 16 17 Α. Cardiac irritability. Q. What causes cardiac irritability? 18 Α. Well, it could be caused by age 19 alone, it could be caused by a great many 20 21 factors and quadrigeminy is not an unusual rhythm in ventricular arrhythmias are not 22 They are age related. As people ge 23 uncommon. older they are much more likely to have that 24 sort of thing. 25

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1 Mr. Karr experience ventricular quadrigeminy? 2 Why don't you --3 MR. SCOTT: 5 MR, SCOTT: Do you have it, Nancy? 6 7 Oh, no. This is Α. Here we are. 9 Here we are. 2:25 p.m. on May 3, 10 he has one ventricular premature beat and he 11 thought was quadrigeminy, but Dr. Schnell 12 didn't agree. 13 15 Α. T do. So Mr. Karr did not have Q. 16 ventricular quadrigeminy, in your opinion? 17 What he has in this rhythm 18 Α. No. strip is one ventricular premature beat. 19 Q. Did that require any treatment by 20 Dr. Schnell? 21 Q, Why not? 23 24 First of all, it is very benign and Α. normal. Second of all, unfortunately our 25

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medications sometimes do harm instead of good, 1 but nothing needed to be done in the presence 2 3 of one ventricular premature beat. Q. 4 Doctor, what was Mr. Karr's 5 6 7 1 8 9 1. at 3:40 in the afternoon he went up to 7N, and he looks pretty good. 11 Q. Well, doctor, when you say he looks pretty good, what are you looking at in order 13 to determine whether he's looking pretty good? 14 I'm looking at everything. Α. 15 Q. As an internal medicine doctor, 16 what should Dr. Schnell have been looking for 17 in that period of time as far as Mr. Karr's 18 condition? 19 Well, I think I already answered 20 Α. that a number of times, but obviously the vital 21 signs, how the patient felt, how he sounded on 2.2 examination, and of course any chemical 23 abnormalities; most importantly, of course, the 24 blood sugar. 25

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Q. When you say it is important to 1 assess the patient and how he felt, what do you 2 What are you looking for under that mean? 3 particular examination? 4 Well, any symptoms that you would 5 Α. not anticipate being appropriate. Obviously he 6 7 chest pain, shortness of breath, those would 8 not be appropriate postoperative symptoms. 9 Q., So it is your opinion that on 10 5-3-88 from 3:00 to midnight that he was doing 11 well? 12 13 Α. Yes. Q. So you are saying that his vital 14 signs are stable. Do you know what his fasting 15 blood sugars were at that time? 16 Α. At 2008, which is 8:00 in the 17 evening, his fasting glucose -- actually 18 nonfasting by then -- is 311. 19 20 Q. And did that require treatment by Dr. Schnell? 21 Doctor, I am not asking you what 22 the treatment was, I'm saying did it require 23 treatment? 24 Α. 25 I'm sorry.

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Q. That's all right. 1 2 Α. I was one question ahead of you. Yes. 3 Q, What kind of treatment did 4 Okay. it require? 5 Α. It required insulin. 6 Q. 7 Okay. Doctor, I'd like to talk about Mr. Karr's condition on 5-4-88, from 8 12:00 midnight to 8:00 a.m. What was Mr. 9 Karr's condition during that time? 10 12:00 midnight through when. 11 Α. Q. 8:00 a.m. 12 MR. SCOTT: What was his 13 condition? 14 Apparently it was satisfactory. 15 Α. Q. And what do you base that on? 16 17 A. Careful reading of the nurses' notes beginning at 2:10 a.m. on Thursday, May 18 5, 1988, and continuing on to the next page 19 20 which is headed at 8:00 a.m. on May 5, 1988. What particular notations in the Q. 21 nurses' notes lead you to believe that Mr. Karl 22 23 was doing satisfactorily? Well, there is a note, 24 Α. unfortunately the punch has gone through the 25 CLEVELAND, OHIO (216) 687-1161

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time, but anyway, it was sometime between 2:10 1 and 7:47, and it says, has had a comfortable 2 night until now. Complaining of some 3 incisional discomfort, bilateral anterior thigh 4 5 pain, and analgesic given. I think that says, 6 no respiratory distress noted during the night no shortness of breath or respiratory 7 8 distress. That is at 8:00 a.m. 9 Q, And was there anything else that you looked at in determining Mr. Karr was doing 10 11 satisfactory during that time? Well, I looked at all of the rest 12 Α. of the notes. Those seem to be the 13 highlights. Maybe the graphic chart would hav 14 other information. 15 Were his pulse and his blood Ο, 16 pressure stable during that time? 17 The blood pressure was 130 18 Α. Yes. over 70 at midnight, and at 4:00 a.m. it is 19 charted at 140 over 90. And his heart rate at 20 midnight was 80, and then at 4:00 a.m. it is -21 I'm sorry, maybe it is 7:00 a.m. I guess it i 22 23 7:00 a.m. instead of 4:00, They have got 4 an 24 7. It depends on which part of the graphic yo Heart rate was charted at 95 at that 25 read.

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time. 1 2 And doctor, on May 4 of 1988, what Q. 3 was Mr. Karr's condition from 8:00 a.m. in the 4 morning to say 3:00 in the afternoon? 5 We're going back to May 4? Α. Well, I think we were on May 4 ο. 6 actually. We went from 12:00 midnight to 8:00 7 8 Now we are going from 8:00 a.m. to 3:00 a.m. in the afternoon. 9 I thought we were on May 5th. Α. 10 Ο. Well, I thought we were speaking of 11 May 4. Let's back up then. 12 13 Α. Yes. Was there a question to me May 5 or May 4? Not this one, but the prior 14 question. I thought you were just skipping a 15 day. 16 Q, 17 No. Let me ask the question again. What was Mr. Karr's condition from 18 midnight on --19 20 Α. May 3? Q. __ May 4? We are talking 2 1 22 postoperatively. Α. Okay. Q, I see what you mean, doctor. I'm saying midnight, so it is --25 CLEVELAND, OHIO (216) 687-1161 Cefaratti, Rennillo

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It is the end of the day of the 1 Α. operation, and now we are into the first 2 postoperative day. 3 4 Q. so --I was answering your question, I 5 Α. thought you were talking about May 4th to the 6 7 morning of May 5th. I thought you were skipping a day. 8 All right. Well, we weren't. Q. 9 Let's qo back. 10 Here we are on Wednesday, 11 Α. Okay. May 4. In fact, I stated the date when I gave 12 13 my answer. Here we are on Wednesday, May 4, 14The nurses' notes, 3:00 a.m., 15 1988. postoperative night. Alert, oriented, and 16 17 cooperative. Pulse 108, was 120 at 11:00 p.m. Patient very restless earlier. 18 Apparently at 7:15 a.m. they calle 19 Dr. Schnell. 20 Q. Why did they call Dr. Schnell? 21 Because his heart rate was up to 22 Α. 120. And Dr. Schnell said he would be in to 23 see the patient this morning. 2.4 25 And the patient stated he is

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having, quote, a little back pain now, unquote, 1 and he was given an analgesic for that. 2 Q. Doctor, on May 4 of 1988 was a 3 hematocrit and hemoglobin done on Mr. Rarr? 4 Yes. Α. 5 Q. And what were the values? 6 At 7:46 a.m. the hemoglobin is 8.8, 7 Α. and the hematocrit is 26. 8 Q, And were those lower than they wer 9 preoperatively? 10 Α. Yes. 11 Q. And did that hemoglobin and a 12 hematocrit of 8.8 and 26.0 require any 13 treatment by Dr. Schnell? 14 15 Α. No. Q. Why not? 16 Α. Well, first of all, it is the 17 primary responsibility of the surgeon to 18 transfuse the patient if he felt that it was 19 necessary. But in addition, the patient was 20 21 stable as far as his vital signs were concerned, so his sudden anemia, which 22 obviously was due to the surgery, didn't 23 seem to be imposing any significant burden on the 24 patient. 25

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Q, And what caused the drop of Mr. 1 Karr's hemoglobin and hematocrit 2 postoperatively? 3 Well, we know that he lost 880 4 Α. 5 measured cc's of blood plus the unmeasured blood loss in the tissue. 6 Q. So it was blood loss due to surgery 7 that caused his hematocrit and hemoglobin to 8 drop to the level of 8.8 and 26.0? 9 10 Α. Yes. 11 Q, And does that drop in hematocrit and hemoglobin have any effect on Mr. Karr's 12 heart? 13 14 15 given fluids at varying rates, but as I recall, 16 17 he was getting fluids during the period of time at 100 ml per hour, so he was having a 18 19 fluid replacement, but not with blood 20 replacement. 21 Q. 22 And how much fluid replacement did 23 he get? 24 On his intake/output sheet --Α. 25 MR. SCOTT: I don't have it in this CLEVELAND, OHIO (216)687-1161 Cefaratti, Rennillo

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binder. Do you have it, Nancy? I've got it in 1 my office. 2 Q. I want to know what the doctor knew 3 when he reviewed the case. 4 Did you review the input and 5 outtake document when you reviewed this case 6 and before you gave your opinions or wrote your 7 report of December 8 of 1991? 8 9 Α. Yes. And you found the IV -- and 10 Q. Okay. you don't remember what the IV rate was? 11 I don't remember the -- well, I 12 Α. know the rate was around 100 cc's an hour, but 13 if I can find the intake/output --14 MR. SCOTT: I don't have it in that 15 binder. 16 17 Oh, it isn't. Α. 18 Well, I am going to have to speak from memory of having reviewed this last 19 As I recall, I think he got over 6,000 20 night. cc's of fluid on May 3 and 4th. 21 Q. Was that sufficient to replace 22 his --23 24 Α. Oh, here we are. 25 Q, Is that the document that you

