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| 2 | COUNTY OF CUYAHOGA | 7)) | ORIGINAL | | | |
| 3 | C | COURT OF COMM | ION PLEAS | | | |
| 4 | KIMBERLY RICHLEY, |) | | | | |
| 5 | Plainti | .ff,) | | | | |
| 6 | vs. |)) | Case No. CV-03-511510 | | | |
| 7 8 | REICHENBACH FAMILY CHIROPRACTIC PROFE COMPANY, et al., | , |) Judge Carolyn Friedland)) | | | |
| 9 |) Defendants.) | | | | | |
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| 13 | DEPOSITION | OF PATRICK W | N. MCCORMICK, M.D. | | | |
| 14 | | | | | | |
| 15 | DATE: | September 24 | l, 2004 at 5:00 p.m. | | | |
| 16 17 | PLACE: | St. Luke's H 5901 Monclov Maumee, Ohio | ra Road | | | |
| 18 | REPORTER: | | cheid, Jr., RPR | | | |
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PATRICK W. McCORMICK, M.D., 1 a Witness herein, called by the Plaintiff as if upon 2 Examination, was by me first duly sworn, as 3 hereinafter certified, deposed and said as follows: 4 EXAMINATION 5 6 BY MR. RUF: Could you state your name, please? 7 Ο. Patrick William McCormick. Α. 8 Dr. McCormick, my name is Mark Ruf. 9 Q . Ι represent Kim Richley. If at any time during this 10 deposition you do not understand a question, please 11 tell me. If you give me an answer, I'll assume you 12 13 understood the question. Okay? Fine. Α. 14 Also, when I ask you a question, please 15 Ο. give me a direct answer to the question. If you give 16 17 me an evasive answer or a nonresponsive question, I'm going to ask my question again. Okay? 18 Sounds fair. Ά. 19 So this will go faster if you give me 20 Ο. 21 direct answers to my questions. Okav? Sounds fine. 22 Α. It appears from your CV that your 23 Ο. concentration is in vascular neurosurgery? 24

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1 Α. It is. Is that your specialty? 2 Ο. Well, my specialty is neurological 3 Α. surgery. I did subspecialty training in 4 cerebrovascular neurological surgery. 5 What percentage of your practice is 6 Ο. vascular neurosurgery? 7 Well, I'm in the general practice of 8 Α. neurosurgery. And I'd say perhaps 10 percent of my 9 practice is vascular work. 10 And what's the remainder of your 11 Ο. practice? 12 General neurosurgery, such as cervical 13 Α. spine, lumbar spine, trauma, brain tumors, 14 hydrocephalus. 15 Would you agree that none of your 16 Ο. 17 publications relate to the issues in the Richley case? I haven't thumbed through a list of 18 Α. publications, but none of them, to my recollection, 19 would touch on those issues. 20 You have not published or lectured on the 21 Q. injury that Kim Richley sustained, correct? 22 Again, to the best of my recollection, 23 Α. there's nothing in my CV regarding these issues. 24

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And you've not published or lectured on Ο. 1 the surgery that was performed on Kim Richley, 2 3 correct? Α. Same answer. 4 So the answer would be yes? I mean, if 5 Ο. you want, you can look through your CV. 6 What I'm saying is, when you ask me if 7 Α. I've ever lectured on the topic, let's say, of spine 8 trauma, I'm sure I have. Whether there's anything 9 captured in my CV, I don't recollect anything there 10 that would reflect on that. 11 Well, have you published on the surgery 12 Ο. that was performed on Kim Richley? 13 No, I have not published on the surgery 14 Α. performed on Kim Richley. 15 And have you lectured on the surgery that 16 Ο. was performed on Kim Richley? 17 Well, I'm involved in a teaching program 18 Α. 19 with the residents at St. Vincent's Mercy Medical Center and I give a number of lectures on trauma and 20 cervical spine trauma. So I'm certain that I've 21 lectured on it many times, but nothing that I've 22 included in my CV. 23 24 Q. I noticed in the records that you have,

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that you had a meeting at 5:00 p.m. June 24th with 1 Attorney Regnier; is that correct? 2 I certainly had a meeting with him. Τ 3 Α. couldn't testify to the date. 4 Let me show you, there's a letter of June 5 Ο. 8, 2004. It's the second page. Would you agree it 6 refers to a meeting at 5:00 p.m. June 24? 7 Α. It does. 8 Do you know how long that meeting was? 9 Ο. Half hour to an hour. Α. 10 Do you know what the purpose of the 11 Q. 12 meeting was? We discussed the case. 13 Α. Did you review any materials at that 14 Ο. Did you have the meeting before you reviewed 15 time? materials or after you reviewed materials? 16 After I reviewed materials. And I don't 17 Α. know that we reviewed anything specifically. I don't 18 have any recollection of that. 19 Do you remember what you discussed in 20 Q. that meeting specifically? 21 I think we discussed the nature of the 22 Α. facts in the case and the type of injury that Mrs. 23 Richley was found to have and what its relationship 24

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would be to chiropractic treatment, issues like that. 1 Did you render any opinions at that time? 2 Ο. I don't know that I did. I created a 3 Α. series of opinions that are in my letter, but I don't 4 know that I created any at that time. 5 Do you know how much time you spent total Ο. 6 reviewing this case and meeting with defense counsel? 7 I don't. 8 Α. Do you know what your total bill has been 9 Ο. on this case? 10 I do not. 11 Α. Could you give me an estimate of what 12 Ο. 13 it's been? I would be purely guessing. I honestly 14 Α. don't know. 15 What do you charge for being involved in 16 0. medical-legal matters? 17 I have a fee schedule. 18 Α. 19 Q. Could I see that, please? (Witness complies.) 20 Α. (Court Reporter marked 21 Plaintiff's Exhibit 1.) 2.2 BY MR. RUF: 23 Okay. Your fee schedule's been marked as 24 Q.

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Q

Plaintiff's Exhibit 1, correct? 1 2 Α. Correct. Can you give me an estimate as to the 3 Ο. amount of time you've spent reviewing this case and 4 forming your opinions? 5 I think you asked me that already. Ι Α. 6 don't have a recollection of the exact time. 7 Well, I asked if you could give me an 8 Ο. I know you said you didn't know the exact 9 estimate. amount of time. I'm asking if you could give me an 10 estimate. 11 I really would be purely guessing. 12 Α. Do you have your time written in bills 13 Ο. that you've sent to Mr. Regnier? 14We certainly have sent invoices along the 15 Α. 16 way. 17 MR. RUF: Would you have a problem producing those, Mike? 18 MR. REGNIER: No. 19 BY MR. RUF: 20 How many years have you been licensed to 21 Ο. practice medicine? 22 23 Α. Since 1984. 24Q. 20 years?

Α. 20 years. 1 Has your license ever been subject to any 2 Q. type of disciplinary action? 3 No. Α. 4 Have you ever been subject to any type of 5 Ο. disciplinary action by a hospital? 6 7 Α. No. Have your privileges ever been revoked at 8 Ο. any hospital? 9 Α. No. 10 Have your privileges ever been suspended 11 Ο. at any hospital? 12 No. 13 Α. Did you comply with the local rule in 14 Q. Cuyahoga County and put all of the opinions that you 15 have in the report that was produced in this case? 16 As far as I know, I have. 17 Α. Are any of the hospitals that you work at 18 Q. a Level 1 trauma center? 19 Yes. 20 Α. What hospitals? Ο. 21 St. Vincent's Mercy Medical Center and 22 Α. 23 the Toledo Hospital. How many times have you been an expert 24 Q.

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witness in legal cases? 1 I don't have an exact answer to that. 2 Α. It'd be my guess that over the past five years or so, 3 I've reviewed somewhere between five and ten cases a 4 5 year. And that's medical malpractice cases? Ο. 6 Yes. 7 Α. So how many have you done in total, 8 Q. 9 approximately? Well, I've done them prior to the last 10 Α. Prior to that, it would just be, you five years. 11 know, one or two a year that would come along. 12 And how long had you done one or two a 13 Ο. 14 year? 15 Α. Probably started that about '95. So in the last five years, you've 16 Ο. reviewed between 25 and 50 medical malpractice cases? 17 Sounds like a lot, but I think that's a Α. 18 19 reasonable range. And before that, you probably had 20 Ο. reviewed less than 10? 21 22 Probably. Α. Have you also served as an expert in 23 Q. automobile accident cases, or other types of auto 24

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accident cases? 1 When they've involved my patients. 2 Α. How many times have you done that? 3 Ο. Oh, gosh, I really don't know. Α. 4 Can you give me an estimate? 5 Ο. You know, it comes up a few times a year, Α. 6 7 slip injuries, automobile accidents, Workers' Comp Probably a half dozen of those kinds of cases 8 issues. a year that I end up being deposed or something. 9 So about a half dozen injury cases per 10Ο. year that you serve as an expert for patients? 11 Only if they're my patients. 12 Α. Have you ever served as an expert for a 13 Ο. plaintiff in a medical malpractice case? 14 T have. 15 Α. How many times have you done that? 16 Ο. I've reviewed about six records. 17 Α. And did you actually render an opinion in 18 Ο. those six cases that a physician deviated from 19 20 accepted medical practice? One of them is up in the air. I've just 21 Α. started to review it. Out of the other five, I 22 thought two were meritorious. Out of those two, one 23 was settled in arbitration. And one, I never heard 24

