1 1 IN THE COMMON PLEAS COURT OF 2 FRANKLIN COUNTY, OHIO DOC 306 3 4 MICHAEL DUNIGAN, ORIGINAL 5 et al., : : Plaintiffs, б 7 vs. : CASE NO. 89CV-10-7263 ERIE INSURANCE GROUP, 8 et al., 9 Defendants. 10 Deposition of ROBERT L. MCLAURIN, MD, a 11 witness herein, called by the plaintiff for 12 cross-examination, pursuant to the Ohio Rules of 13 Civil Procedure, taken before me, Lee Ann Berry, 14 a Notary Public in and for the State of Ohio, at 15 the offices of Robert L. McLaurin, 111 Wellington 16 Place, Cincinnati, Ohio 45219, on Tuesday, 17October 22, 1991, at 5:19 p.m. 18 19 20 21 22 23 24

2 **APPEARANCES:** 1 2 On behalf of the Plaintiff: Christopher M. Mellino, Esq. 3 Charles Kampinski, Co. 1530 Standard Building 4 Cleveland, Ohio 44113 5 On behalf of the Defendant Dr. Smith: 6 William A. Davis, Esq. Jacobson, Maynard, Tuschman & Kalur 7 Corporate Pavilion at city Center 175 South Third Street 8 Suite 880 Columbus, Ohio 43215 9 On behalf of Defendant Midwest 10 Heating & Cooling: 11 Vincent J. Lodico, Esq. Crabbe, Brown, Jones, Potts & Schmidt 12 500 South Front Street 13 Suite 1200 Columbus, Ohio 43215 14 On behalf of the Defendant Mount Carmel Hospital: 15 16 Ted L. Earl, Esq. Earl, Warburton, Adams & Davis 17 136 West Mound Columbus, Ohio 43215 18 19 2.0 21 <u>STIPULATIONS</u> 22 It is stipulated by and among counsel for 23 the respective parties that the deposition of 2.4 ROBERT L. MCLAURIN, MD, a witness herein, called

3 by the plaintiff for cross-examination pursuant 1 to the Ohio Rules of Civil Procedure, may be 2 3 taken at this time by the notary; that said deposition may be reduced to writing in stenotypy 4 by the notary, whose notes may then be 5 transcribed out of the presence of the witness; 6 7 and that proof of the official character and 8 qualifications of the notary are expressly waived. 9 10 11 INDEX 12 Examination of ROBERT L. MCLAURIN Page 13 By Mr. Mellino: 4 By Mr. Davis: 50 By Mr. Earl: 14 52 15 Plaintiff's Exhibit Page Identified 16 No. 1 б 28 17 No. 2 18 19 2.0 21 22 23 24

4 ROBERT L. MCLAURIN, MD 1 having been first duly sworn, testified as 2 follows: 3 4 CROSS-EXAMINATION BY MR. MELLINO: 5 Q. Doctor, would you state your name, б 7 please? Robert L. McLaurin. Α. 8 Q. And your address? 9 My office address is 111 Wellington 10 Α. 11 Place, Cincinnati, Ohio. 12 Q. Okay. Do you practice under a group 13 name? I'm sorry? 14 Α. Do you practice under a group name? 15 0. 16 Α. No. I'm just a single, lone 17 practitioner. Okay. Your office is in with a group Q. 18 19 of neurosurgeons though? 20 Α. Well, we share the offices, that's all. Q. Okay. 21 We're not associated otherwise. 22 Α. Q. Are the other doctors here associated 23 with each other? 2.4

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5 1 Α. No. Q. There was a sign down the hall Okay. 2 that said Neurosurgical Associates, who are they? 3 Well, the term is meaningless. Α. 4 There's, there are one, two, three, four, five 5 neurosurgeons that share the offices here, but 6 none of us are associated with each other 7 economically or in any other way. There was 8 originally a group here that were associated and 9 10 that's probably where the name came from, but we're no longer associated. 11 120. Okay. Well, were you ever associated with Neurosurgical Associates? 13 Α. 14 No. Q. You've just handed me your CV before we 15 started and I tried to take a look at it a little 16 17 bit. I noticed on here that in between all your internships there seems to be a gap between 1945 18 and 1947, what were you doing during that period 19 2.0 of time? 21 Α. I was in the army. 2.2 Q. Okay. Where at? Most of the time 1 was at Walter Reed 23 Α. 24 Hospital in Washington.

Q. Okay. And you're board certified in 1 2 neurosurgery? 3 Α. Yes. Q. Have you ever attempted to become board 4 5 certified in any other field? Α. 6 No. 7 Q. How many times have you taken the board certification examination? 8 9 Α. Once. 10 Q. Is there any requirement to become recertified? 11 Α. 12 No. Q. Is the -- by the way, let me just mark 13 14 this CV as Exhibit 1. Doctor, I'm handing you what's been marked as Exhibit 1, would you 15 identify that, please? 16 That's a copy of my curriculum vitae. 17 Α. Q. Is that current and up-to-date as of 18 19 today? 20 Α. Practically up-to-date, there's 21 probably one or two publications that are not 22 included here, but that's all. 23 Q. Okay. What are those publications that 24 would be included on there?

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7 Well, the most recent one was one that Α. 1 2 was, that is just in publication at the present time, it was a -- I'm not sure what you're 3 asking. It has to do with, it's the publication 4 of a lecture that **I** gave at the American 5 Association of Neurological Surgery in about 6 7 March of 1991, known as the Matson lecture in pediatric neurosurgery. 8 Okay. Q. 9 I'm not quite sure what else you want 10 Α. 11 to know about it. Q. Was there another publication or is 12 that the only other one? 13 I think there may be one other one that 14 Α. is not included in here, which has to do with, 15 also with some pediatric, pediatric neurosurgical 16 problems having to do with tumors in the brain in 17 18 children. Q. 19 Okay. Are there any articles or books 20 that you've published that are on point to the issues involved in this case? 21 22 Α. Well --Q. Do you want to look at the CV? 23 Well, there's certainly one article 24 Α.

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1 that, that I can think of. With regard to books, 2 the books that I have done certainly include, or 3 some of them certainly include material that 4 would be, would be relevant to this problem. For 5 example, the books on pediatric neurosurgery 6 include, among other things, infections of the 7 spine.