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1 reviewed?
2 A. Yes.
2 Q. Okay.
3 1
5
6
8 May 3 and 1,245 on May 4.
9 So he had 6,700 intake and about

12	period.	
13	Q,	And is that acceptable for a man
14	such as Mr.	Karr?
15	Α.	Excellent.
16		

19 that that would help him pump more blood around 20 the circulation. We know he has a reduced 21 oxygen carrying power because of the reduced 22 amount of hemoglobin, but if we can circulate

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maintain the oxygenation of the tissues. And

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normal hydration, as this would speak in that 1 direction, he would be able to maintain the 2 oxygen requirements of the circulation. 3 Q. And how do you determine whether 4 Mr. Karr is meeting his oxygen requirements? 5 Α. Well, if there is no problem, it 6 must be good news. If he's not having any 7 obvious symptoms, if his heart rate and blood 8 9 pressure are satisfactory and urine output is satisfactory, then one could logically assume 10 11 been beneficial for him. 12 Q, And is there a difference between 13 fluid volume and blood replacement? 14 15 16 17 replacement and blood replacement? 18 Yes. 19 Α. Q, What's the difference? 20 Well, fluid replacement does not 21 Α. have oxygen carrying capacity, only the red 22 blood cells can carry oxygen. 23 And what do you look to or what 24 Q, should Dr. Schnell be looking to in determining 25

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whether Mr. Karr is meeting his oxygen 1 requirements? 2 Objection. MR, SCOTT: 3 Respiratory rate and degree of 4 Α. comfort. 5 Q. What do you mean by degree of 6 comfort? 7 Well, if he were weak, if he were 8 Α. short of breath, if he had chest pain, those 9 would be indications that he didn't have enough 10 11 oxygen carrying capacity for his circulation and his circulatory needs. 12 Q. Would confusion be a symptom of 13 decreased oxygen carrying capacity? 14 Well, it could be, but in the Α. 15 postoperative state with a person who is 16 getting analgesics, I think we have to also 17 factor that into the situation. 18 How do you determine whether Q. 19 someone is being confused by their narcotics 20 that they are receiving or whether it is an 21 actual effect from a decreased oxygen carrying 22 capacity? 23 24 Α. Hard to tell, because obviously a postoperative patient is getting some kind of 25

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medications to affect mental function, and so I 1 think it would have to be withdrawal of all of 2 those medications in order to say that the 3 problem was circulatory, or if there were other/ 4 things which were circulatory, then that would 5 help to indicate that he had a reduction in the 6 7 -- a reduction to an unacceptable level of the oxygen carrying capacity of the heart, of the 8 9 10 11 12 receiving? 13 15 16 17 Well, I already answered it. Α. 18 Obviously shortness of breath, rapid 19 respiratory rate, feeling of extreme weakness, 20 angina. All of these things would indicate 21 lack of oxygen carrying capacity of the 23 circulation. But your question about the mental, of course, is more difficult to answer 24 25 because of the effects of the analgesics on

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mental function, which would not be relevant to 1 reduction in oxygen carrying capacity. 2 Do you have an opinion as to if Mr. 3 Q. Karr was ever confused during his postoperative 4 5 period? MR. BONEZZI: Objection. 6 MR, SCOTT: Yes, objection. 7 Doctor knows only from the records. 8 Q. Sure. When you reviewed the 9 records --10 To the extent he can MR. SCOTT: 11 know. 12 Q. Do you have an opinion as to 13 whether Mr. Karr had any confusion 14 postoperatively? 15 The only note which indicates that 16 Α. is Dr. Tank's note stating that the patient was 17 18 still inappropriate. I'm not sure what Dr. Tank's definition of inappropriate is, but in a 19 20 careful reading of the nurses' notes, I don't find any evidence that the patient was 21 22 confused. He was inappropriate in one way in 23 24 the immediate postoperative period in that he was a little more active than the nurse thought 25

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he should be. He was reaching for things and 1 he was over-using the spirometry equipment that' 2 had been given to him. But I don't find any --3 in fact, I find a number of occasions when the 4 nurses referred to him being oriented times 5 So in the opinion of the nurses, he was! three. 7 not having any mental impairment. And doctor, do you recall the time ο. 8 10 that the nurses thought he was inappropriate? 13 I think it was Dr. Tank. Α. No. 14 Q, Dr. Tank, yes. 15 I think that was -- let me look it Α. up in the progress notes. Well, on May 5, 16 postoperative day two, Dr. Tank has written 17 febrile, some wheezing, complains of low back 18 pain, no sciatica, still inappropriate. Ι 19 think that was the only note. 20 No. On May 4 Dr. Tank also says, 21 postoperative day one, inappropriate, confused, 22 hemoglobin 8.8, drains removed, so on and so 23 forth. 24 Q, Do you have an opinion as to what 25

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caused the confusion as noted by Dr. Tank in 1 Mr. Karr? 2 3 Α. I don't know what he means by 4 inappropriate. 5 Q, So you don't have an opinion? Α. No. 6 Q. Doctor, what would be the treatmen 7 for Mr. Karr's hematocrit and hemoglobin of 8. 8 and 26.0 on May 4? 9 MR. SCOTT: Objection. 10 MR, BONEZZI: Objection. 11 MR, SCOTT: It assumes that 12 treatment is required, but you may answer, 13 doctor. 14 MR, BONEZZI: Same objection. 15 Well, I wouldn't treat the numbers, 16 Α. since he seemed to be stable and to have 17 satisfactory oxygen capacity in the 18 circulation. There wouldn't be any need to 19 treat it. 20 And that was determined -- you Q, 21 determined that there was sufficient oxygen 22 capacity by his --23 By a lack of evidence that there 24 Α. wasn't. 25

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1 Q. In that you say shortness of breath, and what was the other criteria that 2 you used? 3 Α. If he developed angina, a rapid 4 5 heart rate, if he developed rapid respiratory 6 rate. In other words, if he had objective evidence for impaired oxygen carrying capacity 7 in the circulation, then the treatment would be 8 that of transfusion. 9 Ο, And you are talking about a blood 10 transfusion? 11 Yes, I am. 12 Α. Q. 13 And why would that be necessary given those circumstances? 14 Given those circumstances, the only 15 Α. way to treat impaired oxygen capacity would be 16 to give transfusion, which would increase his 17 oxygen capacity. 18 Q. Doctor, was it required that Dr. 19 Schnell follow Mr. Karr's hematocrit and 20 hemoglobin after that reading of 8.8 and 26.0? 21 Α. Well, I think it is more incumbent 22 23 on Dr. Tank, but obviously both physicians would be looking at the laboratory data. 25 Q. Okay. And what was the next

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hematocrit and hemoglobin that was done on Mr. 1 Karr? 2 MR. SCOTT: The next after the 8.8, 3 you mean? 4 Ο, Yes. 5 The next one is at 2100 on May 4, a."" R.M. 6 Α. 7 that is 9:00 a.m. 7.6 for hemoglobin, 23 for 8 hematocrit. And is that a decrease from the 9 Q, previous hematocrit and hemoglobin in Mr. Karr? 10 11 Α. Yes. 12 reading for hematocrit and hemoglobin? 13 Objection. 14 MR. SCOTT: Objection. 15 MR. BONEZZI: 16 Α. Yes, it is below normal. 17 а. Did that require treatment in Mr. 18 Karr? Α. Only if there is objective evidence 19 for impaired oxygen carrying capacity in the 20 21 body. Q. Doctor, do you believe that Mr. 22 Karr should have been transfused at any point 23 in time? 24 25 Α. No. CLEVELAND, OHIO (216) 687-1 161 Cefaratti. Rennillo & M AKRON, OHIO (216) 253-81 19 Court Reporters

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I take it? carrying capacity of the circulation. Q, As determined by what? Well, I think I answered that Α. before, but to recapitulate, if he developed signs or symptoms of a reduction in oxygen carrying capacity to the point of causing

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administered and it was agreed that that was
 appropriate.

Q. In patients like Mr. Karr, who has
a long-standing history of diabetes and
hypertension, are there any additional
considerations when looking at his hematocrit
and hemoglobin?

No, because I think that if he 8 Α. needed transfusion, and he might need 9 transfusion more than the person without the 10 past history that we just referred to, we would 11 12 still be guided by the same principle, that if there was evidence that he needed more oxygen 13 carrying capacity then the transfusion would be 14 15 considered and, if agreed, would be arranged.