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another word about. 1 Did you ever write a report? 2 0. No. З Α. The other one that you thought was Ο. 4 meritorious, were you reviewing it for defense 5 counsel? 6 7 For plaintiff's counsel. Α. No. And you told them you thought the case Ο. 8 was meritorious and then you heard nothing else? 9 I presumed that maybe it settled 10 Α. Right. somewhere, but I never heard anything more about it. 11 Do you advertise your services as an 12 Q. 13 expert in any way? 14 Α. No. So approximately what percentage of your 15 Ο. expert review has been for the defense? 16 Oh, 95 percent or something. Just to 17 Α. qualify that, that's referring to the medical-legal 18 work. You know, obviously if you threw in the cases 19 where you had auto accidents and things that involve 20 my patients, that's typically plaintiff's counsel. 21 Okay. Let me ask a more precise 22 0. question. For medical malpractice cases, 23 approximately 95 percent of the reviews have been for 24

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the defense? 1 I think that's a fair estimate, yes. 2 Α. Have you ever served as an expert for 3 Ο. Attorney Regnier before? 4 I believe we have had a prior case 5 Α. together. 6 Do you know what type of case that was? 7 Ο. My recollection is that it involved a 8 Α. subarachnoid hemorrhage. 9 How about his firm, Eastman & Smith? Do 10 Ο. you know any other attorneys at that firm? 11 I do know other attorneys there, yes, but 12 Α. I haven't been involved in any other situations where 13 I was an expert witness for them. 14So you think you've only been an expert 15 Ο. for Mr. Regnier at that firm? 16 I believe that's true. Yes. 17 Α. Have you ever been represented by the law 18 0. firm of Eastman & Smith? 19 20 Α. I have not. Have you been sued for practice? 21 Ο. I have not. 22 Α. As part of your practice, do you hand out 23 Ο. any literature on medical malpractice to your 24

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patients? Some doctors are doing that these days. 1 Are you one of them? 2 I'm not sure I know what you mean. Α. But I 3 don't have any specific literature that I hand out to 4 5 patients. Have you attended any anti-medical Ο. 6 malpractice doctor rallies? 7 No, I have not. 8 Α. Have you ever done anything socially with 9 Ο. Mr. Regnier? 10 11 Α. No, I have not. Have you ever gone out to dinner or lunch 12 Ο. 13 with him? No, I haven't. 14 Α. Have you ever done any work before for 15 Q. Are you familiar with that? It's a NCMIC? 16 chiropractic malpractice insurer. 17 MR. REGNIER: Objection. 18 19 Go ahead and answer. THE WITNESS: No, I never have. 20 BY MR. RUF: 21Have you ever served as an expert on a 22 Ο. chiropractic malpractice case before? 23 I don't believe so. 24 Α.

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Can you tell me approximately how much Ο. 1 money you've made per year serving as an expert 2 witness? 3 Gosh, I really don't know the answer to 4 Α. I mean, I don't think we accounted separately. 5 that. You can't give me some type of estimate? 6 0. Maybe something like \$20,000 or 7 Α. I'm kind of I really don't know. something. 8 9 quessinq. Could you describe for me the 10 Ο. manipulation that was performed by Dr. Reichenbach on 11 Kim Richley on 10/21/02? 12 Well, obviously there's different 13 Α. versions of that story. Dr. Reichenbach has testified 14 that Kimberly was laying on a bed or a treatment table 15 of some type and that he was supporting her head and 16 applied some pressure at the C5-6 level in a modified 17 break-type maneuver. 18 I believe it's Ms. Richley's testimony 19 that she was sitting in a chair upright, as we are 20 sitting now, facing Dr. Reichenbach, and that he sort 21 of held her head between his hands and moved it 22 forward, backwards, and side to side. 23 Is it your understanding that she 24 Q.

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testified that there was a rotary component to his 1 2 manipulation? When I said, "side to side," yes, I 3 Α. meant -- I think what she testified to is that he 4 moved her head forward, then moved her head backwards, 5 then moved her head in a rotational manner to one side 6 and then a rotational manner to the other side. 7 Are you familiar with what a modified 8 Ο. rotary break is? 9 T first heard of it on this case. 10 Δ So you had no independent knowledge of 11 Ο. what a modified rotary break was before this case? 12 That's correct. 13 Α. Have you done any research to determine 14 Q. what a modified rotary break is? 15 16 Α. No. I just relied on the explanation given by Dr. Reichenbach in his testimony. 17 To your knowledge, is that a 18 Ο. high-velocity manipulation? 19 Well, it seems to me that you can do that 20 Α. maneuver with different types of velocity, but the 21 testimony is that it was done with low velocity. 22 Didn't Dr. Reichenbach testify that it is 23 Ο. a guick-impulse manipulation? 24

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Well, I think velocity is one issue and Α. 1 quick impulse is another issue. I believe what he 2 testified to is that he gave a low-velocity force in a 3 short period of time, or on a quick basis, not a 4 sustained basis. But I don't think he describes using 5 velocity. 6 Do you know if a modified break is 7 Ο. referred to as a high-velocity manipulation in the 8 literature? 9 Α. That, I wouldn't be aware of. 10 You haven't reviewed any literature on 11 Ο. modified rotary break, correct? 12 Right. And I'm not holding myself out as 13 Α. an expert witness in chiropractic medicine. 14 As we sit here today, can you tell me the 15 Ο. amount of force that the manipulation exerted on 16 Kimberly Richley's cervical spine, or don't you know? 17 I think I could say that it was a low 18 Α. amount of force consistent with the type of forces 19 that we all experience in our daily life. 20 Did Ms. Richley feel pain after this 21 Ο. manipulation? 22 23 Α. I believe she actually described minimal 24 pain and I think she may have even left the

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chiropractic office feeling better. Although, in 1 retrospect, in her deposition, she describes having 2 some deep achy sensation. 3 If she heard or felt a shattering 4 Ο. sensation in her neck, would that be consistent with a 5 facet fracture at that time? б It would be kind of unusual. I certainly 7 Α. have taken care of many patients with fractured bones. 8 I never heard anybody say that they actually heard the 9 bone fracture. So it seems a little odd. 10 Well, if she had a sensation of a shatter 11 Ο. occurring in her neck, would that be consistent with a 12 facet fracture occurring? 13 I think it's the same answer. All I can Α. 14 say is that when you ask me if it's consistent, I'm 15 somebody who sees people with fractured facets and 16 fractured necks all the time. And I just have never 17 had a patient describe hearing shattering noises in 18 their neck when the bone broke. 19 It's a very small bone and it's very deep 20 in the neck, surrounded by capsular ligaments and 21 heavy muscles. It's kind of implausible that you 22 would hear it break. 23 0. So would a deep soreness or a deep pain 24

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in the neck be consistent with a facet fracture? 1 I think that's certainly -- most facet 2 Α. fractures are acutely painful. One could feel pain. 3 Would a toothache-type pain extending 4 Ο. into the shoulder be consistent with a facet fracture? 5 Well, most people with fractured necks Α. 6 have significant pain, typically right over the area 7 where the fracture is. Toothache pain would seem kind 8 of minimalistic for this type of a fracture. 9 And pain can radiate, although most 10 people do not describe radiation as much as they 11 describe pain right over the broken bone, very similar 12 to a broken bone in the extremity. 13 Based upon your experience, what 14 Ο. sensation do patients have when they sustain a facet 15 fracture? 16 Oh, usually they have onset of acute 17 Α. severe pain. And, you know, they complain bitterly of 18 They typically refuse to move their neck, hold it 19 it. very rigid and stiff. 20 Has it been your experience that the pain 21 Ο. can increase over time? 22 Actually, the pain, in my 23 Ά. No. experience, tends to be maximally severe at the time 24

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of the fracture and then taper off over time. 1 2 ο. Well, have you ever read or heard of a patient's pain increasing over time? 3 From an acute fracture of a facet? 4 Α. Ο. Yes. 5 No. I'd say it would be the opposite. Α. 6 What do you mean by "opposite"? The pain 7 Ο. would be the worst at first and then become less? 8 That's correct. Α. 9 Why do you think that's the situation? 10 Q. Why do I think? Well, first of all, it's 11 Α. my experience in treating these people on a frequent 12 But secondly, it's like any other fractured 13 basis. It's a painful event and it's acutely painful 14 bone. at the time it happens. 15 For whatever reason, as time goes by, 16 even before the fracture is repaired, the symptom does 17 settle down a little bit, the symptom of pain. 18 Although many people do have the stiffness of the neck 19 and they refuse to move it, they hold their heads 20 typically in an awkward posture, they realize 21 something dramatic has happened and typically are 22 seeking care at the time it happens. 23 Are you aware Kim Richley first saw Dr. 24Ο.