Q. Okay.

8

9 Α. The books on spina bifida have to do with congenital abnormality of the spine, which 10 also may be complicated by infections, so that 11 12 would be included as part of it. Now, there was a specific article that, that I would have to go 13 through here to find, it had to do with 14 infections of the spine. Do you want me to spend 15 16 some time going through it? 17 Q. Yes, could you find that for me and just indicate? 18 Here it is. 19 Α. Just tell me what number it is. Q. 20 It's number 43. 21 Α. 22 Q. Okay. Now, your CV indicates that 23 you're, you have appointments at several different hospitals --2.4

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9 Yes. 1 Α. Q. \_\_ in the Cincinnati area, and these 2 are all still, you still currently have 3 privileges at these hospitals? 4 I think I have discontinued my 5 Α. privileges at Bethesda Hospital, if that's still б on there. 7 Q. Yes. 8 Otherwise they're all current. 9 Α. Okay. Q. Okay. What does courtesy staff mean? 10 11 It's a, a type of staff appointment to Α. the hospital, which is generally used by a person 12 who doesn't use the hospital very much, and it is 13 sort of a less commitment to the hospital than 14 15 say an attending neurosurgeon. 16 Q. Do you have full privileges at all 17 these hospitals? Α. Yes. 18 Q. Okay. 19 2.0 Α. Yes. 21 Q. What does consultant mean? 22 Α. Well, that's a rather honorary title which eliminates the need for certain 23 requirements of the hospital, attending staff 2.4

10 1 meetings and that sort of thing. It's principally for people who are considered rather 2 senior persons, and they are no longer required 3 4 to serve on committees and attend staff meetings and that sort of thing. 5 б Q. Okay. And your CV also reflects that 7 you graduated last year from the University of Cincinnati, College of Law. You received a J.D. 8 9 degree? Α. That's correct. 10 11 Q. Are you currently working in the legal profession? 12 13 Α. Part-time, yes. Q. Where? 14 15 The firm Rendigs, Fry, Kiely & Dennis. Α. 16 Q. Okay. And how long have you been 17 employed there? 18 Α. Approximately a year. Q. What's your position there? 19 Of counsel. 2.0 Α. Q. How many hours a week do you work 21 22 there? Roughly 30 hours a week. 23 Α. 24 What type of firm is that, what kind Q.

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11 of, what's their area of practice? 1 Well, it's a rather broad-based firm. 2 Α. They do some defense work, they do plaintiffs' 3 work in the areas of malpractice and personal 4 injury, and they also do corporate and estate 5 б management and environmental law. It's a, between 40 and 45 member firm. 7 Q. And how about your practice, what does 8 that consists of? 9 I've emphasized principally personal 10 Α. 11 injury and, and malpractice work. 12Q. On behalf of the defense? I'm sorry? Α. 13 Q. 14 Defendants, you represent defendants in lawsuits? 15 16 Α. Well, I, yes, and plaintiffs both, yes. 17 Q . How many plaintiffs have you represented in the last year? 18 Α. Well, let me clarify. When I say I've 19 represented them, I don't personally, haven't 2.0 21 represented any of them, but I have consulted with the attorneys that are their 22 representatives, that do represent. And the 23 answer to your question, with that modification, 24

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is probably, I've been involved in three or four 1 plaintiffs type work, plaintiffs' cases. 2 Q. How many, and were those personal 3 injury cases? 4 No, no, malpractice cases. 5 Α. Q. All of them? б 7 Α. I think, I think most of those that I was referring to are malpractice, I thought 8 that's what you were asking about, frankly. 9 Ι can't remember any plaintiffs' cases in personal 10 11 injury, but there have been about three or four plaintiffs' cases in malpractice that I've been 12 involved in. 13 14 Q. Okay. And how about defendants? 15 Probably the same number, or -- Yes, Α. 16 probably five or six. Q. 17 These are cases that you've consulted on? 18 19 Α. Yes. Q. Not actually handled yourself? 20 21 Α. That's correct. 22 Q. And these are malpractice cases? I'm sorry? 23 Α. 24 Q. These are --

13 Those are malpractice cases, yes. 1 Α. Q. 2 Have you handled any cases by, or that you were the primary attorney handling them in 3 the last year? 4 5 Α. Well, there was one, there was one case that **I** personally tried, yes. It was a personal б 7 injury defense. Q. All right. You tried this case? 8 9 I'm sorry? Α. Q. You tried this case? 10 11 Α. Yes. 12 Q. Okay. That was in defense of a personal injury case? 13 Α. 14Yes. Q. 15 Do you have any of your own clients that you brought to this firm? 16 17 Α. No. Q. 18 Are there other cases that you're handling? 19 2.0 By myself, no. Α. 21 Q. Well, what do you do there at the law firm on a daily basis? 22 Well, I review cases, I take 23 Α. depositions. I've been involved in arbitration, 24

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14 I've filed several motions for summary judgement 1 on some personal injury cases, that sort of 2 thing. 3 Q . Okay. And most of the work that you've 4 done, has it been on behalf of defendants? 5 Α. Well, probably the majority has, I б guess, although it has been for both. Ι, Ι 7 presume the majority has been for the defendants. 8 Well, do you know the percentage of 9 Q. defense clients your firm has as opposed to 10 plaintiffs? 11 Α. No, I really don't know that. 12 Q. 13 Okay. I'm not familiar with that. 14 Α. Q. Well, when you say that the majority of 15 the work you've done has been for defendants, can 16 17 you give me an estimate percentage wise? Well, you know, 60-40, 65-35, something 18 Α. like that. As I indicated before, I've been 19 involved in three or four cases for the 20 plaintiffs and probably five or six for the 21 defendants in malpractice work. And as I also 22 23 stated, most of the personal injury work has been 24 for the defense, so I'm not quite sure how I can

1 answer it better than that.