16 Q. Why would a person such like Mr.
17 Karr have additional needs for transfusion, as
18 you stated -- .

MR, SCOTT: Objection. 19 20 MR. BONEZZI: Objection. Q. **...** as opposed to a regular or a 21 normal person, healthy person? 22 MR, BONEZZI: Objection. 23 24 MR. SCOTT: The doctor did not say this person had additional need. 25

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1 Q. Do you disagree with my question, doctor, the premise of my question? 2 Could we have it read back? 3 Α. Q, 4 I will rephrase it. Doctor, you testified that Mr. Karr 5 i because of his diabetes and his hypertension 6 may require a transfusion before a normal 7 8 healthy person. Was that your testimony? I believe so. 9 Α. 10 Q, And why is that? Because of the evident or possible 11 Α. impaired circulation, evident impaired 12 circulation to the left leg, for instance, the 13 past history of the carotid endarterectomies, 14 the presence of the heart catheterization of 15 1981 showing that he did not have normal 16 coronary arteries, so that a reduction of 17 oxygen carrying capacity might induce symptoms 18 19 in those circulatory areas which would not occur if those arteries were normal. 20 21 Q, And what type of symptoms would they induce? 22 23 Α. Well, starting at the top, the 24 cerebral circulation may cause a weakness of one part of the body or possibly confusion, 25

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1 2 3 4 hemoglobin for Mr. Karr that was done at 9:00 5 p.m. that showed 7.6 and 23.0, what effect did 6 those values have on Mr. Karr? 7 None that I could find in the Α. 8 review of the chart. 9 Q. Would those values indicate a 10 11 decrease in oxygen to Mr. Karr's heart? MR. BONEZZI: Objection. 12 Not necessarily, because if he is Α. 13 able to pump blood faster with a reduced oxygen 14 15 carrying capacity it comes out even. It is delivering the hemoglobin at a more rapid 16 rate. 17 18 heart to beat faster to circulate less 19 hemoglobin and hematocrit? 20 Either faster or a larger volume Α. 21 with each stroke. It all comes out the same. 22 The two components are the volume per beat and 23 the number of beats,. 24 Q. Is that an increased stress on Mr. 25

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Karr's heart? 1 2 MR. SCOTT: Stress? Objection. you may answer, doctor. 3 Α. It would be more work for the Δ heart, because one of the determinants of 5 cardiac work is heart rate. 6 Q, Doctor, what was the next 7 8 hematocrit and hemoglobin that was done on Mr. Karr? Let me strike that and give you another 9 question. 10 Did that hematocrit and hemoglobin 11 12 13 No, it didn't. 14 Α. ο. Did it require him to contact Dr. 15 Tank? 16 Α. Yes. 17 Q. Why did it require him to contact 18 Dr. Tank? 19 He wanted to make sure that Dr. Α. 20 21 Tank knew what the blood count was in case Dr. Tank wanted to give a transfusion. 22 23 Q. Why did those values of 7.6 and 24 23.0 require Dr. Schnell to call Dr. Tank? 25 Α. I'm not sure it required. Ι CLEVELAND, OHIO (216) 687-1 161

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1 wanted the operating surgeon to be up to date 2 3 as to what the blood counts were in case the surgeon felt that in his opinion the 4 transfusion should be given. 5 Q, And did Dr. Schnell's -- was he 6 only required to tell Dr. Tank that? Was he 7 required to follow up with Dr. Tank concerning 8 those values? 9 No, I think he had discharged his 10 Α. total obligation in this area by asking the 11 nurse to notify Dr. Tank what the blood values 12 were, and it was from that time on it was up to 13 14 15 Q, Doctor, what was the next 16 hematocrit and hemoglobin that was done on --17 I'm sorry, what was the next hematocrit and 18 hemoglobin that was done on Mr. Karr? 19 That was on 5-5 at 8:05 a.m. 20 Α. Q, And what was the results of that 21 blood? 22 Hemoglobin was 7.5 and the 23 Α. hematocrit is 22.5. 24 Q. Is that a decrease from the value 25

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that was taken on May 4 of 1988?

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7 Q. Why not? 8 Α. Well, first of all, it is so minimally different. Second of all, there is 9 no evidence to show that the patient was 10 suffering any problems as far as the anemia wa 11 concerned. Third of all, the operating surgeo 12 was already aware of the previous value which 13 was almost exactly the same as this value. 14 Q, And what effect did that hematocri 15 and hemoglobin on 5-5-88 have on Mr. Karr? 16 17 Α. No discernable effect. Q. And doctor, what was the cause of 18 19 the drop in hemoglobin from 5-4 to 5-5 of 1988? 20 Objection. 21 MR. BOWEZZI: Ιt assumes there was **a** drop. 22 Well, I think it probably was due 23 Α. 24 to the positive fluid balance. Q, Doctor, what do you mean by 25 CLEVELAND, OHIO (216) 687-1161

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More fluid in than fluid out. 2 Α. Нe had, what did we figure, 6,600 or something 3 like that in and 2,000 out. So he had a 4 5 positive fluid balance of 4,000 cc's in a two-day period. 6 And so what effect does that have 7 ο. 8 on --Well, you have the same number of 9 Α. red blood cells but you put them in a larger 10 volume, so your content is going to go down. 11 12 You are measuring per unit, you are not 13 measuring all the red blood cells in the whole So obviously you've got more water in 14 body. there and less blood. 15 Q. 16 So it is your opinion that the decrease in the hematocrit and hemoglobin from 17 5-4-88 to 5-5-88 is due to the fluids that Mr. 18 Karr was receiving? 19 20 Α. Yes. On May 4 alone he got 4,000 cc's of fluid and put out 1,200, so he 21 obviously has a much larger fluid volume on th 22 morning of May 5 than he had on the morning of 23 May 4. 24 Q. And doctor, do those fluids that 25

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Mr. Karr was receiving, does that put a stress 1 2 on Mr. Karr's heart? 3 Α. No, I don't think so. I think if anything it would help, because since he had 4 decreased red blood cells, having an adequate 5 б fluid volume helps him maintain his circulation. I think it was important that he 7 have that fluid volume. 8 9 Q. For what reason? So that he could circulate the red Α. 10 blood cells at a more rapid rate in order to 11 meet his oxygen requirement demands. 12 Doctor, who ordered an EKG done on Q. 13 Mr. Karr --14 15 Α. Who --Q. 16 -- on 5-5? Who ordered it? 17 Α. Q, Yes. 18 I think Dr. Schnell did. Α. 19 Q, 20 Why did he do that? 21 I think he was doing it --Α. 22 MR. 'SCOTT: I am going to object since the record does not disclose, at least to 23 my knowledge, the reason for Dr. Schnell 24 ordering it. 25

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You may answer if you can. 1 I think it came under a heading of 2 Α. prudent postoperative laboratory evaluation an 3 was not ordered on the basis of any evidence 4 for a cardiac problem. 5 Q, And what is your basis for saying 6 that? 7 He hadn't had any symptoms 8 Α. referable to his heart recorded either by 9 nurses or by Dr. Schnell, and we know that 10 things can occur under anesthesia or in the 11 immediate postoperative period that may not be 12 symptomatic but nevertheless may show on the 13 electrocardiogram, so I think it was a prudent 14 observation to take the electrocardiogram 15 sometime in the postoperative period. 16 Q. And that would be Dr. Schnell's 17 18 responsibility to do; is that right? MR, SCOTT: That assumes that ther 19 20 is a duty to take any EHG. 21 Α. Yes. Q, Doctor, I am going to ask you a 22 question about the electrocardiogram. 23 24 25 (Thereupon, Watts Deposition CLEVELAND. OHIO (216) 687-1161

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Exhibit 6 was mark'd for purposes 1 of identification.) 2 3 Doctor, I'm handing you what has 4 Q. 5 which is an EKG that was done on May 5 of 6 **1988.** Doctor, what does that EKG show? 7 Well, the computer has read it as 8 Α. 9 showing normal sinus rhythm, rate of 98, low 10 voltage in frontal planes -- leads, anterolateral ST-T abnormalities, consistent 11 with ischemia and/or subendocardial 12 13 infarction. I presume that's what I N J period 14 means. 15 Abnormal electrocardiogram. Dr. Schnell has written, compared to 5-2-88 there 16 are new ST changes. 17 а. Okay. And doctor, consistent with 18 ischemia and/or subendocardial I N J, what does 19 that mean to you? 20 Well, I agree with the ischemia 21 Α. part, that there was evidence of impaired 22 circulation to the heart muscle as shown by 23 this electrocardiogram. 24 25 Q. And was that a change from the

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1 previous electrocardiogram that was done on May 2 of 1988? 2 Α. Yes. 3 Q. And doctor, what does ischemia 4 5 mean? Impaired circulation to the heart Α. 6 muscle. 7 Q. And doctor, do you know what the 8 9 cause of that was in Mr. Karr? I don't know what the cause was. 10 Α. Q, And doctor, did this EKG require 11 any treatment by Dr. Schnell? 12 MR. SCOTT: Objection. 13 Α. I think I would be treating more 14 15 than the electrocardiogram. The patient was asymptomatic, so I think that "" I am not sure 16 that this electrocardiogram in itself would 17 mandate treatment in an asymptomatic person. 18 What was required of Dr. Schnell Q. 19 inasfar as this electrocardiogram is concerned? 20 MR. SCOTT: I'm going to object to 21 that, since it assumes that Dr. Schnell saw the 22 EKG. 23 John, I think the doctor 24 MS. ILER: has reviewed the records and certainly can 25

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answer the question any way he sees fit. You 1 are suggesting the answer to him, and I just 2 3 can't have that. MR. SCOTT: Well, at the time it is 4 5 impossible to treat the patient, since you and I both know --6 7 MS. ILER: Now tell him. MR. SCOTT: Well --8 9 THE WITNESS: I know. MR. SCOTT: He knows he didn't see 10 the EKG. 11 12 MS. ILER: Make your objection and go on. 13 MR. SCOTT: How can you treat the 14 15 patient with an EKG when the patient is deceased? 16 Q, Now that Dr. Scott -- Mr. Scott has 17 given you or suggested the answer to you, do 18 19 you think you can come up with your own answer, doctor, as far as this? He can say whatever he 20 21 wants. 22 MR. SCOTT: You placed an erroneous 23 presumption. 24 MS. ILER: If the doctor has a problem with my question, he can tell me, 25 CLEVELAND, OHIO (216) 687-1161 Cefaratti, Rennillo