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Reichenbach on 10/16/02? 1 I'd have to check that. Α. 2 MR. REGNIER: Are you 3 representing that's when she first saw 4 him? 5 BY MR. RUF: 6 Well, let me ask this question: Do you 7 Ο. agree Dr. Reichenbach took a cervical x-ray of Kim 8 9 Richley on 10/17/02? I'm going to have to check, so just a 10 Α. second. Yes. He has a radiology report in his file 11 dated 10/17/02 on Kim Richley. 12 And you've actually reviewed that x-ray, 1.3 0. 14 correct? 15 I believe I have, yes. Α. Do you agree that the x-ray of 10/17/02 16 Ο. does not show a fracture of Kim Richley's neck? 17 Yes, I agree, I do not see a fracture. 18 Α. 19 Ο. You do not see any fracture in the x-ray of 10/17/02 at the C6-C7 level, correct? 20 I have an AP and a lateral plain 21 Α. Yes. These two films do not show an obvious film. 22 fracture. 23 Would you also agree that neither of the 24 Q.

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films of 10/17/02 show a subluxation at C6-C7? 1 That is correct. 2 Α. Is it your understanding that subluxation 3 Ο. 4 is the same as dislocation? I think, in a general sense, that's a 5 Α. true statement. б So subluxation of C6-C7 and dislocation 7 Ο. of C6-C7 can be used synonymously? 8 Well, "dislocation" would not be a word 9 Α. that's typical in allopathic medicine, but I think 10 they convey the same concept. 11 When we use the word, we're speaking of 12 one of the cervical vertebrae being shifted out of its 13 normal alignment with the bone next to it, and that we 14refer to as a subluxation. "Dislocation" would be a 15 term that probably conveys the same thing but would 16 not be used in typical medical parlance for the neck. 17 Do you agree that on 10/17/02, Kim 18 Ο. Richley had normal range of motion for cervical 19 flexion? 20 Could you repeat the question? 21 Α. Sure. Dr. Reichenbach has a chart on 22 Ο. 10/17 where he recorded range of motion. Are you 23 aware of that? 24

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I'll have to look at it. I do see an 1 Α. office note dated 10/17/02 on a patient Kim Richley 2 with a section called "range of motion." 3 Do you agree that she had full range of 4 Ο. motion for cervical flexion? 5 If I'm understanding his notations 6 Ά. properly, he has a reference number to the left in 7 parentheses. For example, for flexion, it says 60. 8 And then he's recorded in his own handwriting the 9 number 60 next to it. 10 So being unfamiliar with this type of 11 format -- I believe it's a chiropractor format -- if I 12 understand it correctly, those two numbers being the 13 same would imply that it's a normal range of motion 14 15 and flexion. 16 Ο. Would you agree that Kim Richley had normal range of motion for cervical extension? 17 Well, given the same set of issues, I 18 Α. would say yes, because he's got 75 in parentheses and 19 records next to it 75. 20 And she had normal range of motion for 21 Ο. 22 right rotation? A. Again, the same issues. Yes. Both are 23 listed as 45. 24

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Normal range of motion for left rotation? 1 Ο. I would say the same set of issues, he 2 Α. has 45 written in parentheses and handwritten. 3 And she had normal range of motion of Ο. 4 5 right lateral flexion. Correct. 6 Α. And normal range of motion of left 7 Ο. lateral flexion. 8 Assuming I'm interpreting this correctly, Α. 9 that would be correct. 10 So would you agree that, based upon his 11 Q. records, she had normal range of motion in her 12 cervical spine in all directions on 10/17/02? 13 If I'm interpreting this notation Α. 14 properly, yes, I would agree with that. 15 Would you agree that a person with a 16 Ο. facet fracture would not have normal range of motion 17 in all directions of their cervical spine? 18 An acute fracture, they would not. 19 Α. Would you agree that Kimberly Richley had 20 Ο. a normal cervical spine on 10/17/02? 21 MR. REGNIER: Objection. Go 22 ahead, Doctor. 23 THE WITNESS: Well, I mean, 24

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she's seeing a chiropractor for her 1 cervical spine. When you say "normal," I 2 presume you mean the radiographs did not 3 show a fracture and the range of motion, 4 if we're interpreting it correctly, is 5 But obviously she's having some 6 normal. condition that's causing her discomfort. 7 BY MR. RUF: 8 Well, she actually went to see the 9 Ο. chiropractor for low back problems, correct? 10 That was what initiated their treating Α. 11 12 relationship. That's why she was referred there, 13 Ο. correct? 14 That is correct. Α. 15 She was not referred there for cervical Q. 16 17 treatment, correct? Correct. 18 Α. Do you agree that there is no medical 19 Q. evidence that Kimberly Richley had a neck fracture at 20 C6-7 on 10/17/02? 21 22 None that I'm aware of. Α. So would you agree that, based upon 23 Q. reasonable medical certainty, she did not have a neck 24

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| | 20 |
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| 1 | fracture on 10/17/02? |
| 2 | A. I think I would agree with that. |
| 3 | Q. Was there any diagnosis for her neck on |
| 4 | 10/17/02? |
| 5 | A. Well, again, the chiropractor began |
| 6 | treating her neck, because she developed complaints |
| 7 | referencing her neck after their relationship began, |
| 8 | although it did initiate regarding a lumbar spine |
| 9 | problem. I think he was considering the possibility |
| 10 | of a disk problem. |
| 11 | Q. Based upon your review of the records, |
| 12 | would you have a diagnosis for the condition of her |
| 13 | neck on 10/17/02, or would you characterize her neck |
| 14 | as being normal? |
| 15 | A. I think she has a diagnosis. |
| 16 | Q. What's the diagnosis? |
| 17 | A. Well, the diagnosis is, at the minimum, |
| 18 | neck pain. And I think he has a working diagnosis of |
| 19 | a possible disk problem. On that radiology report |
| 20 | that we discussed earlier, he's talking about her |
| 21 | having osteophytes and a flattening of the cervical |
| 22 | lordosis and he's considering an MRI. |
| 23 | His third impression was a vertebral |
| 24 | malposition. So I would say she has, at a minimum, a |
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diagnosis of neck pain. At a maximum, she has three 1 or four diagnoses, including these chiropractic 2 diagnoses, and there's probably a working diagnosis of 3 4 a disk problem. What would your diagnosis be, as a Ο. 5 neurosurgeon reviewing the records? б If I was working this patient up, I think 7 Α. I would probably have a leading diagnosis of neck pain 8 9 and a working diagnosis of probable disk disease. Did she have any radicular symptoms at 10 Ο. that time? 11 Well, she did not present with 12 Α. radiculopathy, no. She had some pain that was midline 13 14 with paraspinal radiation. And if you were seriously considering a 15 Ο. disk problem, wouldn't you be looking for 16 17 radiculopathy? Well, if you were talking about a lateral 18 Α. disk herniation, typically you do get radiculopathy 19 20 with that. But there's obviously many forms of disk disease in the cervical spine. 21 Are you aware of any film before 10/17/02 22 Q. that shows a fracture at C6-7 of Kimberly Richley's 23 24 spine?

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I'm not aware of such a film. 1 Ά. Would you agree that, based upon a 2 0. reasonable medical certainty, Kim Richley did not have 3 a fracture at C6-7 before 10/17/02? 4 Did you not already ask me that question? 5 Α. I asked you on 10/17. I'm now Ο. No. б asking you before 10/17. 7 Is this based on MR. REGNIER: 8 the records you won't produce in this 9 case? 1.0THE WITNESS: I would only 11 qualify my answer by saying in the end, 12 she shows up with a fracture. And it's 13 my opinion that the only way she could 14 obtain a fracture from chiropractic 15 manipulation is if she had a preexisting 16 injury or abnormality of her bone. 17 So that would be the only line 18 of evidence that would support a fracture 19 or an abnormality prior to 10/17/02. 20 BY MR. RUF: 21 Doctor, are you aware of any medical 22 Ο. evidence that supports a fracture prior to 10/17/02 in 23 Kim Richley? 24

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MR. REGNIER: Objection. You 1 refused to produce records prior to that 2 date. 3 Go ahead, Doctor. 4 5 BY MR. RUF: Doctor, are you aware of any medical 6 Ο. evidence? I'm not talking about speculation. 7 I presume by "medical evidence," you mean 8 Α. an x-ray? 9 X-ray, medical record, anything that Ο. 10 would document a preexisting fracture. 11 I've not reviewed any such record. 12 Α. You're not aware of any history 13 Ο. documenting a neck fracture prior to 10/17/02, 14 15 correct? MR. REGNIER: Same objection. 16 Go ahead. 17 THE WITNESS: I think I just 18 testified to that fact. 19 BY MR. RUF: 20 So you would agree you're not aware of 21 Ο. any medical record documenting a fracture prior to 22 10/17/02, correct? 23 MR. REGNIER: Same objection, 24

based on failure to produce preexisting 1 records. 2 Go ahead, Doctor. 3 THE WITNESS: I'm not aware of 4 it, nor have I reviewed it. 5 BY MR. RUF: 6 And you're not aware, in any of the 7 Ο. medical records that you've reviewed, of a history of 8 a neck fracture prior to 10/17/02, correct? 9 In these records, there is no mention of 1.0 Α. a fracture prior to 10/17/02. 11 And are you aware of any trauma prior to 12 Q. 10/17/02 that occurred with respect to Kim Richley 1.3 that could have caused a neck fracture? 14 MR. REGNIER: Same objection. 15 Go ahead, Doctor. 16 I know that she's THE WITNESS: 17 had a seizure disorder, but I'm not aware 18 of any specific episode of trauma, like a 19 20 car accident or anything of that nature. BY MR. RUF: 21 So you're not aware of any trauma prior 22 Ο. to 10/17/02 that could have caused a neck fracture in 23 Kim Richley, correct? 24