Q. Okay. How frequently do you act as an 2 expert witness in medical malpractice cases? 3 Well, I would guess that, probably two 4 Α. or three times a year I'm asked to review cases. 5 Q. And for how long have you reviewed 6 cases? 7 Α. How long have I been doing that? 8 9 Q. Yes. Oh, probably -- well, I can't say that 10 Α. it's been at that rate for, I was going to say 11 between ten and fifteen years, but I'm not sure 12 that it's been at that rate for that length of 13 time. I would estimate that it probably --14 Can you tell me how long you've been 15 Q. 16 acting as an expert witness? Well, probably fifteen years, I guess. 17 Α. Q. 18 Okay. 19 Α. But initially it was probably one case 20 every year or two. Q. 21 And at some point was it more than two or three times a year? 22 Α. No. 23 2.4 Q. Okay. So it's never been more than two

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16 or three times, but the early years was less than 1 that? 2 Yes, that's correct. I think that's 3 Α. 4 correct. 5 Q . How many hours a week would you say you spend in your capacity as a medical expert? 6 7 Α. As a medical expert? Q. Yes. 8 How many hours a week? Gosh, not more 9 Α. 10 than, if I averaged it out to per week, it would probably be less than one hour a week. 11 Q. And how many hours a week do you spend 12 practicing neurosurgery? 13 About 30 hours a week. 14 Α. Q. When you became a lawyer, did you 15 intend to cut down your neurosurgery practice to 16 part-time? 17 Yes, I have cut it down to part-time. 18 Α. 19 Q. Okay. Have you ever had any of your 20 privileges at any of the, any hospital suspended, revoked or restricted in any manner? 21 22 Α. No. Q. 23 Have you ever had your license suspended or revoked? 2.4

17 Α. No. 1 Q. 2 Have you been sued? Α. Yes, I've been sued. 3 Q. How many times? 4 I believe three. 5 Α. Q. And when did those occur? б Α. I'm sorry? 7 Q. When did those occur? 8 Well, one is pending right now, and --9 Α. Q. What's the name of the case? 10 MR. LODICO: I'm going to object to 11 this line of questioning. 12Α. I knew you'd ask that and really I, 13 quite honestly I can't remember his name. He was 14 15 a person that I operated on about two or three years ago and I honestly cannot recall his name 16 17 at the moment. Q. Are you the only defendant in the 18 lawsuit? 19 20 Α. I'm sorry? Are you the only defendant in the 21 Q. lawsuit? 22 23 Α. Yes, yes. 2.4 Q. What are the allegations?

He had a complication of the surgery, Α. 1 and of course the allegation is that the surgery 2 wasn't performed properly. 3 What was the complication? Q. 4 He had some disturbance of bladder and Α. 5 bowel function post, after the operation. б Q. What was the operation? 7 For a herniated disc in the lumbar Α. 8 region. 9 Q. When did the other two occur? 10 11 Α. Oh, there was one about ten years ago. 12Q. 1981? Again I don't remember the, I can't 13 Α. 14 recall the name. It was a person that I had seen in consultation in my office, and the patient 15 deteriorated over the weekend and I was not 16 17 notified. And the allegation was, of course, that I should have hospitalized him at the time 18 that I saw him on Friday in my office. And there 19 was a settlement made in that case, I think the 2.0 settlement was, I don't know, \$75,000 or 21 something of that sort. 22 What was his condition then that Ο. 23 deteriorated? 24

19 1 What was the condition? Α. Q. 2 Yes. A brain, a brain abscess. 3 Α. Q. Okay. And you don't remember the name 4 5 of that case? Α. No. 6 7 Q. Were there other defendants? Α. No. 8 Q. 9 You were the only defendant in that case also? 10 Α. That's right. 11 Q. All right. What was the other one? 12 The other one was a child that I 13 Α. 14 operated on who became quadriplegic, and that ended up as a summary judgement for the defense. 15 Q. Okay. Were these all in Hamilton 16 County? 17 I believe that the child, that the 18 Α. child case was probably in Clermont County, I 19 believe. 20 Q. 21 I'm sorry, Clermont? 22 Clermont, I believe that's correct. Α. 23 Q. And in your capacity as a lawyer, have 24 you done work for Erie Insurance Company?

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20 1 Α. Done work for? 2 Q. Erie Insurance Company. Α. Erie? 3 Q. Yes, is that one of the clients of your 4 firm? 5 Α. You've lost me, what are you asking, 6 whether I --7 Right, I did change the guestion. Q. 8 The question is, is Erie Insurance Company a client 9 of your firm? 10 I don't know. 11 Α. 12 Q. Okay. Have you --I don't believe so, but I don't know. 13 Α. Q. All right. So then I take it you 14 haven't done any, you haven't represented them 15 and done any work on any of their cases as a 16 17 lawyer? Α. That's correct. 18 Q. 19 Are you currently affiliated with the University of Cincinnati? 2.0 21 Α. Yes. Q. 22 But you're no longer the director of 23 neurosurgery? 24 Α. That's correct.

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21 Q. Why is that, why are you no longer the 1 2 director? Well, for one thing I was requested to 3 Α. be, to discontinue my job as director; and 4 5 secondly, I'd be too old anyway. Q. Okay. 6 I would have had to have retired by now 7 Α. 8 as director. Q. 9 Okay. When would you have had to retire? 10 11 Α. At age 65 is when they expect you to retire. 12 They expect you to retire? 13 Q. (Witness nodded head.) 14 Α. Q. It's not mandatory then? 15 I think you can, with special 16 Α. permission you can stay till 68. 17 Q. Okay. You were asked to step down in 18 19 1982? 20 Α. That's correct. All right. You were 60 years old at 21 Q . that time? 22 23 That's correct. Α. 24 Q. Who asked you to step down?

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22 The chairman of the department of 1 Α. 2 surgery. Q . Okay. And why did he ask you to step 3 down? 4 5 Α. Because he and I had disagreements about how the department should be run and he б asked me to step down. 7 Q. Okay. And you stayed on there as a 8 professor of surgery? 9 10 Α. That's correct. Q. Was there a lawsuit that arose out of 11 you being asked to step down? 12 13 Α. Yes. Q. Is that still pending? 14 15 Α. No. Q . How did that resolve? 16 The question, and the ultimate question 17 Α. in the lawsuit, was whether he could do it with 18 no apparent reason, or with no reason given. 19 And the conclusion was that he did have the right to 20 do that without any reason, and so --21 22 Q. Was it a wrongful discharge type --23 Α. Huh? 24 Q. It was a wrongful discharge type

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23 1 lawsuit? Α. Yes, but the conclusion was that I did 2 not have a property right in the position and 3 that he, it was an employment of will sort of 4 situation, and regardless of whether there was a 5 reason or not, he had a right to do it. б Q. 7 Did that case go to trial? Α. Yes. 8 9 Q. In Hamilton County? Α. Yes. 10 Q. When? 11 12 Α. Probably about 1984, '85. Q. 13 How many times have you been deposed as an expert witness? 14 Now, you're including personal injury 15 Α. as well as malpractice? 16 17 Q. No, I guess what I want to know is expert witness in a malpractice case. 18 How many times? I would estimate ten 19 Α. times. 20 21 Q. And over what period of time are we talking about? 22 23 Α. Ten years. 24 Q. How many of those were Ohio cases?