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I am not taking your deposition. 1 John. I am 2 taking the dostor's, Q, Now, doctor, can you answer my 3 question? 4 What was the question again? 5 Α. Q. It was -- I could rephrase it. 6 MR, SCOTT: It was how would Dr. 7 8 Schnell treat the patient? Q. What was required of a doctor when 9 he saw this EKG on Mr. Karr that was done on 10 May 5 of 1988? 11 12 Α. Well, in order to answer the question I have to have a better definition of 13 14 the clinical setting. As I understand the clinical setting, Dr. Schnell had ordered the 15 16 electrocardiogram not based on symptoms or 17 findings on examination but on the prudent rul that sometime in the postoperative period it 18 would be appropriate to get an 19 efectrocardiogram. 20 I think we all know, of course, 21 that Dr. Schnell ordered the electrocardiogram, 22 did not actually see the electrocardiogram 23 24 until the patient had already died several 25 hours after the electrocardiogram had been

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So I think I have to answer the 2 question really within the context of the 3 clinical events of Mr. Karr. And since the 4 patient was not having any symptoms, then ther 5 6 wouldn't be any treatment. 7 Q., So in your opinion, this EKG of Ma 5 of 1988 required no treatment by any 8 physician? 9 Objection. MR. BONEZZI: 10 MR. SCOTT: 'I don't believe the 11 doctor has testified to that. 12 Within the context of the clinical Α. 13 events of this case that I have already 14 sketched out. 15 You see, doctor, I don't understan 16 а. what you mean by within the clinical events of 17 this case. 18 I mean, I am asking you, did this 19 EKG, which is Exhibit Number 6, require any 20 treatment by a doctor? I mean, I think it is 21 very simple question, and I'd like an answer t 22 it. 23 Well, I have already given you one 24 Α. answer, and I have answered you in the context 25

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of the clinical presentation of Mr. Karr on --1 Ο. We'll do it this way. 2 3 Α. Okay. Q, What is the clinical context of Mr. 4 5 Karr? 6 Α. A man without any cardiac symptoms who has had a routine postoperative 7 electrocardiogram which shows what Exhibit 6 is 8 showing us. 9 Q. And based upon that, you think that 10 11 this required no treatment from a physician, this electrocardiogram? 12 13 Yes, based upon that clinical Α. setting. 14 Q, You see, doctor, it is confusing to 15 me when you use the words clinical setting, 16 because I don't understand what that means. 17 You see what I am saying? 18 19 I have tried to define it for you. Α. Q, 20 You say clinical setting. You are saying that based upon the fact that Mr. Karr 21 was postop from a lumbar laminectomy and you 22 say that he had no cardiac symptoms, in light 23 of this EKG he required no treatment? Is that 24 right? 25

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1 Α. Yes. And doctor, do you have an 2 ο. Okay. opinion as to what caused this abnormal EKG in 3 Mr. Karr? 4 I have a conjecture, but that's al 5 Α. it is. 6 7 Q, So you have no opinion based upon 8 reasanable medical certainty? 9 Α. No. 10 Q, Doctor, what is Imferon? Okav. Imferon is a form of iron that is 11 Α. injected intramuscularly to replete the iron 12 13 content of the body so that the anemia may be 14 more rapidly diminished by production of red blood cells. 15 Q, And why was it given in this case? 16 Because of his anemia. 17 Α. 18 Q. Okay. And doctor, what is anemia? Anemia is a decrease in the red 19 Α. 20 blood cells compared to the normal value. 21 Q, And was the Imferon successful in treating Mr. Karr's anemia? 22 23 Α. No. 24 Q. Why not? 25 Α. Well, Imferon takes quite a while IVELAND, OHIO (216) 687-1161

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to work, and I think he died within a short 1 time after he got the one injection of the 2 Imferon. 3 Q, How long does it take Imferon to 4 5 work, doctor? Oh, it would take at least a week. 6 Α. Q, Doctor, do you use Imferon in your 7 patients? 8 Almost never. I can't remember the Α. 9 last time I used Imferon. 10 Q, Why is that? 11 Well, usually iron can be taken Α. 12 orally more easily. Imferon is a rather 13 painful and somewhat expensive medication. 14 So if iron can be taken orally, I don't -- it wil 15 still do the same job. 16 And does that treat Mr. Karr's 0. 17 hematocrit and hemoglobin, the Imferon? 18 It would eventually, but not 19 Α. 20 immediately. Q, Doctor, do you have an opinion as 21 to what the cause of Mr. Karr's death was? 22 Α. I think it was ischemic heart 23 disease. 24 Q, Caused by what? 25

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1 Α. Coronary arteriosclerosis. Q. Caused by what? 2 The coronary arteriosclerosis? 3 Α. 4 Caused by age, hypertension, and diabetes and high cholesterol. 5 MS, ILER: Could you read me back 6 7 the doctor's answer? (Record read.) 8 Q. Doctor, was there any other cause 9 of death in Mr. Karr? 10 11 Α. No. Q. Was there any event that 12 precipitated his death? I mean, he had this 13 coronary arteriosclerotic heart disease before 14 the surgery, right? 15 Yes. 16 Α. Q. So what caused him to die from it 17 after the surgery? 18 19 I can't name a specific event that Α. caused him to die when he did die other than 20 21 the pre-existing coronary artery disease. Well, what caused the ischemic 22 Q. 23 changes in his heart? 24 Lack of **--** impaired circulation to Α. the heart muscle. 25

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1 Q, And doctor, what is that opinion based on? 2 Which opinion? 3 Α. Q, The cause of his death, you said it 4 was caused by coronary arteriosclerotic disease 5 and coronary ischemia; is that right? 6 Yes, myocardial ischemia. 7 Α. Q, Uh-huh. 8 9 Α. based on the autopsy It's 10 findings. 1. Q, What particular findings? 11 Well, the anatomical diagnoses by 12 а. the county coroner, Dr. Balraj, who has first 13 coronary arteriosclerotic heart disease with 14 severe stenosing calcific coronary 15 atherosclerosis, and so on and so forth. 16 Q. 17 And was there any treatment for Mr. 18 Karr's coronary arteriosclerotic heart disease? I really have to ask what the 19 Α. 20 context of the question is. If you are speaking of Hay 5, 1988, he received 21 resuscitative maneuvers, which are, by the way, 22 part of advanced cardiac life support that we 23 talked about earlier. Unfortunately they were 24 not successful in reversing the process. 25 So he

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1 received all of the treatment that would be mandated by his condition on May 5, 1988. 2 Q. And prior to May 5 of 1988; could 3 his coronary arteriosclerotic heart disease 4 have been treated? 5 It was being treated by control of Α. 6 hypertension, attempted control of diabetes, 7 and he was also taking a calcium channel 8 blocker in the form of Calan, and he was taking 9 a beta-blocker in the form of Inderal, **so** all 10 of these things are methods of treatment of 11 coronary disease which we use on a daily basis 12 on many people. 13 Q, Was there any other treatment for 14 his coronary artery disease? 15 A Possibility of nitroglycerin, 16 either sublingual or transcutaneous or oral, 17 but he wasn't having any anginal symptoms, so 18 treatment of a nonexisting symptom would not b 19 appropriate. 20 21 Ο. So you would only treat his 22 coronary arterial disease if he had any 23 symptoms? . . Yes. 24 A. Q, And what symptoms would those be? 25

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1 Α. Angina would be by far the most important one. 2 3 Q, Anything else? , Shortness of breath on exertion. 4 Α. Q. Anything else? 5 6 None. Α. Q , Did Mr. Karr's hematocrit and 7 8 hemoglobin have anything to do with his death? Α. I don't believe so. 9 Why not? 10 Q, 11 Well, because most of our patients Α. who have this kind of heart disease die 12 suddenly without the provocation of recent 13 operation and reduction in blood count, and I 14 view Mr, Karr's death as being coincidental an 15 not related in a causal way to the recent 16 laminectomy because, as I just said before, th 17 majority of people with this degree of ischemi 18 heart disease will die suddenly without warnin 19 and without a specific provocation. 20 Ο. And that is based upon your 21 experience with other patients? 22 It is. 23 Α. Q. Doctor, do you have an opinion as 24 to -- do you have any criticisms of any of the 25

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doctors' care in this case? 1 2 Α. No. Q., 3 Okay. Do you have any criticisms of any other nurses or hospital personnel or 4 anybody else's treatment of Mr. Karr in this 5 case? 6 7 Α. No. Q. Have we discussed all your opinion 8 that you are going to give in this case? 9 10 I believe so. Α. 0; Doctor, you stated that you 11 reviewed Dr. Singer's report. 12 13 .A. I did. Dr, Singer is plaintiffs' expert i 14 а. this case; is that right? 15 Α. It is. 16 Q, Do you have any criticisms of Dr. 17 Singer's report? 18 . . MR. BONEZZI: Objection to the for 19 of the question. 144 20 MR. SCOTT: Objection. And doctor 21 does not have the report in front of him. 22 Do you want him to go through a 23 line-by-line analysis of it? 24 Q. However he wants to answer the 25