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Well, what I'm saying is that trauma Α. 1 comes in many forms. I don't know of any car 2 accidents or falling out of trees or anything like 3 that. You can, of course, fracture a cervical 4 vertebrae during a seizure or something, and we know 5 she had seizures. 6 So there are episodes that could have 7 given rise to a fracture that perhaps would not fall 8 into your definition of "trauma" or perhaps it would. 9 So, Doctor, would you agree that the 10 Ο. answer is no, you're not aware of any trauma prior to 11 10/17/02 that could have caused a neck fracture in Kim 12 13 Richley? MR. REGNIER: Same objection. 14 Go ahead, Doctor. 15 I've answered your THE WITNESS: 16 question. But if you'd like a more 17 specific answer, she's not had a 18 high-velocity automobile accident or 19 20 traumatic episode that typically causes these fractures, that I'm aware of, prior 21 to 10/17/02. 22 However, her medical history 23 does contain events that could lead to 24

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these types of fractures prior to 1 10/17/02. 2 BY MR. RUF: 3 If a person sustains a fracture of the 4 Ο. facet, would you expect to see arthritic changes where 5 the fracture occurred more than a year after the 6 7 fracture occurs? It depends. 8 Α. Is one of the arthritic changes that you 9 Ο. could see a thickening of the bone where the fracture 10 occurs? 11 You could see that. 12 Α. Do you agree that, based upon Dr. 13 Ο. Likavec's operative report, no arthritic changes were 14 noted at the location of the facet fracture? 15 Let me just look at the report. Is there 16 Α. a particular part of the report that you're 17 referencing? 18 I'm just asking you that, based upon the 19 Q. report, there's no notation of any changes where the 20 facet fracture is? 21 Well, it's a lengthy report and he does 22 Α. describe abnormality of the bone. I guess when you 23 say "arthritis," that's a rather nonspecific term. 24

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You know, if you had a specific observation here, I 1 could address it. But my best answer is that he does 2 note abnormality of the bone. 3 Well, what type of arthritic changes Ο. 4 5 would you expect to see for a person that has sustained a facet fracture? 6 Well, you asked me could they have them 7 Α. and I said it's possible. They also may not have 8 So I don't know that I'd expect to see any 9 them. quote, unquote, arthritic changes from a facet 1.0fracture. 11 Okay. If you did see arthritic changes, 12 Q. 13 what would you expect to see? Well, they could have some broad range. 14 Ά. You could have some minimal thickening of a ligament. 15 16 You could have hypertrophy of bone, as you mentioned. You could have some exophytic bone spurs. 17 You could have narrowing of the facet 18 joint. You could have gapping of the facet joint. 19 You could have irregularity of the facet surfaces. Ι 20 mean, there's a broad range of changes that one could 21 throw into the category of arthritic. 22 Would you agree that Dr. Likavec, as a 23 Ο. surgeon, is in a better position than you to determine 24

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the condition of her bones intraoperatively? 1 Well, I would suppose. He's the only one 2 Α. that saw the bones intraoperatively. 3 If he has testified that, based upon his Ο. 4 performing this surgery, he was of the opinion that 5 this was an acute fracture, would you disagree with 6 7 that opinion? I don't see any reason to dispute it. 8 Α. Would you agree that a neck fracture is a Q. 9 contraindication to cervical manipulation? 10 MR. REGNIER: Objection. Not a 11 standard of care expert. 12 Go ahead, Doctor. 13 THE WITNESS: I would presume it 14is, yes. 15 BY MR. RUF: 16 To put it another way, it would be a 17 Q. deviation from acceptable, medical, or chiropractic 18 practice to manipulate somebody's neck where they had 19 a neck fracture, wouldn't it? 20 Objection. 21 MR. REGNIER: Go ahead, Doctor. 22 THE WITNESS: Well, I can't hold 23 myself out as an expert on the standards 24

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| 1 | of care in chiropractic medicine. |
|----|--|
| 2 | If you're talking about a |
| 3 | patient who has an acute fracture that's |
| 4 | unstable and is known to the treating |
| 5 | chiropractic, it would seem prudent that |
| 6 | that would be a standard. |
| 7 | BY MR. RUF: |
| 8 | Q. Would you agree it would be unreasonable |
| 9 | and imprudent to manipulate somebody's neck where that |
| 10 | person had a neck fracture? |
| 11 | MR. REGNIER: Objection. Go |
| 12 | ahead, Doctor. |
| 13 | THE WITNESS: I think I just |
| 14 | said that if it was an acute fracture and |
| 15 | it was unstable and the treating |
| 16 | physician was aware of it, I think it |
| 17 | would be imprudent to treat it with |
| 18 | manipulation unless the manipulation was |
| 19 | done to reduce the fracture with x-ray |
| 20 | guidance and other well-known techniques. |
| 21 | BY MR. RUF: |
| 22 | Q. Are you aware of "Campbell's Operative" |
| 23 | Orthopedics"? |
| 24 | A. Am I aware of it? |
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| 1 | Q. Yes. |
| 2 | A. I'm aware that it's a general textbook of |
| 3 | orthopedics. |
| 4 | Q. Have you reviewed that text and studied |
| 5 | that text? |
| 6 | A. No. |
| 7 | Q. Would you agree with the statement in |
| 8 | "Campbell's Operative Orthopedics" that unilateral |
| 9 | facet dislocation usually results from flexion and |
| 10 | rotation of the cervical spine? |
| 11 | MR. REGNIER: Objection. |
| 12 | Go ahead, Doctor. |
| 13 | THE WITNESS: I would only say |
| 14 | that that's an incomplete description. |
| 15 | It does not you know, we all flex and |
| 16 | rotate our spines every day. We've |
| 17 | probably done it during the course of |
| 18 | this discussion. |
| 19 | It takes far more than that to |
| 20 | cause a unilateral facet fracture. |
| 21 | MR. REGNIER: Pardon me, Mark. |
| 22 | Could you identify the edition for me? |
| 23 | MR. RUF: Sure. Eighth edition. |
| 24 | BY MR. RUF: |
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Well, would you agree that a facet Ο. 1 fracture is typically caused by rotational force? 2 No, no. Facet fractures are not caused 3 Α. by rotational force. There are different types of 4 The fracture described here in Kim 5 facet fracture. Richley is a combination of simultaneous forces. 6 In your opinion, what simultaneous 7 Ο. Okay. forces caused her neck fracture? 8 You would have to get a simultaneous 9 Α. hyperflexion and rotational component to result in the 10 11 type of injury you see here. That accounts only, however, for the facet fracture. Her transverse 12 process fracture would not fall into that set of 13 14 forces. If Kim Richley's subluxation was such 15 Ο. that one vertebra was not directly over the other one, 16 there was partial slipping, would that be consistent 17 with a rotational force causing her facet fracture? 18 No, no. That's just a natural logical 19 Α. consequence of a jumped facet, which is what she ends 20 up with in the end. 21 Would you agree that if a chiropractor 2.2 Ο. performs a neck manipulation that results in a facet 23 fracture at C6-7, that would be a deviation from 24

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acceptable medical practice? 1 MR. REGNIER: Object. Can't 2 testify as to chiropractic standard. Go 3 ahead. 4 I think I've THE WITNESS: 5 mentioned already that I can't testify to 6 the chiropractic standard of care. 7 So I don't think that I would have an answer 8 9 to your question. BY MR. RUF: 10 Ο. Well, Doctor, do you think it's 11 acceptable to break a patient's neck with a 12 manipulation? 13 Objection. 14 MR. REGNIER: THE WITNESS: Well, obviously, 15 if you're talking about a patient who has 16 a normal neck and you do something to 17 fracture it, that would seem 18 19 unreasonable. However, it also is quite 20 implausible that you could fracture a 21 patient's neck with routine manipulation. 22 BY MR. RUF: 23 I mean, you would agree if enough force 24 Q.