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24 Well, I have, I'm guessing on this now. 1 Α. Q. Do you keep records of --2 3 Α. No, no, I do not. Probably half of them, I guess. 4 Q. Do you know the names of the lawyers 5 that have taken your deposition? 6 No, I don't recall. 7 Α. Q . Of these ten times that you've been 8 deposed, are any of those cases similar to the 9 10 Dunigan case? Well, I'm not quite sure what you mean 11 Α. by similar to, regarding infections in the 12 Would that be a similar situation to you, 13 spine? 14 or does it have to be specifically an infection 15 in the cervical spine? Or are we, is just any infection a similar case, I'm not guite sure how 16 you're limiting similar. 17Q. I didn't intend to limit it. 18 I quess 19 if you think it's similar, then I think it's 2.0 similar, I quess, is the answer to that question. 21 Well, there is one specific case that I 22 Α. can recall that did involve infection of the 23 spine. It was not the cervical spine, it was the 24

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25 lumbar spine. 1 Q. 2 Okay. I don't recall a specific case in the 3 Α. cervical area. 4 Ο. 5 Well, was that the only case involving an infection? б 7 Α. No, no, it's not the only case involving an infection, the other one that comes 8 9 to my mind was an infection in the brain. Т don't recall any other specific ones dealing with 10 infection. 11 Q, When was your deposition taken in this 12 one case that dealt with infection in the spine? 13 14 Α. Actually I, I was a live witness in 15 court on that one, and that was probably three years ago. 16 17 Q. Do you know the name of the case? No, that was down in Louisiana. 18 Α. 19 Q. Do you remember the name of the 20 plaintiff's attorney? 21 Incidently I was testifying for Α. No. the plaintiff in that case. 22 Q. You don't remember the name of the 23 person that retained you in that case? 24

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26 No, he's an attorney in Louisiana and Α. 1 I, I do not recall his name. 2 ο. Okay. Have you ever been retained as 3 an expert by Mr. Lodico or a member of his firm 4 before this? 5 Well, honestly I don't remember. I Α. б 7 don't think so. MR. LODICO: I've never met him before 8 today. 9 Have I? Α. 10 MR. LODICO: 1 never met you before 11 today. 12 Yes, I don't think I've been -- I don't 13 Α. believe so, no. 14 Q. How about for Mr. Davis or Mr. Earl. 15 16 have you ever been retained by them or anybody in 17 their firm? 18 Α. Not to my knowledge, no. 19 Q. Okay. Do you know why it is that you were retained in this case? 20 21 Α. No. I do not. Who were you contacted by? 22 Q. 23 Mr. Lodico. Α. 24 Q. What did he ask you to do?

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27 Α. Review some records and some 1 2 depositions. Q. All right. What did you review in this 3 4 case? What did I, what have I reviewed? Α. 5 Q. Yes. б A deposition of Dr. Sadar, S A D A R. 7 Α. Let's see, a deposition of a Dr. Scharer, S C H A 8 R E R, some hospital records. 9 Q. Well, what hospital records? 10 Well, let's see, Mount Carmel Medical 11 Α. Center, I believe these are all from Mount Carmel 12 Medical Center, and a deposition of Dr. Smith. 13 Ι 14 believe those are the only materials that I have reviewed. 15 16 Q. Okay. That's your complete file that 17 you're holding in your hand right now? That's the complete file that was sent Α. 18 to me by Mr. Lodico, yes. 19 20 Q. Well, is there something else? There are other things that I have Α. 21 22 added to the file by way of some research of my own and the literature, but I thought you were 2.3 asking me what Mr. Lodico had asked me to review. 24

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28 Q . Okay. Could I take a look at this? 1 2 Α. Yes. MR. EARL: Pass that CV over, will 3 4 you? Q. Why don't you mark this, just the 5 folder. б 7 Α. You're not going to take that. Q. We're just going to mark it now. 8 9 Α. Yes, but you're not going to take it. Q. All right. Doctor, I'm handing you 10 what's been marked as Exhibit 2, would you 11 identify that for the record? 12 Yes, this is my file concerning this 13 Α. 14 matter. 15 Q. Okay. That's your entire file, everything you reviewed in this matter? 16 That's correct. 17 Α. Q. Okay. I know I asked you this before, 18 but I forgot your answer. What is it that you 19 were asked to do in this case? 20 21 Α. Specifically to review the records and 22 give an opinion as to whether there was any relationship between the accident which had 23 24 occurred in May of 1988, and the subsequent

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29 infection that occurred in the spine. 1 2 Q. Okay. When were you contacted in this 3 case? Well, I quess in June of 1990 was the Α. 4 5 first, first correspondence that I had from Mr. Lodico. б Q. 7 Okay. And you were not asked to formulate an opinion as to whether or not any of 8 the other defendants fell below the standard of 9 care required of them, that would be a fair 10 statement? 11 12 Α. No, no, that was not a specific 13 request, no. 14 Q. Okay. And then you did, there's a copy 15 of your report in the file, isn't there? 16 Α. I'm sorry? MR. LODICO: Your letter to me. 17 Q. 18 Your letter, yes. 19 My letter, yes. Α. 20 Q. Okay. And that's dated January 31st, 1991? 21 22 Α. That's correct. And you -- well, from looking through 23 Q. your file, I got the impression that you 24

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formulated an opinion in this case that there was 1 2 no causal relationship between the accident and Mr. Dunigan's subsequent outcome prior to 3 4 reviewing Dr. Scharer's deposition; is that true? 5 Α. I believe that's correct, yes. 6 Q. Okay. Well, you authored this report after reviewing Dr. Scharer's deposition, is 7 that --8 That's correct. 9 Α. Q. Okay. How many epidural infections in 10 the cervical area have you treated in your 11 12practice? I would guess probably between five and Α. 13 14 ten. Did any of those occur after trauma? 15 Q. Not to my knowledge, no. 16 Α. Q. Despite not being asked to do so, did 17 you formulate any opinions regarding the other 18 defendants in this case? 19 20 No, not really. I didn't review it Α. from that standpoint. 2.1 22 Q. Okay. And did you formulate any opinions regarding what Mr. Dunigan's eventual 23 outcome would have been if he hadn't subluxed? 24