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question is fine with me. 1 'Doctor, I am going to hand you Dr. 2 Singer's report, 1.1 1 . . . 3 MR. SCOTT: We spent about three 4 hours in which the testimony of this doctor ha 5 been in opposition to Dr. Singer's report. 6 Is 7 there some specific item you want to ask him about? 8 9 0. I just want an answer to my However he wants to answer it, 10 question. 11 that's fine. 12 MR. SCOTT: I object to the 13 question. Α. Well, I think on page three of Dr. 14 Singer's letter to you, under discussion, the 15 first paragraph, I certainly can't agree with 16 17 Dr. Singer when he attributes the drop -- he is referring to the depositions of Dr. Schnell and 18 Dr. Tank in which they felt that the patient's 19 20 drop in hemoglobin was strictly dilutional, For purposes of discussion I will 21 accept that, although I am sure Dr. Schnell and 22 23 Dr. Tank realize that when you lose **880** cc's of 24 blood that that's depletion as well as dilution. 25

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1 Q. -Doctor, let me stop you there for a I don't understand your use of the 2 second. terms, What is depletion versus dilution? 3 4 Α. Blood loss. Everybody, of course, recognized there was 880 cc's of attributable 5 blood loss plus whatever was lost in the tissue 6 in am unmeasured way. So there is depletion, 7 and then there, was the infusion of nonblood-8 containing fluid, and we have talked about tha 9 before, of course.. 10 So as Dr. Schnell and Dr. Tank in 11 their depositions said, that they thought at 12 13 least part of the -- I'm sure I am paraphrasing here -- at least part of the drop in hemoglobin 14 and hematocrit was because of the dilution as 15 well as the depletion, we know he had lost 16 blood. 17 Q., So it is your opinion that the 18 dilution or the decrease in hemoglobin and 19 hematocrit was due to two things; the dilution 20 of, that means he was getting --21 Nonblood fluids in. 22 Α. Q. 23 Right, in the form of IV fluids, and also it was. partially due to the fact that 24 he had lost blood --25

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1 Aror Yes. 2 Q, -- which was not replaced? Yes. Now, for instance, Dr. singe 3 Α. says something, I really can/t agree with this 4 and I am afraid the facts are not in his favor 5 "It was the opinion of both physicians that 6 this patient's drop in hemoglobin, manifested 7 postoperatively, was strictly dilutional." 8 I can't believe that they thought 9 it was strictly dilutional. When you lose 880 10 cc/s of measured blood, that's not dilution, 11 that's depletion. 12 Then he goes on to say, "I disagre 13 with this conclusion since the patient's BUN 14 did not drop but rather rose postoperatively, 15 and this would be more compatible with prerena 16 azotemia such as, gastrointestinal bleeding int 17 the GI tract." 18 Well, this is true, except he 19 didn't have it. 20 What would be the evidence of GI Q, 21 bleed in Mr. Karr? 22 Well, the autopsy should have show 23 Α. it. 24 · . . MR, BONEZZI: Can we take a short 25 CLEVELAND, OHIO (216) 687-1161 Cefaratti, Rennillo

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break? 1 1 1 1 (Discussion.off the record.) 2 (Mr. Bonezzi left the deposition.) 3 Q. And then he goes on to say 4 something else which I totally disagree with, 5 "Although no bleeding was found on postmortem 6 examination, this lack of finding of blood doe 7 not rule out GI blood loss previously." 8 Well, it is a ridiculous 9 10 statement. Q, And it is ridiculous because why, 11 in your opinion? 12 Well, we are dealing with a man in 13 Α. a three-day postoperative course who is being 14 very closely observed. Now, if he lost 15 whatever amount of blaod he would have to lose 16 to drop to this level, it should have come out 17 It should have come out by vomiting somewhere. 18 blood, it should have come out as black stools 19 or it should have been in the GI tract when he 20 died, and it should have been found at 21 autopsy, But you can't have it as a tenable 22 23 statement when you don't have any proof of it. So I think that that whole line of 24 reasoning is totally unsubstantiated. 25

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Q. So, doctor, you disagree with the Ι proposition that Mr. Karr's hematocrit and 2 hemoglobin, the drop was due to blood loss? 3 No, he hasn't testifie 4 MR. SCOTT: to that, Nancy. He has said both dilution and 5 6 depletion. Okay? 7 Q. Is your attorney correct when he testifies for you? 8 I'm not his attorney. 9 MR. SCOTT: 10 MS. ILER: You see, John, when you 11 don't interfere it would move a lot quicker. 12 MR. SCOTT: I just want you to listen to the doctor's answers. 13 14 MS. ILER: I am listening to the doctor's answers, and I am tired of listening 15 16 to yours, actually. MR. SCOTT: All right, go ahead. 17 Q. Do you want to answer my question, 18 please? E 9 A. Yes. My position, to restate it, 20 is that he had blood loss, and he had dilution 21 of his remaining blood. He had blood loss we 22 23 know about, we have gone over that before, of 24 course. He had dilution we know about, we hav gone over that before. On the day before deat 25

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1 he had a 4,000 cc fluid intake - yes, 4,000 at least 4,000 cc's, and he put out 1.20 2 cc's, 3 cc's. Well, obviously he's got a positive fluid balance, 1,200 from 4,000. 4 So that's dilution. So to me, tha 5 explains the decrease in blood count, and to 6 invoke a gastrointestinal blood loss and then 7 not be able to show it either inside the body 8 or outside the body, I think, is totally 9 10 unsubstantiated. Do you have any other criticisms o Q, 11 Dr. Singer's report? 12 MR. SCOTT: I'd like to object to 13 that question as well, since effectively the 14 last three hours of deposition testimony have 15 16 been critical of Dr. Singer's report. 17 Α. Yes. For instance, the next paragraph, the second sentence, "Obviously, Mr 18 Karr, who was 60 years of age, could not 19 20 tolerate a hemoglobin drop from 13.8 to 7.6 grams within 48 hours without manifesting some 21 cardiae irritability or neurologic deficit." 22 Well, he didn't have any 23 manifestations of cardiac irritability and he 24 25 didn't have any evidence of neurologic deficit

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so I quess he could tolerate it. 1 Q. Well, if in fact he did have 2 evidence of cardiac, instability and, --3 No. Irritability, 4 Α. 0. - irritability and neurological 5 symptoms, would that change your opinion as to 6 7 whether that was attributable to his hematocri and hemoglobin? 8 9 Α. We are assuming that he did have what he didn't have? 10 Q, That's right. 11 On the assumption he did have it, Α. 12 13 it wouldn't say it was due to that, as I testified before. Certainly the mental 14 function had a lot of other things affecting 15 it, and the same could be true for the cardiac 16 Then, of course, the next sentence 17 11 I certainly don't agree with, "It is my opinio 18 that the cause of this patient's demise was 19 directly related to the fact that he was no аo longer getting adequate perfusion to his major 21 organ systems, that is the heart, lungs, and 22 brain." 23 24 Well, I don't see any evidence tha he was getting inadequate circulation to any o 25

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1 those organs.

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*	chose organs.
2	Q. So I understand your testimony,
3	doctor, your testimony was that Mr. Karr was
4	getting adequate perfusion to all his organs?
5	A. Yes. And then he goes on to say,
6	"It is my opinion that this patient was highly
7	susceptible to an arrhythmia in view of his
8	history of diabetes, hypertension, and
9	cardiovascular disease. The drop in
10	hemoglobin, in my opinion, caused significant
11	hypoperfusion of the myocardium as well as the
12	brain, resulting in a cardiac event, most
13	likely an arrhythmia or an ischemic episode
14	leading to an arrhythmia."
15	Q. Can I stop you there, doctor?
16	A. Sure.
17	Q. Do you disagree with that?
18	A. Yes.
19	Q. Why?
20	A. Well, as I testified before, the
21	majority of people who have coronaries like Mr.
22	Karr die suddenly.
23	Q, Okay. I'm sorry.
24	\cdot A. But not in the setting of an
25	operation, anemia, or any other event which

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even in retrospect can be pointed to and to 1 say, well, that's why he died. 2 Ο, So doctor, you disagree with it 3 that Mr. Karr was hypovolemic? 4 5 Α. T do. Q, You think he was hypervolemic, 6 right? 7 Α. Well, he certainly wasn't hypo. 8 Ι am not sure about the hyper. He was not 9 10 significantly hypervolemic. But he certainly was not hypovolemic, because he had guite a 11 substantial fluid balance that was positive. 12 Q, Are you through with your 13 criticisms of Dr. Singer's report? 14 Well, I'm not through with his 15 Α. report, so I may not be through with the 16 criticisms. 17 Well, then he -- actually he is 18 restating on the top of page three, "It is my 19 opinion that the drop in hemoglobin was 20 detrimental to his cardiovascular system and 21 resulted, within reasonable medical certainty, 22 to a cardiac event such as an arrhythmia which 23 led to his immediate demise," 24 As I say, he is restating, and I 25

don't agree. 1 2 "This patient required supportive care postoperatively," 3 He did, and received it. 4 "It is my opinion that he did not 5 receive such supportive care when transfusion 6 was held back by both Dr. Tank and Dr. 7 Schnell." 8 I don't agree. 9 Q. You don't agree because you don't 10 11 believe that a transfusion was at any time required in Mr. Karr? 12 Right. Next paragraph, "In 13 Α. addition, this patient had a hypokalemia with 14 potassium of 3.2 which further made him 15 susceptible to the development of an 16 17 arrhythmia. The combination of hypoperfusion and hypoxia and hypokalemia, in my opinion, le 18 to the development of a terminal arrhythmia 19 and/or cardiac arrest in this patient," 20 Well, a potassium of 3.2 is below 21 normal, but only barely below normal, and 22 usually cannot be causative in any particular 23 event such as this. 24 And then the next paragraph, "It i 25