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was exerted on a patient's spine to fracture the 1 facet, that that would be unacceptable medical care? 2 MR. REGNIER: Objection. 3 Go ahead, Doctor. 4 THE WITNESS: We're talking 5 about forces that occur in high-speed 6 automobile accidents. These are not the 7 kind of forces that one would encounter 8 in medical care. 9 BY MR. RUF: 1.0 Well, do you know exactly how much force 11 Ο. is exerted on a patient's spine with a modified rotary 12 break? Have you ever studied that? 13 I've already testified to the fact that I 14Α. have not studied modified rotary break. But I would 15 just say that you cannot, with human force, fracture 16 the cervical vertebrae in this manner. 17 Have you treated patients that have 1.8 Ο. gotten in fights with other people? 19 Altercations? 20 Α. 21 Q. Yes. Sure. 22 Α. And have those patients sustained 23 Q. fractures of bones as a result of those altercations? 24

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We're speaking now of a unilateral facet 1 Α. 2 fracture, and --I'm first asking you: Have you treated 3 Ο. patients who have sustained fractures as a result of 4 blows or hits from other human beings? 5 Well, for example, an orbital rim Α. 6 fracture or a broken jaw from a punch, yes, I've seen 7 8 that. So you would agree that a human being has 9 Ο. a potential to cause fractures in another human being? 10 If you're talking about fracturing a thin 11 Α. bone with a focal impact of a fist, yes. That's 12 certainly not applicable to this case. 13 Doctor, could you tell me the amount of 14Ο. foot pounds of force that were exerted on Kim 15 16 Richley's spine by this modified rotary break technique? 17 Nobody could tell you that. 18 Α. You don't know. 19 Ο. Nobody knows. 20 Α. Do you know the amount of foot pounds it 21 Ο. takes to fracture a facet in a person's spine? 22 Ιf Depends on the quality of the bone. 23 Α. they have normal, healthy bone, it would be much 24

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higher than if they have, for example, soft bone. 1 2 Ο. Okay. What about for either one? Do vou know the amount of foot pounds of force it would take? 3 I would only know in a rough category 4 Α. that it would be significantly high for normal healthy 5 bone. In reality, we see these fractures only in 6 7 high-speed, high-velocity, high-force-type deceleration trauma. So I know they'd be high forces. 8 Have you ever treated patients who have 9 Ο. had injuries caused by a chiropractor? 10 When I was a resident at Henry Ford 11 Α. Hospital, we had a patient who had a vertebral 12dissection after chiropractic manipulation. 13 That's the only one I've ever seen. 14 Have you read about injuries caused by 15 Q. chiropractors in the medical literature? 16 17 The only topic I've ever seen discussed Α. relative to that would be vertebral dissections. 18 And what do you mean by "vertebral 19 Ο. dissections"? 20 The vertebral artery is a blood vessel 21 Α. 22 that supplies blood flow to a portion of the brain. And it runs through the bones of the neck. And there 23 are isolated case reports of that blood vessel being 24

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injured during manipulation by chiropractors and 1 osteopathic physicians. 2 Have you ever done a literature search to 3 Ο. determine what the literature documents as 4 complications caused by chiropractors? 5 No. I haven't. 6 Α. And you aren't aware of the potential 7 Ο. complications caused by chiropractic manipulation, 8 correct? 9 Well, you had asked me my experience, and 10 Α. my experience is I've seen vertebral dissection and 11 I'm aware of vertebral dissection. And in my years of 12 general practice in neurosurgery, I've not seen any 13 other type of injury from chiropractic treatments. 14 But you've never specifically researched 15 Ο. 16 or studied the potential complication from 17 chiropractic manipulation, correct? Α. Correct. 18 So you don't know what the potential 19 Ο. complications are from chiropractic manipulation, 20 correct? 21 Other than from my own experience. 22 Α. Right. Other than from your own 23 Ο. experience, you don't know what the documented 24

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complications are from chiropractic manipulation, 1 correct? 2 T think that's a fair statement. 3 Α. Doctor, in your practice, you use a Ο. 4 5 written consent form, correct? Α. Yes. 6 As a matter of fact, that's available 7 Ο. on-line, is it not? 8 Α. Yes. 9 And you have a rather extensive written 10 Ο. consent form, correct? 11 I believe it's comprehensive. 12 Α. That's the standard that you use in your 13 Ο. · practice, a written consent form, correct? 14 For invasive procedures, yes. 15 Α. Would you agree that in treating a 16 Ο. patient's spine, you have to inform a patient of all 17 the potential risks of the treatment? 18 In our practice, for example, when you're 19 Α. doing surgery and invasive procedures, yes. 20 Do you ever manipulate a patient's spine? 21 Q. Only in attempting to reduce fractures 22 Α. and things under x-ray guidance. 23 Well, do you agree with any type of 24 Ο.

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medical treatment, a patient should be informed and 1 consent to the risks of that treatment? 2 MR. REGNIER: Objection. Go 3 ahead, Doctor. 4 Well, I think THE WITNESS: 5 that, you know, it would be a little hard 6 7 to say. I mean, for example, if --8 BY MR. RUF: 9 Ο. Well, isn't that the way that you practice medicine, Doctor? 10 I'd like to finish my answer. 11 Α. 12 Ο. All right. I was going to say, you know, in 13 Α. medicine, many times we do things like swab the back 14 of a throat, look into an ear canal, et cetera. 15 16 They're not considered to be issues one would obtain informed consent over or have lengthy 17 discussions regarding the risk benefits of. When you 18 get down to something like an invasive procedure, 19 doing surgery, then, yes, it would be typical and I 20 would say prudent to have those types of discussions. 21 So would you agree that if there's a risk 22 Ο. of injury to the patient, that risk should be 23 discussed with the patient? 24

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| 1 | MR. REGNIER: Objection. |
| 2 | Go ahead, Doctor. |
| 3 | THE WITNESS: Well, I just |
| 4 | answered that. I mean, of course, when |
| 5 | you're swabbing the back of a throat, you |
| 6 | could ostensibly injure somebody. Of |
| 7 | course, there's a risk of injury in any |
| 8 | of the things we do. |
| 9 | But I'm not suggesting that all |
| 10 | of those issues are subject to formal |
| 11 | discussions regarding the risks and |
| 12 | benefits. |
| 13 | BY MR. RUF: |
| 14 | Q. Well, are you telling me it's acceptable |
| 15 | to treat a patient where there's a risk of injuring |
| 16 | that patient without obtaining that patient's consent? |
| 17 | MR. REGNIER: Objection. |
| 18 | Go ahead, Doctor. |
| 19 | THE WITNESS: I think I'm |
| 20 | answering your question and I think I've |
| 21 | been very clear and I'll say it again. |
| 22 | BY MR. RUF: |
| 23 | Q. Well, I think you're giving me an evasive |
| 24 | answer. Do you think it's acceptable to treat a |
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| 1 | patient where there's a risk of injuring the patient |
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| 2 | and the patient has not consented to that risk? |
| 3 | MR. REGNIER: Objection. |
| 4 | THE WITNESS: There's nothing |
| 5 | evasive about my answer, and I will |
| б | repeat it. |
| 7 | Many times, we perform |
| 8 | investigations, observations, |
| 9 | manipulations. Even during the course of |
| 10 | an examination, I do straight leg |
| 11 | raising. I do an external rotation of |
| 12 | the hip to check range of motion. I have |
| 13 | people stand on their toes. |
| 14 | They could fall. I could |
| 15 | fracture a hip. I could pull a muscle. |
| 16 | Of course these things aren't subject to |
| 17 | consent discussions. |
| 18 | So when you ask if we do |
| 19 | something that has the potential to harm, |
| 20 | isn't it necessary to have a consent |
| 21 | discussion beforehand, I think I've |
| 22 | answered clearly no. |
| 23 | When you then turn around and |
| 24 | say, well, are you telling me it's okay |
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| 1 | to do things that can harm patients |
|----|---|
| 2 | without telling them about it, I'm |
| 3 | saying, you know, in practical reality, |
| 4 | that is true, that there are things like |
| 5 | swabbing the back of a throat that could |
| 6 | harm somebody and, in fact, we don't have |
| 7 | lengthy consent discussions about it. |
| 8 | I'll bet you the last time you |
| 9 | had your teeth cleaned, you didn't have a |
| 10 | lengthy consent discussion with your |
| 11 | dentist before he cleaned your teeth. |
| 12 | But can teeth cleaning harm you? Sure. |
| 13 | When your barber cuts your hair, |
| 14 | I'm sure you didn't have a lengthy |
| 15 | consent discussion. But could he harm |
| 16 | you with those shears? I'm sure he |
| 17 | could. |
| 18 | BY MR. RUF: |
| 19 | Q. A barber's not a doctor, correct? |
| 20 | A. I think what I'm doing is using analogies |
| 21 | to help you understand my point on this issue. |
| 22 | Q. I think you're the only doctor I've ever |
| 23 | talked to that doesn't think you need to obtain |
| 24 | informed consent from a patient. |
| | |

| 1 | MR. REGNIER: Objection. |
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| 2 | BY MR. RUF: |
| З | Q. Doctor, if there's a risk of fracturing a |
| 4 | patient's neck from treatment, would you agree that's |
| 5 | something that has to be explained to the patient and |
| б | the patient has to consent to the treatment? |
| 7 | MR. REGNIER: Objection. Your |
| 8 | question's not consistent with Ohio law. |
| 9 | Go ahead, Doctor. |
| 10 | THE WITNESS: I don't think that |
| 11 | there is necessarily any strong body of |
| 12 | evidence or literature to support |
| 13 | fracturing a neck during manipulation. |
| 14 | And if it's the type of thing |
| 15 | that would occur one in a million times, |
| 16 | I think that you would not need to have a |
| 17 | discussion regarding that. It just |
| 18 | doesn't seem reasonable. |
| 19 | If it's something that occurs |
| 20 | with frequency, 5 percent of the time, I |
| 21 | think, yes, you should have a discussion |
| 22 | regarding that. |
| 23 | BY MR. RUF: |
| 24 | Q. Do you agree there's no evidence of any |
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event or occurrence which could have caused Kim 1 Richley's facet fracture between 10/17 and 10/21 other 2 than the chiropractic manipulation? 3 Α. I don't agree with that. 4 You don't agree with that. Well, are you 5 Ο. aware of any trauma to Kimberly Richley's cervical б spine between 10/17 and 10/21/02? 7 I'm not aware of any. 8 Α. So you're not aware of any other 9 Ο. potential cause for Kimberly Richley's neck fracture 1.0 other than the cervical manipulation of 10/21/02? 11 I didn't say that. I distinctly believe 12 Α. there has to be some other explanation. It's just not 13 plausible that her neck was fractured by manipulation, 14 either by the description she gives or the one that 15 16 Dr. Reichenbach gives. She's a seizure patient, and my best 17 guess is that she had a seizure that caused it. But 18 maybe there's some type of trauma that she suffered 19 that I'm not aware of. Because certainly the 20 transverse process fracture is a telltale sign that 21 whatever caused the fracture was beyond what one would 22 expect with flexing and rotating the head. 23 But you have no other plausible 24 Ο.