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31 Well, I think it was the subluxation Α. 1 that caused his neurologic deterioration, his 2 deficit. If he hadn't subluxed, one would have 3 to conclude that he would not have had that 4 5 deterioration. Q. Okay. Can you point me to some medical 6 7 literature that supports the position that you 8 stated in your report? Well, which opinion are you asking 9 Α. about? The lack of a relationship between the 10 trauma and the, and the infection, is that the 11 12 opinion that you're asking about? Well, that is, yes. That's the opinion Q. 13 14 I was asking about. Well, I think the literature that I 15 Α. have referred to in this report to Mr. Lodico 16 17 supports that. 18 Q. All right. And this is the same literature that Dr. Scharer cited in his 19 20 deposition? 21 Well, one of them is, yes. Α. Q. Okay. Other than that, though, you 22 23 can't cite me any literature? 24 Α. Well, those are the, probably the most

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extensive ones that deal with epidural 1 infections, and specifically the more recent one, 2 1975, which is probably the most extensive of the 3 recent ones dealing with that problem. 4 Q. All right. That's the one by Baker? 5 Α. That's correct, yes. 6 Q. Did you ask to review any other records 7 in this case? 8 Α. 9 No. 10 MR. LODICO: What was your last question, Chris? 11 12 Q. Did he ask to review any other records in this case. 13 14 MR. LODICO: Okay. 15 Q. What do you charge, or what are you charging in this case for your time? 16 I have a little, I have a different 17 Α. rate that I charge for reviewing records from 18 what I charge for depositions. My charge for 19 deposition is \$400 an hour. I don't recall quite 20 frankly what I charged for review of the records, 21 but it was less than that. 22 Q . 23 Okay. You don't have a set charge in cases? 2.4

Well, I think that at the time that I Α. 1 reviewed these, my charge was less than it is 2 now, and that's why I think, my guess is it was 3 in the neighborhood of 250, 300. 4 Q . I think there's a note in there that 5 you have two hours, \$500. 6 7 Α. Okay. So that's what I was saying, 8 \$250 an hour. Q. 9 Is that your same rate today? 10 Α. No, no, I think my rate today is 300 or 350, I forget quite honestly. 11 12 Q. And that's for reviewing records? 13 Α. That's correct. Q. Okay. And your charge today I take it 14 15 is \$400 for the deposition? Per hour. 16 Α. 17 Q. Per hour, right. How much do you 18 charge for testifying at trial? Α. Well, I don't make a distinction 19 between that and deposition. Obviously 20 testifying at trial requires more time because of 21 transportation to and from the trial, but as far 22 23 as the -- I don't have a set rate for that. Τf 24 it's something locally in Hamilton County, I'll

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34 just figure it on the basis of portal to portal 1 so to speak, my time. 2 How about if it's in Columbus? Ο. 3 Α. I think I will still consider it portal 4 5 to portal. Okay. You charge \$400 an hour, portal Q. 6 7 to portal? I believe that's correct. Α. I have, 8 9 really this has not come up in my experience, so I, I don't have -- just off the top of my head, I 10 think that would be reasonable, yes. 11 Q. Okay. Are you intending to testify 12live at this trial? 13 14 Α. I have been requested to, and I think if it's, if it's at all possible I will. 15 Q. Okay. 16 MR. LODICO: He's given me a time when 17he can be there during the trial week, so I hope 18 he's going to be there live. 19 Q. Okay. The second to the last sentence 20 21 on page one of your report talked about, it says, particularly since his symptoms subsided between 22 the time of the trauma and the onset of his 23 24 infections. What symptoms are you talking about?

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35 Α. Well, symptoms of his cervical injury, 1 injury to the cervical spine. 2 Did his infections or symptoms of Ο, 3 infection subside during that time period? 4 MR. LODICO: Objection. 5 There's no evidence there was any symptoms of infection 6 during that period of time. 7 What, yes, that's why I didn't 8 Α. understand the question. 9 Q. Okay. You don't know about any 10 infections he had during that time? 11 MR. LODICO: Oh, infections, okay. 12Α. He had the dermatitis problem, but not 13 in the cervical spine. 14 So he did have infections during that 15 Ο. time period? 16 He had, he had a chronic dermatitis 17 Α. with infection. Whether he had, I can't tell you 18 exactly when that was, but apparently that was a 19 chronic problem that he had. 20 Q. Well, do you know if he had it between 21 22 the time of the accident and the time he was 23 hospitalized? 2.4 A. Oh, I think he did, yes.

36 ο. Did he? 1 2 Α. Yes, he had a chest wall and lung infection. 3 Q. Okav. Did those ever subside in 4 between the time he was, had the accident and he 5 was hospitalized? 6 7 Α. I don't recall specifically whether the condition of those infections did. 8 Q. If there's chronic infection and injury 9 to the disc space, can't the infection invade the 10 disc space? 11 12 MR. EARL: I'm sorry, what was that question? 13 His question was whether, if there's a 14 Α. chronic infection and an injury to a disc space, 15 16 can the infection invade the disc space. There 17 has been speculation about that in medical literature, but there is nothing to support 18 19 that. And in my, to the best of my knowledge, 2.0 there's nothing to support it, although it certainly has been speculated about. 21 22 Q. Well, what medical literature? 23 Α. Well, in all medical literature that has to do with infection, there is always the 24

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speculation as to whether trauma may have played 1 a role, but there is nothing to support it. 2 There has been nothing over the many years to 3 support that, and it is similar to the 4 speculation that occurs as to whether trauma can 5 6 induce cancer. And there is, again there's 7 nothing to support the concept that trauma 8 induces cancer, but you find that in the literature as a point of speculation not 9 infrequently. I think the opinion of the 10 majority of physicians who are working in the 11 area feel that there is no relationship. 12 13 Q. Well, define what you mean by speculation for me. 14 Well, for example, in these articles 15 Α. that were, that -- in fact, in the article that 16 Dr. Scharer cited, to quote that article --17 18 Q. Are you reading from the Baker article 19 now? No, I'm reading from the article that 20 Α. Dr. Scharer --21 Q. The human index? 2.2 23 I'm sorry? Α. 24 Q. What are you reading from?