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my opinion that the death of this patient was 1 entirely preventable." 2 Obviously, I don/t agree. 3 "Either Dr. Schnell or Dr. Tank 4 could have transfused this patient so that 5 hypoperfusion and hypoxia of this patient's 6 vital organs would not have occurred. 7 То ascribe his drop in hemoglobin strictly to 8 dilutional factors, in my opinion, is absurd," 9 so on and so forth. 10 So I don't agree with any of those 11 statements. 12 Then the last full paragraph, 13 "Finally, it is my opinion that this patient's 14 confusional state postoperatively was related 15 to the drop in hemoglobin and his hypoperfusion 16 state." 17 I am not impressed that he was 18 confused. 19 **Furthermore, the complications 20 21 related to hypocalcemia" -- I think he means 22 hypokalemia == "and other electrolyte imbalance, in my opinion, contributed directly 23 24 to the development of the cardiac event, which in my opinion was a terminal arrhythmia." 25

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Well, I think it was a terminal 1 That is about the only thing we 2 arrhythmia. find ourselves in agreement. Otherwise, I find 3 considerable disagreement with your plaintiff' 4 expert. 5 Q, Doctor, does decrease in oxygen to 6 the heart cause cardiac arrhythmia? 7 8 Α. It may. Q. How does it do that? 9 Making the heart muscle more 10 Α. irritable. 11 Q, Doctor, do you have an opinion as 12 to why Mr. Karr was given oxygen? 13 14 Α. Well, that is a standard procedure postoperatively for a variety of reasons. 15 Because of postoperative pain the patient may 16 not be breathing as deeply as he should, so th 17 oxygen makes him more comfortable and also 18 raises the oxygen content in the blood. 19 Q. Do you have an opinion as to why 20 Mr. Karr was getting oxygen? 21 Standard postoperative care. 22 Α. Q, For pain? 23 For pain and for oxygenation of th 24 Α. 25 blood.

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Q, 1 And why was that required in Mr. 2 Karr? We use it routinely after Α. 3 operations. 4 Q, You are saying it is just a routine, 5 thing --6 7 Α. Yes. Q. - for patients to get oxygen after 8 surgery? 9 10 Α. Yes. Q. Doctor, what's dilutional therapy? 11 Dilutional therapy? Α. 12 Q. 13 Yes. It is intravenous fluids. 14 Α. That is your understanding of 15 Q. 16 dilutional therapy? 17 Yes. I am a little puzzled by the Α. term, because we don't tend to think of it as 18 dilutional therapy. We tend to think of it as 19 20 intravenous fluids. The result may be dilution, but at least medically we don't use 21 the term of dilutional therapy. 22 Q. So you are not familiar with the 23 24 therapy whereby you give patients fluids instead of replacing their blood volume? 25 CLEVELAND, OHIO (216) 687-1161

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Well, that, as I say, **I'm** not used

7	going to maintain body fluids.
8	
9	
10	order to treat somebody's condition
11	postoperatively?
12	A. Iam.

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And what types of patients would
17
           Q.
     you perform dilutional therapy in?
18
           Α.
                 Well, anyone who's lost a fair
19
     amount of blood but in whom you realize that
20
     the risks of giving transfusion may
21
     counterbalance the benefits of receiving the
22
     transfusion, and in patients who are anemic
23
24
     postoperatively but are not showing any
     objective or subjective signs of impairment
25
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use that term, may very well get the patient 2 through the postoperative period. 3 4 Q. So it is given to patients who you 5 Well, you are concerned about it Α. 6 only because they are now anemic when they 7 weren't anemic before the operation. 8 The classic example, of course, is the person who 9 has open heart surgery in whom there is 10 considerable blood loss, but we try not to 11 transfuse the patient because of the possible 12 risks of transfusion, and if the patient's 13 circulating volume can be kept up by nonblood-14 15 containing fluids, and the patient isn't showing any subjective or objective signs of 16 17 get through the postoperative period without 18 19 any complications. Q. Doctor, when you talk about the 20 2 1 risks of blood transfusion, what are you referring to? 22 Risk of a blood transfusion 23 Α. reaction because of mismatching of blood, risk 24 of the minor subgroup reactions which may 25

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manifest by chills and fever, and of course 1 more importantly the possibility of the 2 3 acquisition of hepatitis B or hepatitis C, and of course most importantly, the acquisition of 4 AIDS in transfused blood. 5 Ο, Was the blood at Deaconess Hospita 6 tested for AIDS in 1988? 7 Α. I have no idea. 8 Q. Do you know what the risk of 9 getting AIDS from a blood transfusion is? 10 I have no idea. 11 Α. Q. Do you have an opinion as to what 12 the risks of getting hepatitis B from a blood 13 transfusion are? 14 I don't know. 15 Α. Q. Do you know if the blood at 16 17 Deaconess Hospital was tested for hepatitis B? Α. No. T don't know. 18 Q, Is the blood at your hospital, 19 Fairview, tested for hepatitis B? 20 21 Α. I believe it is. Is the blood also tested for Q, 22 hepatitis C? 23 Only recently has that been 24 Α. possible to test. 25

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Q. Okay.

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because of these risks, are you? 8 9 Α. No. He was not transfused because there wasn't any objective evidence that he 10 needed a transfusion. 11 Q, If, in fact, he needed a 12 transfusion you would think it would have been, 13 given even in spite of these risk factors; is 14 that true? 15 You would treat the present Α. Yes. 16 17 indication rather than worry about the future consequence. 18 Okay. Doctor, what types of Q, 19 patients do you perform dilutional therapy in? 20 Well, the most common one, of 21 A. 22 course, would be our patients who have open heart surgery. 23 Do you believe Mr. Karr had 24 Q, 25 dilutional therapy?

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1 He had dilutional therapy from the Α. 2 standpoint of receiving large volumes of 3 intravenous fluids in the postoperative period. And why was he a candidate for 4 Q. Was the fluids that he was getting, 6 7 intravenously, was that a substitute for the blood transfusion? 8 It would help to be a substitute in 9 Α. terms of maintaining adequate blood volume so 10 that he could pump the remaining red blood 11 cells around the circulation at a more rapid 12 rate. 13 Q. But you don't equate giving 14 intravenous fluids with getting a blood 15 transfusion? 16 Intravenous fluids, as I said 17 Α. No. before, does not carry oxygen, but it makes it 18 possible to maintain the circulation. 19 ο. Was the dilutional therapy 20 21 successful in Mr. Karr? Yes. He was asymptomatic from the 22 Α. standpoint of oxygen requirements being met. 23 Q. And do you believe that a patient 24 25 such as Mr. Karr who is 60 years old, has a

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MS. ILER: And Mr. Bonezzi has no questions. He's not here, nor did he reserve the right to ask any questions of the doctor. MR. SCOTT: The deposition is concluded. CLEVELAND, OHIC) (216) 687-1 161

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1 history of diabetes and hypertension, is a candidate for dilutional therapy? 2 Yes. Α. 3 Q, Why is that? 4 Because he would be benefited by 5 Α. maintaining his circulating blood volume in the 6 presence of the anemia secondary to the 7 operation. 8 Ο, Would he also be benefited from a 9 blood transfusion to treat his anemia? 10 Α. Yes. 11 Q. Okay. Doctor, let me just look 12 over my notes to make sure that I have asked 13 you everything. 14 (Recess taken.) 15 16 (Thereupon, Watts Deposition 17 Exhibit 7 was mark'd for purposes 18 of identification.) 19 20 Q, Doctor, I have marked Dr. Singer's 21 report as Exhibit Number 7. That is the repor 22 23 that you were reading from when I had asked yo what your criticisms were of Dr. Singer's 24 report? 25

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CERTIFICATE 1 2 The State of Ohio,) SS: 3 County of Cuyahoga. 4) 5 I, Heidi L. Geizer, a Notary Public! 6 7 within and for the State of Ohio, duly commissioned and qualified, do hereby certify 8 that the within named witness, RICHARD W. 9 WATTS, M.D., was by me first duly sworn to 10 testify the truth, the whole truth and nothing 11 but the truth in the cause aforesaid; that the, 12 testimony then given by the above-referenced 13 witness was by me reduced to stenotypy in the 14 presence of said witness; afterwards 15 transcribed, and that the foregoing is a true 16 17 and correct transcription of the testimony so given by the above-referenced witness. 18 I do further certify that this 19 deposition was taken at the time and place in 20 21 the foregoing caption specified and was completed without adjournment. 22 23

24

25

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I do further certify that I am not a relative, counsel or attorney for either party, or otherwise interested in the event of Cleveland, Ohio, on this $\frac{ZZ^{NU}}{M}$ day of 1992. Heidi L. Geizer, Notary Public within and for the State of Ohio My commission expires January 22, 1995. CLEVELAND, OHIO (216) 687-1161

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LAWYER'S NOTES

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Cleveland, Ohio 44115 Phone 216-687-1161

Richard W. Walts, M.D., Inc.