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explanation for why she sustained a fracture which 1 appeared on the films on 10/22/02? 2 I think my plausible explanation, my 3 Α. No. best explanation, is that it must have been a seizure. 4 She awoke out of sleep with it, common history for a 5 seizure. That type of fracture would fit with a 6 7 seizure. And I don't think it's plausible that she suffered a fracture from the manipulation. 8 9 Ο. Are you aware of any evidence that she actually had a seizure between 10/21 and 10/22? 10 11 Other than she's a patient that's treated Α. for epilepsy and that she ended up with a fracture 12 that's consistent with a seizure. 13 That's my best evidence for that. 14 15 So you would agree you have no evidence Ο. that she actually had a seizure between 10/21 and 16 10/22? 17 Objection. MR. REGNIER: Asked 18 and answered. 19 20 THE WITNESS: I think I gave you my best answer to that question. 21 BY MR. RUF: 22 Do you have any evidence or don't you, 23 Q. Doctor? 24

| 1 | | MR. REGNIER: Objection. He |
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| 2 | | just gave it to you. |
| 3 | | Go ahead, Doctor. |
| 4 | | THE WITNESS: She has a fracture |
| 5 | | that I believe is consistent with a |
| 6 | | seizure, and the only plausible |
| 7 | | explanation for her to have this fracture |
| 8 | | is a seizure or some event that we're not |
| 9 | | aware of. |
| 10 | | She has a history of seizures. |
| 11 | | And she also woke out of sleep with this |
| 12 | | problem, which would fit the pattern of |
| 13 | | seizures. That's what I would offer to |
| 14 | | you as evidence that there's a reasonable |
| 15 | | and perhaps best explanation of her |
| 16 | | fracture. |
| 17 | BY MR. RUF: | |
| 18 | Q. | Do you know if she had had seizures |
| 19 | before 10/21/ | 02? |
| 20 | Α. | I'm sure she had. |
| 21 | Q. | Do you know for sure whether or not she |
| 22 | had seizures? | |
| 23 | Α. | She had been treated for them. |
| 24 | Q. | Do you know the frequency of the |
| | | |

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1 seizures? MR. REGNIER: Same objection, 2 based on your failure to produce records. 3 Go ahead. 4 THE WITNESS: It wouldn't matter 5 what the frequency was. 6 BY MR. RUF: 7 Do you know how long before 10/21/02 she 8 Ο. had a seizure? 9 Again, it wouldn't matter. If a person 10 Α. has one seizure every day or one seizure every 20 11 years, they could still fracture their neck during 12 seizure. The frequency doesn't have any impact on 13 that. 14 Can you cite one medical article or one 15 Ο. medical textbook that documents a facet fracture in 16 17 the neck as a result of a seizure? I don't know that it's written in any 18 Α. textbooks, but it's certainly quite plausible and I 19 think the best explanation for this situation. 20 So as we sit here today, you can't tell 21 Ο. me any medical literature that would document a facet 22 fracture being caused by a seizure, correct? 23 Well, I don't claim to have memorized the 24 Α.

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world's medical literature, nor do I believe that 1 appearing in literature is something that is necessary 2 to state that something is a reasonable and 3 appropriate conclusion. 4 And I'm certain that if we did search the 5 literature, we'd probably find that reported. But if 6 you're asking me have I memorized literature and can 7 cite it chapter and verse, of course not. 8 I'm asking you are you aware of any 9 Ο. literature as we sit here today that documents any 10 facet fractures being caused by a seizure? The answer 11 12 is no, correct? The answer is the answer I just gave you. 13 Α. Why can't you just give me a simple 14 Ο. answer, Doctor, instead of these circular answers? 15 16 MR. REGNIER: Objection. THE WITNESS: Because the answer 17 is not simple. The answer is not simple 18 at all. 19 20 BY MR. RUF: 21 Can you cite an article as we sit here Ο. 22 today? 23 Well, that, I did answer quite directly. Α. I said I do not have the world's literature memorized. 24

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I cannot give you a citation off the top of my head. 1 I said that if we searched the literature, we may well 2 find it. 3 And I also pointed out that because 4 something is documented in literature is not the 5 litmus test for whether it's reasonable, unreasonable, 6 true, or untrue. 7 Have you ever treated a patient that Ο. 8 sustained a cervical facet fracture as a result of a 9 seizure? 10 I can't recall that set of circumstances. 11 Α. How many people have you treated with 12 Ο. facet fractures in the cervical spine? 13 Oh, I'm sure it's probably, if not 100, Α. 14 15 very close to it. Would you agree that, based upon a 16 Ο. reasonable medical certainty, the facet fracture to 17 18 Kimberly Richley's cervical spine occurred between 10/21 and 10/22/02? 19 I'm not sure I would. I don't think that 20 Α. you would have to tie it down to that time frame. 21 Well, you've already testified that, 22 Ο. based upon reasonable medical certainty, she did not 23 have a fracture on 10/17/02, correct? 24

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Α. Yes. 1 So would you agree that the cervical 2 Ο. fracture had to be caused sometime between 10/17/023 and 10/22/02 when the film showed the fracture? 4 Well, that's a different set of dates 5 Α. that you just stated. I was confused as to why you 6 were trying to narrow the dates earlier. 7 Well, since you wouldn't agree with my Ο. 8 question, I'm changing it. 9 I see. I think, you know, based on the 10 Α. medical records that I've been allowed to review, I do 11 not see evidence of a fracture before 10/17. And we 12 have those x-rays. And then I think the first time we 13 see evidence of a fracture, if I'm correct, is 10/22. 14 I'll check that and make sure I've got it right. 15 Yeah, I think 10/22 is the date. 16 So you would agree that the fracture 17 Ο. occurred sometime between 10/17/02 and 10/22/02? 18 I believe that's a reasonable conclusion. 19 Α. Would you also agree that the subluxation 20 Ο. at C6-7 occurred sometime between 10/17/02 and 21 22 10/22/02? Yes. 23 Α. Have you performed surgery on patients 24 Ο.

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that have sustained facet fractures of the cervical 1 2 spine with subluxation? I have. 3 Α. Was the type of surgery performed by Dr. 4 Ο. Likavec appropriate to treat Kim Richley's condition? 5 Yes. Α. 6 Would you agree that the treatment by 7 Ο. 8 Deaconess Hospital, Metro Hospital, and Precision Orthopedics was all reasonable and necessary 9 10 treatment? I'm okay with the hospital and with the 11 Α. surgery. I'm not so sure what Precision 12 Orthopedics --13 It's Dr. Chauhan. 14 Ο. You know, I don't really know what Dr. 15 Α. Chauhan is doing for her. The problem was treated 16 surgically, and I don't know what an orthopedic 17 surgeon is offering that's of value. But I agree that 18 19 the hospitalization and the surgery were necessary and 20 reasonable treatment. Based upon your experience, would 21 Ο. approximately 34,000 in medical bills be the 22 approximate cost to treat a facet fracture surgically, 23 24 with subsequent follow-up treatment?

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Well, including the hospitalization and 1 Α. all ancillaries. 2 Yes? 3 Ο. Yes, including the hospitalization and Α. 4 all ancillaries. 5 Doctor, can you identify for me any Ο. 6 7 medical article or any medical textbook that supports the opinions you set forth in your letter? 8 Do you have a specific opinion that 9 Α. you're referring to? 10 Any of your opinions. 11 Q. Objection. MR. REGNIER: 12 Vaque. 13 14 THE WITNESS: For example, Opinion 1, which states the description 15 of the chiropractic treatment rendered to 16 Kimberly Richley does not correspond to 17 the forces involved in a unilateral jump 18 19 facet injury and that such injuries are 20 usually associated with high-velocity deceleration injuries, you could find 21 virtually in any textbook that discusses 22 this type of issue, and I'm certain 23 innumerable articles. 24

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BY MR. RUF: 1 Can you cite to one? 2 Ο. Well, I didn't come here prepared with 3 Α. citations and I don't keep citations memorized in my 4 5 head. I'm just asking if you can cite one. Ιf б Q. you can't, tell me you can't. 7 I would just say that any general Α. 8 textbook that discusses cervical spine trauma. 9 Okay. Why don't you name a textbook? 10 Ο. Gosh, there's a number of general texts 11 Α. in neurosurgery. I'm sure they must cover the topic. 12 13 Q. Name one. Yeoman's would be a textbook in general Α. 14 15 surgery that may cover this topic. Have you found Yeoman's to be accurate 16 Q. and reliable? 17 I use textbooks for general reference. 18 Α. That's a peer-review textbook, is it not? 19 Ο. Peer review usually refers to articles 20 Α. 21 and literature. Textbooks are typically not peer 22 review. Well, what's written in Yeoman's is 23 Ο. reviewed by a whole group of doctors, is it not? 24

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Well, my general understanding of the Α. 1 2 process, having been a contributor to general textbooks, is that usually contributing authors write 3 a chapter and it's the editor of a text who will 4 generally review it and sign off on it, but it's not 5 reviewed by any panel of experts or anything like that 6 for a textbook. 7 Textbooks are just basically representing 8 the chapter's author's experiences. And the 9 experiences that are included in the chapter are 10 usually defined by the instructions given by the 11 managing editor. 12 And you may well find textbooks like that 13 that have multiple contributing physicians that you'll 14 find conflicts, even, in what they write in one 15 chapter versus the next. But that just reflects the 16 nature of the medicine. It's not something that can 17 18 be pinned down to exact precise science. A lot of it is judgments and opinions and biases. 19 Are you aware of any other textbooks that 20 Ο. would support the statement you made in Paragraph 1? 21 Well, I said just about any general 22 Α. 23 textbook would support it. Can you cite any others other than 24 Ο.