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38 It's a chapter from Yoman's text by Dr. Α. 1 2 Carey. Q. 3 Okay. Trauma to the spine occurring just 4 Α. 5 before the onset of symptoms has been reported in 10 to 40 percent of patients, but its б significance is difficult to assess unless small, 7 clinically insignificant trauma epidurally, 8 subsequently becomes colonized with bacteria. 9 In other words, well, that's what I'm talking about, 10 speculation. The question is raised, but no one 11 has ever been able to document it. 12Well, can chronic skin infections lead Q . 13 to episodes of bacterium? 14 Episodes of? 15 Α. 16 Q. Bacteriemia. 17 Α. Oh, sure. Q. And can cervical osteomyelitis be 18 associated with disc space infection? 19 20 Α. Sure. And can Mr. Dunigan have, he did have a 21 Q. 22 disc injury from that accident? 23 Α. No, I did not know that. Well, you said he had --Q. 2.4

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39 Α. He had a cervical spine injury, that's 1 2 not the same as a disc injury. Well, do you have an opinion as to 3 Q . whether or not he had a disc injury? 4 5 Α. I don't believe he did from what I saw. Q. What are you basing that on? 6 7 Α. This review of the records, that he essentially recovered from the symptoms that he 8 had, basically that would be it. 9 10 Q. What if his cervical symptoms continued up until the time he was hospitalized, would that 11 12 change your opinion as to whether or not he had a disc injury? 13 Α. No, no, it would not. 14 Ο, You would still think that he didn't 15 have a disc injury? 16 17 Α. That's correct. 18 Q. Well, based on the fact that his 19 symptoms subsided --20 Well, that would be one indication; the Α. second is, I've never seen a disc injury from 21 22 that kind of accident. 23 Q. So if you've never seen it, it can't happen? 24

40 Α. I didn't say that, I said in 40 years 1 2 of practice, I've never seen one. Okay. Well, is there -- strike that. 3 Q. Can discitis and osteomyelitis culminate in 4 5 epidural abscess? Α. Sure. 6 7 Q. And you don't believe that if he had chronic problems after the accident with his 8 neck, that that has any significance in this 9 10 case? Α. If he had trauma? 11 Q. 12 Chronic problems with his neck. No, no. 13 Α. Q. And why not? 14 For the reasons that I have indicated, 15 Α. I've never seen a disc injury from this kind of 16 accident, his symptoms that he had were not those 17 of a disc injury. The symptoms were, to the best 18 of my recollection, were purely involving the 19 20 neck, did not involve evidence of a disc 21 herniation or pressing on nerves and that sort of 22 thing that one would expect with a disc injury. 23 Q. And if he had an infectious problem from the time of the accident up until the time 24

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41 he was hospitalized, you don't find that 1 significant either? 2 Significant in what regard? 3 Α. Q. In terms of determining whether or not 4 the accident is related to --5 Well, I don't, I don't think that --Α. 6 it's not significant in terms of the relationship 7 8 of the accident to the subsequent infection. The infection of the skin was certainly related to it 9 10 in my judgement. Q. How so? 11 12 Through the bacteriemia that you Α. 13 mentioned. Q. Okay. How did the infection enter the 14 15 disc space? If there's a bacteriemia, a blood 16 Α. stream infection, the infection can go to 17 18 anyplace in the body. Q. Is the disc space a likely place for it 19 20 to go? 21 It's not a likely place, but it Α. 22 certainly is one of the places that it does go, we've seen this any number of times. 23 24 Q. Well, did it go anywhere else into the

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42 body besides the disc space? 1 Α. There was some question about **a** lung 2 3 infection, and I'm not quite sure whether that was secondary to his chest infection or not, but 4 I don't know. I don't know of anyplace else. 5 Q. All right. In these cases where it 6 7 does go to the disc space, does it go somewhere else in addition? 8 Α. Not necessarily, no. 9 Q . Well, how many cases have you seen 10 where it's only been to the disc space and 11 12nowhere else? Α. Oh, quite a few. I mentioned about, 13 14 that I've probably seen between five and ten in 15 the cervical area, and in other areas of the spine, you know, it would probably be in the 16 17 neighborhood of 25 or 30 cases that I've seen. 18 Q. That seated only in the disc space and nowhere else in the body? 19 2.0 Α. And the epidural space, yes. I might mention that the, that the case that I testified, 21that I told you that I testified on in Louisiana 22 was exactly that same problem. 23 Q. 24 What problem is that?

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43 An epidural infection from a, actually Α. 1 from an infection in the leq. I would also, I 2 might add that the article that I've pointed out 3 to you in my bibliography, I think it was number 4 43, deals with that specific problem, about 5 infections in the spine, that they are the result б of bacteriemias. 7 Q . Is it fair to say that less than 15 8 percent of your neurosurgical practice involves 9 10 trauma? 15 percent of, less than 15 percent of 11 Α. 12 my practice at the present time? Q. Yes. 13 At the present time it is less than 15 14 Α. percent. In the, up until the time that I slowed 15 16 down practice, approximately three years ago, it 17 constituted probably over half of my practice, or at least half of it. 18 Q. 19 And the area now that you're most involved with is pediatric neurosurgery? 20 21 No, no, that's not true. Α. I've just, 22 part of the mechanism of slowing down practice is 23 to reduce trauma, and so I have reduced trauma both in pediatric and in adults, but I still do 24

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44 both pediatric and neurosurgical, pediatric and 1 2 adult neurosurgery, but I have slowed down on the 3 trauma. Q. Well, how much of your practice is 4 5 pediatric neurosurgery? 6 Α. At the present time? Q. 7 Yes. Between a third and a half. Α. 8 Q. How else do you spend your professional 9 time, other than the practice of law and the 10 practice of neurosurgery and acting as an expert 11 witness in medical-legal cases? 12 How do I spend it? 13 Α. Q. Yes. 14 15 Α. I see patients in the office here two 16 days a week, I operate. 17 Q. I think you misunderstood my question. Oh, what did you ask? 18 Α. 19 Q. I asked you how do you -- well, maybe I should, maybe I didn't ask it very well, let me 20 try it again. 21 22 Α. Okay. Do you spend your time professionally 23 0. in any other manner other than the practice of 24

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4 5 law, the practice of neurosurgery, and acting as 1 an expert witness in medical-legal cases? 2 MR. LODICO: Do vou understand his 3 question, Doctor? 4 5 Α. Well, up to the last point about the expert witness. That's **a** very small part of my б 7 practice, sir. Q. Well, I'm not, I'm just --8 And I do independent medical 9 Α. examinations. I do second opinion examinations, 10 consultations, independent medical examinations 11 for Workman's Compensation, for example, or for 12 Crippled Children's programs, so I'm not quite 13 14 sure what you're asking. I do a number of activities relating to my field of neurosurgery, 15 and being an expert witness in the malpractice 16 case is an infinitesimal part of it. 17 0. I think you're reading something into 18 19 my question that I'm not asking. 2.0 Α. Well, your question was how do I spend 21 it other than in neurosurgery or the law practice 22 or being an expert witness. Yes, those --23 Q. 24 I guess in reading it, the answer is, Α.