3885 ROCKY RIVER DRIVE • CLEVELAND, OHIO 44111 (216) 941-7616

RICHARD W. WATTS, M.D., F.A.C.P., F.A.C.C. CERTIFIED: CARDIOLOGY AND THOMAS J. COMERFORD, M.D., F.A.C.C. CHRISTOPHER SUNTALA, MD. CERTIFIED: CARDIOLOGY AND CERTIFIED INTERNAL MEDICINE INTERNAL MEDICINE INTERNAL MEDICINE CARDIOLOGY CURRICULUM VITAE - RICHARD W. WATTS, M.D. - 1991 Education **1942 B.** Sc. Pennsylvania State University Western Reserve University School of Medicine 1946 M.D. . 4* Intern, Department of Medicine, University Hospitals of Cleveland 1947 Jr Asst Res, " " " " " " " " 1947-48 Jr. Asst. Res., Dept. of Pathology н 11 41 ш 1948-50 ist Lt. & Captain, U.S. Army Medical Corps, Pathologist and Laboratory Officer, 361st Station Hospital, Tokyo, Japan 1950-51 Asst Res, Dept. of Medicine, University Hospital of Cleveland 1951-52 Cardiology Fellow, University Hospitals of Cleveland

Certifications: American Board of Internal Medicine **1955** Subspecialty Board in Cardiovascular Diseases **1959**

Appointments: Assistant Clinical Professor of Medicine, Case Western Reserve University School of Medicine since 1980 Medical Director, Kemper Cardiac Unit, Fairview Genl. Hospital 1960 to 1985 Chief, Cardiology Section, 11 11 since **1958** Active Staff н Chief, Department of Medicine 11 1961 - 311 11 Adjunct Staff, Lakewood Hospital Assistant Physician, Cleveland Metropolitan General Hospital Consulting Staff, Lutheran Medical Center Courtesy Staff, St. John & West Shore Hospital Affiliate Faculty, Basic Life Support, Heart Association of NE Rhio " Advanced Cardiac Life Support, Heart Assn. of NE Ohio

Achievements: Founder of Coronary Care Unit, Fairview General Hospital, first in northern Ohia and one of the first in the country Founder of the paramedic program at North Olmsted Fire Department, first in Northern Ohio

Professional	Organizations:	Cleveland Academy of Medicine
DEPOSITION EXHIBIT Watts 1 7-6.92 kg		Ohio State Medical Association American Medical Association Royal Society of Medicine American College of Physicians, Life Fellow American Heart Association Fellow of the Council on Clinical Cardiology American College of Cardiology, Fellow

Awards: Alpha Omega Alpha (medical school honorary) Meritorious Service, American Heart Association Honorary Life Member and former President, Board of Trustees, Heart Association of Northeastern Ohio Development for Progress Award, Board of Trustees, Fairview General Hospital 123rd Luis Guerrero Lecturer, University of Santo Tomas School of Medicine, Manila, Philippines

Author of 15 scientific publications

IN THE COURT OF COMMON PLEAS CUYAHOGA COUNTY, OHIO

IRENE KARR, Executrix of the Estate of Ray Karr, Deceased.

Plaintiff

vs.

DR. FREDERICK SCHNELL, et. al.,

Defendants

CASE NO. 175790 JUDGE MICHAEL GALEAGHER

GERALD

CUY CLERK

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PLAINTIFF'S NOTICE OF DEPOSITION DUCES TECUM FOR RICHARD W. WATTS, M.D.

Counsel will take notice that the undersigned will take the deposition of RICHARD W. WATTS, M.D. on Monday, the 6th day of July, 1992, at 9:00 A.M., at Dr. Watts' office at 3885 Rocky River Drive, Cleveland, Ohio 44111.

This deposition is taken pursuant to Rule 30 of the Ohio Rules of Civil Procedure. The oral examination will continue from day to day until completed and may be used as evidence in the trial of the above-entitled matter.

No subpoena will be served. Should the witness fail to appear at the designated time and place, a request for sanctions will be made in accordance with Rule 37(D) of the Ohio Rules of Civil'*Procedure.



DUCES TECUM

Bring with you to the deposition:

- All materials you reviewed in connection with the above-entitled case;
- 2. All medical literature, periodicals, books, etc. that you reviewed in connection with this case;
- 3. Your updated Curriculum Vitae;
- 4. All reports and notes made in connection with this case.

Respectfully submitted,

NANCY C. ILER (0038955) DON C. ILER CO., L.P.A. 1640 Standard building Cleveland, Ohio 44113 (216) 696-5700

Attorney for Plaintiff

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telephone in the State

PROOF OF SERVICE

A copy of the foregoing Notice of Deposition For Richard W. Watts, M.D. was mailed this <u>day</u> of June, 1992 to John R. Scott, Esq., Reminger & Reminger Co., L.P.A., 113 St. Clair Avenue, N.E., Fourth Floor, Cleveland, Ohio 44114, Attorney for Defendant Dr. Frederick Schnell: and to William D. Bonezzi, Esq., Jacobson, Maynard, Tuschman & Kalur Co., L.P.A., 1001 Lakeside Avenue, Suite 1600, Cleveland, Ohio 44114, Attorney for Defendants Dr. Thomas M. Tank and Neurological Associates, Inc.

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Attorney for Plaintiff

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Richard W. Walls. M.D. Inc.

3885 ROCKY RIVER DRIVE . CLEVELAND, OHIO 44111 (216) MI-7616

RICHARD W. WATTS, M.D., F.A.C.P., F.A.C.C. CERTIFIED: CARDIOLOGY AND INTERNAL MEDICINE THOMAS J. COMERFORD, MD., F.A.C.C. CERTIFIED: CARDIOLOGY AND INTERNAL MEDICINE

CHRISTOPHER SUNTALA, M.D. CERTIFIED: INTERNAL MEDICINE CARDIOLOGY

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December **B**. 1991

John R. Scott, Esq., Reminger & Reminger Co. LPA, Cleveland, Ohio 44114-1273

Re: Irene Karr v Frederick Schnell, M.D., et al. Cuvahoga County Common Pleas Case # 175790 Your File # 3600-02-16773-89

Dear Mr. Scott,

At your invitation I have reviewed the following documents in the above titled legal action:

Office records of Dr. Schnell Deaconess Homoital records of Ray Karr, May 2-5, 1988 Office records of Dr. Tank Autopsy report Deposition of Dr. Schnell on October 4, 1990 Deposition of Dr. Tank on October 31, 1990 Letter of Dr. Singer on June 26, 1991

Based upon this review and in the light of my training and experience in caring for patients of similar background, I can state with reasonable medical certainty that Dr. Schnell met the accepted standard of care in his treatment of Mr. Karr.



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ME: KARR. RAY	
Hospital Number: 1726058 Rejuested by: T. TANK, M.D.	
Consulting: P. <u>SCRNELL, N.D.</u>	 4279 PEARL ROAD, CLEVELAND, OHIO 44109

PRESENTING PROBLEM: Lumbar disc disease, preoperative evaluation and multiple underlying
medical problems.

MEDICAL HISTORY: This 60 year old energetic and ambitious male has a significant background of medical problems which remotely include an appendectomy in 1944. In 1969 he developed the onset of major hypertension and since then has been on increasing increments of medications with semi-effective control of blood pressure. 'In1999 he developed the onset of symptomatic diabetes and by 1975 he required insulin for control. His gradually increasing insulin doses have in part been related to poor adherence to diabetic dieting. In 1979 he was recognized to have diabetic retinopathy and since that time he has been followed for the same through Cleveland Clinic. He's had multiple laser treatments particularly on the right side with substantial preservation of vision.

In 1981 he underwent angiography for evaluation of carotid bruits and was found to have 80% stenosis of the right internal carotid artery and 95% stenosis of the left internal 'carotid artery. At the same time he underwent routine cardiac catheterization and this showed minimal irregularities of the right coronary artery and left anterior descending artery - without obstruction. There was '40-50% obstruction in the proximal bifurcation of posterolateral branch of the circumflex coronary artery. None of these lesions were thought to be benodynamically significant. In August 1981 he underwent a left carotid endarterectomy and in 'February 1982'underwent a right internal carotid endarterectomy. In 1984 he underwent right cataract surgery!

In December "1984 he sustained an industrial back injury and he's had ongoing radicular pain since. For evaluation and management of the same he has had prior chiropractic and orthopedic evaluations and multiple conservative treatments. Despite this his disability has been increasing and is such now that he has been unable to pursue his employment as a ,bricklayer and marble worker. At the time of his last examination prior to referral to Dr. Tank he was also found to have some decreased leg pulses associated with left calf .claudication. It was not certain whether the left calf claudication was neurogenic or vascular,

Following evaluation and studies by Dr. Tank he is programmed for a lumbar laminectomy tomorrow.

On systems review there are no significant problems, not covered in the present illness.

CONTINUED

Date:



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MEDICAL RECORDS

Tame: KÁRR. RAY			
Hospital Numbe<u>r: 1726058</u>	-		
R! ested by: T. TANK. M.D.	• 1	Drucconre - Dospital	
Consulting: F. SCHNELL, M.D.		4229 PEARL ROAD, CLEVELAND, OHIO 44100	1
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PAGE 2.