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Yeoman's? 1 Another general textbook of neurosurgery 2 Α. would be Wilkins & Rengachary. That's a very similar 3 I'm sure you'll probably even find it in your 4 book. "Campbell's Operative Orthopedics." 5 6 Well, it's an operative book. That probably wouldn't be germane. You'd probably want to 7 see something in a more generalized text. But there 8 are certainly many of these textbooks out there. Т 9 10 just don't have a whole list of them in my mind right 11 now. Any other ones you can think of that 12 Q. 13 would support the statement you made in Paragraph 1? I think I'm just going to stop. I just 14 Α. can't think of any other general textbooks to offer 15 16 you. 17 What about for Paragraph 2, either Ο. articles or general textbooks? 18 I'd say the same answer. You could find 19 Α. that in any general text on the topics. If you need 20 specifics, I'll just stick with the two I've already 21 been able to think of off the top of my head. 22 23 Q. The same with Campbell's? No, I can't include Campbell's. It's an 24 Α.

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operative book, so it wouldn't really discuss these 1 2 issues, at least not in any depth. What about Paragraph 3? 3 Ο. Delayed onset of pain recorded by the Α. 4 patient? Well, of course, it's a very common piece of 5 information that would probably, again, be covered in 6 any general textbook. When you fracture a facet, you 7 have pain at the time of the fracture. 8 I mean, it might be so widely accepted, 9 it's assumed in the chapter. I don't think you would 10 find a book that would suggest otherwise. 11 Would you stick with the same two 12 Ο. textbooks you've named for Paragraph 3? 13 Since they're the only ones I can think 14 Ά. of off the top of my head right now, I'll go with 15 16 them. What about Paragraph 4? 17 Ο. Well, Opinion No. 4 states that the jump 18 Α. facet injury could only be caused by low-velocity 19 forces if there's a significant preexisting injury of 20 21 the facet joint. I doubt that a topic like that would be 22 covered in a general textbook of any type. I think 23 that this is based on the fact that I have expertise 24

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in treating these, and I've treated, as I've said, 1 hundreds of neck fractures and certainly a great deal 2 of facet fractures. З You just don't see them in low-velocity 4 You see them as a result of high-velocity 5 injuries. 6 injuries, significant forces like you find in high-velocity car accidents, that type of thing. 7 What about Paragraph 5? 8 Ο. Well, now, in Paragraph 5, C7 nerve root 9 Α. 10 compression is a common clinical case, that many patients with symptoms similar to Kimberly Richley's 11 12 are seen in my practice. And it goes on to say that 13 in my experience, these injuries do not result in debilitating lifelong symptoms. 14 Now, I doubt my experience is captured in 15 anybody's textbook, but certainly I treat C7 16 radiculopathy on a daily basis, and I find it 17 incredulous that anybody would claim permanent 18 disability from a C7 nerve root injury. 19 It just doesn't fit at all with my experience. 20 Have you ever had a patient who has had 21 Ο. 22 permanent sequelae from a facet fracture where a piece 23 of the fracture is impinging on the nerve? Well, yeah. That's common, to find a 24 Α.

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piece of -- in these types of fractures, if the facet 1 jumps and fractures off the tip of the bone as it did 2 here, you can find a piece of bone lodged in the 3 neural foramina of the nerve root. That's not 4 exceptional. And it would be similar to rupturing a 5 disk and having the ruptured disk sit in the neural 6 7 foramina with the nerve root. Nothing more, nothing less. 8

9 Q. Have you had patients that have had10 permanent sequelae from that?

A. Well, you could certainly have permanent
numbness, permanent weakness of all varying degrees.
But what I'm saying is that it's not something that
would cause a person to be disabled.

Q. Based upon your experience in general, does the healing to the cervical spine occur within a year of the injury?

A. Well, the bony healing, of course, is quicker than that. Nerve root healing, if it involves regeneration, you know, we usually use a time frame of 9 to 12 months for nerve root regeneration.

Q. So has it been your experience that if a patient has problems past one year, that those are permanent problems?

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Well, it depends on what the problem is. Α. 1 When we're talking about nerve root degeneration, 2 we're talking about numbness and weakness. So if you 3 have weakness and it doesn't get better in a year's 4 time, then we usually say whatever portion of that 5 weakness you have is probably permanent. And the same 6 with numbness. 7 What about pain? 8 Ο. Pain, you couldn't say that. Pain is a 9 Α. very subjective thing. It can come and go. People 10 11 who walk into my office who have had pain for years and years and years can be relieved of their pain. 12 13 Have you ever testified in an automobile Ο. accident case that a patient was going to have 14 permanent pain for the rest of their life? 15 I don't recall testifying to that, but I 16 Α. guess it would depend on the nature of the case facts. 17

18 Q. Well, would you agree that the conditions 19 that Kimberly Richley is currently suffering from are 20 permanent conditions?

A. I don't know that she's suffering fromany condition.

Q. Okay. Could you tell me what her current condition is?

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MR. REGNIER: Objection. 1 THE WITNESS: I would say that I 2 think the record leaves off with her 3 surgeon finding her to be in normal 4 health without any neurologic residual. 5 And that's what I would expect. 6 7 BY MR. RUF: Are you aware that Dr. Likavec, her Ο. 8 surgeon, and Dr. Chauhan, her pain management 9 orthopedic doctor, have both rendered the opinions 10that her current condition is permanent? 11 Objection. MR. REGNIER: 12THE WITNESS: I don't know what 13 condition you're speaking of. But we can 14 review Dr. Likavec's office notes. And 15 as far as I could tell, I think his 16 office notes said she was doing fine. 17 BY MR. RUF: 18 First let's start with Dr. Chauhan. Have 19 Ο. you reviewed his report? I think I saw it in your 20 21 materials (indicating). Do you want to hang on to that? I'll try 22 Α. 23 and find my copy. 24 Ο. Sure.

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Α. Okay. 1 2 Q. Would you agree that in his report of April 15th, 2004, he documents that presently, the 3 primary complaint is that of neck pain? 4 I see in Paragraph 3, it says regarding 5 Α. her current condition, she continues with substantial 6 neck pain. 7 You have not examined Kimberly Richley, Ο. 8 correct? 9 Α. That's correct. 10 So do you have any basis to dispute that 11 Ο. she suffers from neck pain on a daily basis? 12 Well, I guess I was earlier looking for 13 Α. the office records of Dr. Likavec. I just wanted to 14 cross-reference this with what he wrote about her 15 postoperative condition. 16 MR. REGNIER: Which report are 17 you looking for? 18 19 THE WITNESS: I was looking for the office notes from Dr. Likavec, his 20 follow-up visits. 21 BY MR. RUF: 22 23 Well, let me ask you this: Would you Q. 24agree that Dr. Chauhan is in a better position than

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you are to know what Kimberly Richley's current 1 2 condition is? Well, in the fact that you've represented 3 Α. that he's treating her, I'm sure he is. 4 Are you aware that the defense had an 5 Ο. examination done by a neurologist, Dr. Mann? 6 I don't know that I'm aware of that. 7 Α. If Dr. Mann, as a witness for the 8 Ο. defense, conducted a neurological examination on 9 September 9th, 2004, and stated that Kimberly Richley 10 is troubled with burning, tightness, and pain in the 11 neck radiating down the arm into the fingers, and 12 headaches originating in the neck, do you have any 13 basis to dispute that? 14 15 NO. Α. Would you agree that if she is suffering 16 Ο. from those conditions almost two years from the date 17 of the fracture that, based on reasonable medical 18 certainty, those conditions are permanent? 19 Well, I find that harder to agree to. Ι 20 Α. would just say that, in my experience, these types of 21 22 injuries, when you treat them, use them, patients may 23 have some complaints of achy pain, stiff neck. But 24 nothing quite that dramatic.