46 an expert witness is part of the medical practice 1 2 because I do that as a physician, just as I see on consultation. That's what I was trying to 3 explain, just as I see, doing second opinions and 4 independent medical examinations as a physician, 5 and so I'm either a physician or a lawyer and I 6 7 don't do anything else. Q. Okay. 8 Α. Does that answer the question? 9 10 MR. EARL: Yes, it does, me being an 11 impartial observer. Well, I don't know how impartial, I Q. 12wouldn't agree to the fact that you're 13 impartial. 14 15 Α. I'll try again to answer the question. 16 MR. LODICO: The question, Doctor, was 17 professionally do you --Q. I'll ask another question. 18 Α. 19 Okay. 20 MR. LODICO: Okay. Q. 21 You don't consider acting as a 22 professional witness --23 MR. LODICO: Objection, he's never said 24 that he was a professional witness.

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1 Q. I'm sorry, I didn't mean to say that, I'm sorry. Acting as an expert witness in 2 medical-legal cases is not clinical practice of 3 medicine? 4 Α. It is not clinical practice of 5 medicine, but it is certainly included in the 6 practice of medicine. 7 I understand what you're saying. Ο. 8 What 9 about the independent medical examinations that you do, is that clinical practice? 10 Not in the strict sense, no. It's not 11 Α. clinical practice in the strict sense of the 12word. 13 ο. What about second opinions? 1415 Well, that's sort of on the borderline Α. 16 of clinical practice because there is, there you're giving a recommendation regarding 17 treatment, and to that extent, it is clinical. 18 19 In an independent medical examination, of course you, one is not rendering an opinion about 2.0 21 treatment, but only about a condition of the individual. 2.2 Q. 23 Okay. 24 When one gets into a second opinion Α.

48 area, you are expected to make a recommendation 1 about treatment, so that in a sense is clinical. 2 Q. Okay. How much time do you spend doing 3 independent medical exams, how many hours a week? 4 About two, two-and-a-half maybe. 5 Α. Q. Okay. And what were the, some of the 6 other things you were telling me that you do? 7 Α. Well, I said I see, I do independent 8 9 medical exams for various agencies other than attorneys and so on. You know, an insurance 10 company may ask me to do an independent medical 11 exam, Crippled Children's may ask me to do it, 12 13 Workman's Compensation may ask me to do it. Well, would that be all the Q. 14 two-and-a-half hours a week? 15 16 Α. Yes. What else do you do in your 17Q. Okay. professional capacity that's not the clinical 18 practice of medicine, not counting being a lawyer 19 20 and the things we've already talked about? Now, wait a minute, in my clinical 21 Α. 22 practice? 23 Q. No, as a physician. 24 Α. Yes.

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49 That you do that doesn't involve the Q . 1 clinical practice. 2 Well, I'm involved in various national 3 Α. societies and do committee work and things of 4 5 that sort in medicine, and hospital committees, that sort of activity. 6 Q. How many hours a week do you spend 7 doing that? 8 Well, again I'm just sort of trying to Α. 9 estimate an average, maybe three or four hours a 10 11 week perhaps. Q. Anything else you can think of? 12 Okav. No, not that I can think of. 13 Α. 14 Q. Okay. 15 I attend meetings, of course. Α. Т 16 attend --Q. You're talking about the hospital? 17 What? 18 Α. 19 Q. At the hospital? 20 Well, and also national meetings and so Α. 21 on. 22 Q. That would be part of what you were telling me though as far as professional 23 societies? 24

Yes, that's -- well, I attend meetings Α. 1 as well as participate in committee work that one 2 does in between the meetings. 3 Q. Okay. Do you know Dr. Smith? 4 No, I do not. 5 Α. Q . How about Dr. Sadar? 6 7 I know who, I know of Dr. Sadar. Α. Ι probably have met him, but I don't know, I don't 8 know him personally though. 9 Q. 10 Okay. Did you make any other notes, other than that one yellow sheet in your file? 11 12Α. No. Do you hold any other opinions that are Q. 13 relevant to this lawsuit that aren't in your 14 report, that we haven't talked about today? 15I don't believe so. 16 Α. 17 MR. MELLINO: Okay. I don't have any other questions for you, Doctor. 18 CROSS-EXAMINATION 19 BY MR. DAVIS: 2.0 Dr. McLaurin, my name is Bill Davis, I 21 Q. represent Dr. Smith in this case and I just have 22 one point of clarification that I wanted to ask 23 24 you.

51 Α. Okay. 1 You've already testified that your 2 Q. function as a consultant in this case, when you 3 were contacted by Mr. Lodico, was purely to 4 5 review the case with an eye towards arriving at an opinion as to whether or not any causal б relationship existed between the automobile 7 accident and this man's subluxation; is that 8 correct? 9 10 Α. Yes, that's correct. 11 MR. LODICO: Just for point of clarification, it was more of a causal 12 relationship between the automobile accident and 13 the abscess. 14 And the infection. 15 Α. Q. I'm sorry, thank you, thank you if I 16 misspoke. With that proviso, and I understand 17 that because you stated that you were not 18 retained to examine the case in terms of 19 rendering an opinion as to the care that was 20 rendered by the hospital or the doctors, but with 21 22 that proviso, when you reviewed the records that you did review in this case, during the course of 23 that review, did you come to any criticisms of 2.4

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52 the care rendered by Dr. Smith? 1 MR. MELLINO: Objection. 2 I don't recall that I did, sir, no. 3 Α. MR. DAVIS: Thank you, that's all I 4 5 have. CROSS-EXAMINATION б BY MR. EARL: 7 8 Q. Doctor, in your review of the medical chart of Mount Carmel, did you come to any 9 criticism of the care rendered by Mount Carmel? 10 11 MR. MELLINO: Objection. No. 12 Α. 13 MR. EARL: That's all. 14 MR. LODICO: He'll read it. 15 16 17 ROBERT L. MCLAURIN, MD 18 \_ \_ 19 20 (Deposition concluded at 6:40 p.m.) 21 22 (Plaintiff's Exhibit 2 retained by Dr. McLaurin) 23 24