PHYSICAL EXAMINATION: ... Temperature is 37 and pulse is 80, blood perssure is 160/90. Patient appeared well developed and moderately.obese, in .noparticular distress. The skin is generally dry and clear. ' EYES:' Lens implant in the right. Multiple laser scars in the right and a few in the left plus bilateral diabetic scars'. EARS: normal. NOSE AND THROAT: Normal. NECK: supple, 'Endarterectomy scar is noted. Thyroid is not enlarged. LYMPHATICS: normal.: LUNGS: clear to percussion and auscultation. CARDIOVASCULAR: normal precordial activity, regular 'rhythm: Grade, 2/6 left sternal border murmur. • Ther are no carotid bruits. The right 'fegoral pulse is slightly diminished compared to'the left. Both popliteal pulses are intact but diminished. The left posterior tibial and dorsalis pedal pulses are absent. The right posterior tibial pulse is absent, but the right dorsalis pedal pulse is fairly, normal. ABDOMEN: soft and obese.' Appendectomy scar is noted. BACK; no major deformities, EXTREMITIES: No edema. No joint'deformities. GENITALIA: pormal... RECTAL: examination done four months ago and the prostate was 1-2 plus symmetrically enlarged. NEUROLOGICAL: see neurosurgical report. .

IMPRESSION: 1) Lumbar disc disease, '.precipitated by 'industrial trauma. 4) Diabetic retinopathy. 5) Minimal non-obstructive coronary disease -> non-symptomatic. 6) Status post asynchronous bilateral internal carotid endarterectomies. 7) Vascular insufficiency of the lower 'extremities'..... e in the second 8) Benign prostatic hyperplasia.

••• RECOMMENDATIONS : Despite the multiplicity of medical problems and despite the long list of medications used to control the same patient is generally in reasonably stable condition in relation Po' the planned surgery. His diabetes; "hypertension and .other medical problems will be managed postoperatively.



FS:MRC#30 5-2-88 D: T: 5-3-88 TAPE#: 537

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BARRY L. SINGER. M.D. 1544 DEKALB STREET NORRISTOWN, PENNSYLVANIA 19401

DIPLOMATE AMERICAN BOARD OF INTERNAL MEDICINE DIPLOMATE BOARD OF ONCOLOGY DIPLOMATE BOARD OF HEMATOLOGY

TELEPHONE (215) 279.7696

June 26, 1991

Nancy Iler, Esquire 1640 Standard Building Cleveland, Ohio 44113

Re: Ray Karr, deceased

Dear Ms. Iler:

At your request, I have reviewed extensive records regarding the above captioned. These records include treatment records from Deaconess Hospital inclusive the dates May 2, 1988 to May 5, 1988. I have also reviewed a report of the coroner's office of Cuyahoga County regarding an inquiry on the death of Mr. Karr. I have reviewed Cleveland Clinic records from 1981 and 1982 regarding the patient's prior surgeries and cardiac catheterization. Finally, in its entirety, I have reviewed the depositions of Dr. Schnell and Dr. Tank.

Upon completion of my review of these records it is my opinion that the care rendered to Mr. Karr by **Dr.** Schnell and Dr. Tank was below accepted medical standards. It is my opinion that the death of Mr. Karr was directly the result of hypoperfusion of the patient's myocardium which resulted in a cardiac event leading to his death. In the following paragraphs I will briefly summarize the patient's history and comment further regarding the care that he received from Dr. Schnell and Dr. Tank.

The records indicate that Mr. Karr, described as an energetic and ambitious male of 60 years, was under the care of Dr. Schnell for several years prior to his surgery in May 1988. The patient had a prior history of an appendectomy in 1944. Since 1969 he had been under the care of Dr. Schnell for the treatment of hypertension. In addition, the patient developed diabetes mellitus, and in 1975 was insulin dependent. In 1979, he suffered further complications of diabetes when he was diagnosed as having diabetic retinopathy and had been followed at the Cleveland Clinic. He had received several laser treatments.

In 1981, the patient underwent angiography of the head vessels and was



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diagnosed as having an 80% stenosis of the right internal carotid and 95% stenosis of the left internal carotid. He also underwent cardiac catheterization, but was not found to have significant obstructive disease of the coronaries. In August 1981, he underwent a left internal carotid endarterectomy, and in February 1982, underwent a right internal carotid endarterectomy.

In 1984, the patient sustained a severe lower back injury while at work in December. He was able to return to work, but then complained of severe low back and bilateral leg pain. A lumbar CT scan in January 1985 revealed a herniated nucleus pulposis of the right L4-L5, bilateral recessed stenosis at L5-S1, and spondylosis and spondylo-arthrosis at L2, L4 and L5.

The patient was initially treated conservatively. However, he again developed increasing pain several months later with radiation to the right and left hip, and down the left leg into L5 and S1 dermatomes. Chiropractic treatments were of no avail. It was then decided that the patient would require surgery. He was seen by Dr. Tank, and admitted to the Deaconess Hospital on May 2, 1988.

The patient was seen on cardiac consultation and clearance by Dr. Schnell. As Dr. Schnell states in his deposition, the patient had no acute cardiac problems. His diabetes had been managed with insulin. He was on medications to control his hypertension at the time of surgery. He was cleared for surgery.

A CBC on admission revealed a white count of 7,300, hemoglobin 13.8 grams, hematocrit 39.6%. It should be noted that his other chemistry studies revealed a BUN of 29 mg/percent which was slightly elevated over normal, and creatinine of 1.9 mg/percent which was slightly elevated to the top normal 1.3 mg/percent.

The patient underwent the surgery uneventfully. Post-operatively, initially, the patient complained of some back pain, but was able to take fluids well,

The surgery was performed on May 3. It should be noted that on May 4, the first post-operative day, the patient was considered by Dr. Tank to be inappropriate and confused. A blood count obtained this day, including a hemoglobin/hematocrit, showed a 5 gram reduction in hemoglobin 13.8 to 8.8 grams, and the hematocrit dropped to 26%. It should be noted also that a BUN done on this date, instead of showing a fall as one would expect in dilutional changes since the patient had received several thousand cc of fluid intraoperatively and post-operatively, showed rather **a** rise to 43 mg/percent from the prior pre-op 29 mg/percent. The hemoglobin of 8.8

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grams was recognized, since it is noted in the progress notes by Dr. Tank.

On the second post-operative day, the patient remained afebrile. He had some wheezing. However, he was still inappropriate and his hemoglobin had now fallen further to 7.5 mg/percent and his hematocrit to 22.5%. His blood gases on nasal oxygen were normal.

No transfusions were ordered for this patient by either Dr. Tank or Dr. Schnell on May 5th, the second post-operative day. Later that day, the patient developed asystole. CPR was performed, but this was unsuccessful and the patient was pronounced dead at 10:30 a.m. on May 5th.

Lab studies on May 5th revealed a significant hypokalemia with a potassium of 3.2 and a moderate hyponatremia with a sodium of 125. In addition, the BUN was elevated to 41, and the creatinine measured at 1.5.

Discussion

From review of the records, it is evident that Mr. Karr postoperatively had a significant drop in his hemoglobin and hematocrit. I have reviewed the depositions of Dr. Schnell and Dr. Tank. It was the opinion of both physicians that this patient's drop in hemoglobin, manifested postoperatively, was strictly dilutional. I disagree with this conclusion since'the patient's BUN did not drop but rather rose postoperatively, and this would be more compatible with pre-renal azotemia such as gastrointestinal bleeding into the GI tract. Although no bleeding was found on post-mortem examination, this lack of finding of blood does not rule out GI blood loss previously.

In any case, whatever the source of the drop of hemoglobin, it is my opinion that rectification of this situation was mandatory in this patient. Obviously, Mr, Karr who was 60 years of age could not tolerate a hemoglobin drop from 13.8 grams to 7.6 grams within 48 hours without manifesting some cardiac irritability or neurologic deficit. It is my opinion that the cause of this patient's demise was directly related to the fact that he was no longer getting adequate perfusion to his major organ systems, i.e. the heart, lungs and brain. It is my opinion that this patient was highly susceptible to an arrhythmia in view of his history of diabetes, hypertension and cardiovascular disease. The drop in hemoglobin, in my opinion caused significant hypoperfusion of the myocardium as well as the brain resulting in a cardiac event, most likely an arrhythmia or an ischemic episode leading to an arrhythmia.

It is evident that this patient did tolerate the surgery well. The cause of his death is related to his post-operative care and management of

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his cardiovascular system. It is my opinion that the drop in hemoglobin was detrimental to his cardiovascular system, and resulted, within reasonable medical certainty, to a cardiac event such as an arrhythmia which led to his immediate demise. This patient required supportive care postoperatively. It is my opinion that he did not receive such supportive care when transfusion was held back by both Dr. Tank and Dr. Schnell.

In addition, this patient had a hypokalemia with a potassium of 3.2 which further made him susceptible to the development of an arrhythmia. The combination of hypoperfusion, hypoxia, and hypokalemia, in my opinion, led to the development of a terminal arrhythmia and/or cardiac arrest in this patient.

It is my opinion that the death of this patient was entirely preventable. Either Dr. Schnell or Dr. Tank could have tranfused this patient so that hypoxia and hypoperfusion of this patient's vital organs would not have occurred. To ascribe his drop in hemoglobin strictly to dilutional factors, in my opinion, is absurd. The patient's BUN did not decrease, x but rather increased post-operatively, indicative of ischemia/bleeding, and/or organ damage related to his state, but definitely not a dilutional situation.

Finally, it is my opinion that this patient's confusional state postoperatively was related to the drop in hemoglobin and his hypoperfusion state. Furthermore, the complications related to hypocalcemia and other electrolyte inbalance, in my opinion contributed directly to the development of the cardiac event, which in my opinion was a terminal arrhythmia.

I will be happy to discuss further my comments regarding this case at any future time.

Sincerely yours,

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Barry L. Singer, M.D.

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