53 CERTIFICATE 1 2 STATE OF OHIO: ss:COUNTY OF HAMILTON: 3 I, Lee Ann Berry, a duly qualified and 4 commissioned notary public in and for the State 5 of Ohio, do hereby certify that prior to the 6 giving of his deposition, the within named ROBERT 7 L. MCLAURIN, MD was by me first duly sworn to 8 testify the truth, the whole truth and nothing 9 but the truth; that the foregoing pages 10 constitute a true and correct transcript of 11 12testimony given at said time and place by said deponent; that said deposition was taken by me in 13 stenotypy and transcribed under my supervision; 14 that I am neither a relative of nor attorney for 15any of the parties to this litigation, nor 16 relative of nor employee of any of their counsel, 17 and have no interest whatsoever in the result of 18 this litigation. 19 IN WITNESS WHEREOF, I hereunto set my 20 hand and official seal of office at Cincinnati, 2.1 Ohio this 🔵 day of 1991. 22 23 MY COMMISSION EXPIRES: 24 AUGUST 5, 1994 ĽΈΕ BERRY ANN NOTARY PUBLIC-STATE OF ÓHÍO

#### CURRICULUM VITAE

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### ROBERT LOVE MCLAURIN, M.D.

Place of Birth:Dallas, TexasDate of Birth: January 5, 1922Father's Name:John McLaurin (deceased)Mother's Name: Lucy Coke McLaurin (deceased)Children:5Home Address:415 Bond Place, # 9-D, Cincinnati, Ohio 45206Office Address:111 Wellington Place, Cincinnati, Ohio 45219

## Education

| Institution and Location   | D'øree_      | Year Conferred                                  |
|--|--------------|---|
| Rice Institute, Houston, Texas<br>Harvard Medical School, Boston Mass.<br>Peter Bent Brigham Hospital, Boston, Mass.<br>Medical Intern   | B.A.<br>M.D. | <i>1944</i><br><i>1944</i><br>10/01/44-07/01/45 |
| Peter Bent Brigham Hospital, Boston, Mass.<br>Surgical Intern  |              | 03/15/47-07/01/47                               |
| New Haven Hospital, Hartford, Conn. and<br>Hartford Hospital, Hartford, Conn.<br>Neurosurgical Residency   |              | 07/01/47-07/01/50                               |
| Peter Bent Brigham Hospital, Boston, Mass.<br>The Childrkn's Hospital, Boston Mass.<br>Neurosurgical Residency   | and          | 07/01/50-07/01/51                               |
| Peter Bent Brigham Hospital, Boston Mass.<br>The Children's Hospital, Boston, Mass.<br>Research Fellow in Neurosurgery   | and          | 07/01/51-07/01/53                               |
| University of Cincinnati, College of Law   | J.D.         | 1990  |
| Teaching Appointments  |              |   |
| Harvard Medical School, Boston, Mass.<br>Ass't in Surgery  |              | <i>07/01</i> /51-07/01/53                       |
| University of Cincinnati, Cincinnati, Ohio<br>Instructor, Neurosurgery   |              | 08/01/53-09/01/54                               |
| University of Cincinnati, Cincinnati, Ohio<br>Ass't Prof. of Surgery (Neurosurgery)<br>University of Cincinnati, Cincinnati, Ohio<br>Acting Director, Division of Neurosurgery<br>University of Cincinnati, Cincinnati, Ohio<br>Director, Division of Neurosurgery<br>University of Cincinnati, Cincinnati, Ohio<br>Assoc. Prof. of Surgery (Neurosurgery) |              | 09/01/54-09/01/57                               |
|  |              | 09/01/54-09/01/55                               |
|  |              | 09/01/55-1982                                   |
|  |              | 09/01/57-09/01/64                               |
| University of Cincinnati, Cincinnati, Ohio<br>Professor of Surgery (Neurosurgery)  |              | 09/01/64-                                       |



#### Hospital Appointments

| Peter Brigham Hospital, Boston, Mass.               | 07/01/51-07/01/53 |
|---|-------------------|
| Ass't in Surgery                                    |                   |
| Children's Hospital, Cincinnati, Ohio               | 08/01/53-         |
| Attending Staff and Director                        |                   |
| Division of Neurosurgery (since 1954)               |                   |
| Cincinnati General Hospital, Cincinnati, Ohio       | 08/01/53-         |
| Attending Staff and Director                        |                   |
| Division of Neurosurgery (since 1954)               |                   |
| Our Lady of Mercy Hospital, Cincinnati, Ohio        | 08/01/53-         |
| Attending Staff and Consultant                      |                   |
| Good Samaritan Hospital, Cincinnati, Ohio           | 08/01/53-         |
| Attending Staff                                     |                   |
| Bethesda Hospital, Cincinnati, Ohio                 | 10/01/53-         |
| Courtesy Staff                                      |                   |
| Veteran's Administration Hospital, Cincinnati, Ohio | 10/01/53-         |
| Consultant  |                   |
| Christ Hospital, Cincinnati, Ohio                   | 09/01/57-         |
| Courtesy Staff and Consultant                       |                   |
| Jewish Hospital, Cincinnati, Ohio                   | 04/01/59-         |
| Courtesy Staff and Consultant                       |                   |

### Professional Organizations

American Association of Neurological Surgeons Program Committee - 1967-69 Annual Meeting Chairman - 1970 Vice President - 1980 The Congress of Neurological Surgeons The American Academy of Neurological Surgeons Secretary-Treasurer - 1958-62 President - 1972 Society of Neurological Surgeons Treasurer - 1971-76 Vice President - 1981 Section of Pediatric Neurosurgery of theAmerican Association of Neurological Surgeons Chairman - 1971 American Neurological Association The Society of British Neurological Surgeons (Honorary) Association for Research in Nervous and Mental Diseases Society for Neuroscience American Medical Association American College of Surgeons American Trauma Society The Society for Research in Spina Bifida and Hydrocephalus Ohio State Medical Association Ohio State Neurosurgical Association President - 1982 The Mont Reid Surgical Society Academy of Medicine of Cincinnati Cincinnati Society of Neurology and Psychiatry President -1957-58

# **Professional Organizations**

(cont)

Cincinnati Society of Neurology and Neurosurgery President - 1979-82 American Board of Neurological Surgery - 1976-81 International Society of Pediatric Neurosurgery American Society of Pediatric Neurosurgery

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## Honorary Organizations

Alpha Omega Alpha The Society of Sigma Xi

## Board Certification

The American Board of Neurological Surgery - 1954

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