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And whether it would be permanent would 1 be hard to say. Because as I've mentioned, you know, 2 I'll see people that come in years after a problem and 3 we can treat them and get them better. 4 Would you agree that the healing and 5 Ο. improvement for an injury to the cervical spine 6 usually occurs within the first year after the injury? 7 8 What I testified to the last time you Α. asked me that question was that if the injury is to 9 the nerve and it requires nerve regeneration, a 10 9-to-12-month time frame is about right. 11 For bone healing, it's a little bit 12 13 quicker than that. But that's about how long it takes for these tissues to heal and/or regenerate. 14 But when you speak of healing in the 15 sense that they become symptom-free, that's a little 16 bit different. Because symptoms can linger on for 17 18 longer than a year and longer than two years. And 19 that doesn't mean that they'll be permanent. If Dr. Chauhan has testified that 20 Ο. Kimberly Richley cannot sit for long periods of time 21 22 due to her condition, do you have any basis to dispute 23 that? 24Α. It seems implausible.

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| 1 | Q. Do you know whether or not she can look |
|----|--|
| 2 | up and down repetitively? |
| З | A. No, I don't know whether she can look up |
| 4 | and down repetitively. I presume she can, because if |
| 5 | you have a single level of your neck fused, you lose |
| 6 | probably 7 degrees of total motion out of a range |
| 7 | that's probably 40 to 50 degrees flexion-extension, so |
| 8 | it would only be a small percentage that she would |
| 9 | lose. |
| 10 | Q. Do you know if she can lift more than |
| 11 | 2-1/2 pounds? |
| 12 | A. She can lift more than 2-1/2 pounds. |
| 13 | Q. Do you know if she's been tested for |
| 14 | that? |
| 15 | A. I don't know that she's been tested. But |
| 16 | you can function without your C7 root altogether and |
| 17 | lift more than 2-1/2 pounds. |
| 18 | Q. Doctor, would you agree that if Kimberly |
| 19 | Richley is troubled with burning tightness, pain in |
| 20 | the neck radiating down the right arm to the fingers, |
| 21 | headaches originating in the neck, that she can't lift |
| 22 | more than 2.5 pounds, she can't sit for long periods |
| 23 | of time, she can't look up or down repetitively, she |
| 24 | has daily neck pain, that those things would disable |
| | |

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her from working? 1 Objection. MR. REGNIER: Go 2 ahead, Doctor. 3 I would say those THE WITNESS: 4 things are not consistent with the injury 5 she had. It would only seem to me that 6 that's an extraordinary pattern of 7 symptomatology for a person with a C7 8 root injury, and there must be some other 9 explanation. 10 BY MR. RUF: 11 Well, assuming those problems are 12 Ο. documented both by Dr. Chauhan by Dr. Mann, if she has 13 those conditions, don't you think it would be 14 15 difficult for her to get a job? 16 Α. Well, I think that -- you know, I wouldn't want to hold myself out as a rehabilitation 17 expert, but I would think that she could be 1.8 rehabilitated to meaningful remunerative employment. 19 20 Doing what? What do you think she can Ο. get a job doing? 21 Well, can she talk on the phone? She 22 Α. could get a job as a telephone operator, as a phone 23 solicitor, as a receptionist. I mean, there's a lot 24

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of light-duty work. People with really, truly 1 dramatic injuries to their neck who are paralyzed and 2 3 things work in those capacities all the time. Do you know if any of those jobs would 4 Ο. require lifting more than 2.5 pounds? 5 I doubt they would. 6 Α. Do you know of an employer that would 7 0. hire her with all these restrictions? 8 Objection. MR. REGNIER: 9 THE WITNESS: Do I know of an 10 11 employer personally? BY MR. RUF: 1213 Yes. Ο. I don't know that many employers, but I 14 Α. know disabled people are hired all the time. I go to 15 the checkout line in the store and I've had groceries 16 bagged by people with cerebral palsy. I've had people 17 in wheelchairs ring up my orders. 18 19 I mean, in the courthouses around, I've seen people who are blind preparing and serving meals. 20 Yes, disabled people are fully able to return to work. 21 Would you agree that you don't know 22 Ο. whether or not she's employable, because you don't 23 24 know her current condition?

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I wouldn't agree to that, no. You've 1 Α. described her current condition as you believe it is, 2 and I'd say I still think that, you know, in this day 3 and age, people with much worse injuries than she 4 sustained go back to remunerative employment, and that 5 б people with disabilities are employed in many different walks of life. 7 So what jobs is she qualified for? 8 Ο. We've talked about that. 9 Α. Any other jobs you can think of she's 10 Ο. qualified for? 11 Filing logistics. I'm sure, you know, if 12 Α. I was a rehab specialist, I could probably come up 13 with a whole litany of them. 14 I'm asking you. You've talked about 15 Q. employability in your report. 16 17 Α. And I'm answering you. Okay. Any other jobs you can think of 18 Ο. that she's qualified to do? 19 I said radio dispatch logistics in 20 Α. trucking companies, fire departments, police 21 She could be some type of a school aide 22 departments. to help teach kids how to read. She could probably 23 work in any one of a number of capacities, and I think 24

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a rehab specialist could probably rattle off a whole 1 2 litany. Do you know if any of those jobs require 3 Ο. lifting more than 2.5 pounds? 4 5 MR. REGNIER: Objection. THE WITNESS: I doubt they 6 would. 7 BY MR. RUF: 8 You don't know one way or the other, 9 Ο. 10 though, right? Well, I would say that there are 11 Α. definitely jobs out there that do not require lifting 12 2-1/2 pounds that she would qualify for. 13 And do any of those jobs that you named 14Ο. require sitting for long periods of time? 15 16 Well, it depends. Perhaps. Perhaps you Α. 17 could take frequent breaks. Do you know if any of those jobs require 18 Ο. looking up and down repetitively? 19 I would say it's unlikely they would. 20 Α. Are you aware that the defense expert, 21 Ο. Dr. Mann, has rendered the opinion that her cervical 22 facet fracture appears to him to have been caused by 23 the manipulation of October 21st, 2002? 24

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I don't believe I'm familiar with his Α. 1 I see the highlighted sentence here in the 2 report. report you've handed me, this appears to me to be 3 caused by the manipulation of October 21st, 2002. 4 5 Do you agree that, based on the Metro Ο. 6 Health medical records, the doctors at that facility attributed Kimberly Richley's neck fracture to the 7 cervical manipulation? 8 I see an encounter form from the 9 Α. emergency department that says a 39-year old, status, 10 11 post-manipulation by report. In patient's chiropractor's office yesterday with exquisite pain, 12 13 sharp, shooting down right arm. Now, your question is am I aware they 14 attributed it to manipulation? I don't know that 15 16 would be an attribution, but there might be somewhere 17 else you want to point me in the record. Do you agree that the radiology 18 Ο. Sure. report for the CT states under "History": "C6-7 19 dislocation with numbness in upper extremities, 20 chiropractor dislocation"? 21 22 Do I agree that's what it says? Yes, Α. 23 that's what it says. Do I agree that that means the treating doctors have gone on record stating that they 24

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believe that the chiropractic manipulation caused the 1 I don't think that that would 2 fracture? Well, are you aware that Dr. Likavec, the 3 Ο. neurosurgeon, has written a report in which his 4 opinion is that the chiropractic manipulation caused 5 the fracture and the condition he observed at the time 6 7 of surgery? I'm aware of Dr. Likavec's report. 8 Α. Don't you agree that that's a reasonable Ο. 9 conclusion? 10 Well, I think I've given you my 11 Α. conclusion, is that it's implausible that the 12 low-velocity forces involved in chiropractic 13 manipulation on this patient, either by the 14 plaintiff's description or Dr. Reichenbach's 15 description, would result in this type of fracture. 16 17 It's just not biologically plausible. What I'm asking you is: Do you think Dr. 18 Ο. Likavec's conclusion and Dr. Mann's conclusion that 19 the chiropractic manipulation caused Kimberly 20 Richley's facet fracture is an unreasonable 21 22 conclusion? 23 Α. Yes, I think it's an unreasonable conclusion. 24

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Even though you're not aware of any other 1 Q. trauma that could have caused this facet fracture? 2 We've gone over that extensively and I 3 Α. think I've offered my explanation, which I think is a 4 better explanation for her facet fracture. 5 Do you know whether or not an EMG of 6 Ο. March 2nd, 2004, documented ongoing evidence of 7 8 chronic nerve damage in Kimberly Richley? Well, I think that we're going back now 9 Ά. to precision orthopedics. I've never seen an EMG. Ι 10 think he references that there was an EMG done in his 11 report dated April 15th, 2004. And in that report, he 12 13 states an EMG was repeated on March 2nd, 2004, and she had ongoing evidence of chronic nerve damage, but with 14 15 some recovery of nerves noted. Now, taken at face value, that sentence 16 is not reasonable and is self-contradictory. What I 17 think he means to imply is that the EMG shows evidence 18 of a prior or a chronic nerve injury. To say it's 19 ongoing, I think he doesn't mean to imply that she has 20 21 ongoing nerve damage. You haven't even seen the results of the 22 Ο. EMG, correct? 23 24Α. No, I have not seen the results of this

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1 particular EMG.

2 Q. So you're commenting on the results of 3 the EMG without even seeing it, right?

A. No. I think you have to give me a chance to finish my answer here. Basically, this patient has had an injury, and this EMG is being done well after the injury is completed.

8 The sentence does not have internal 9 consistency. And I think that what he means to say is 10 not necessarily conveyed in the words he used. 11 Typically after a patient has had a nerve root injury 12 and you get an EMG, it won't be normal.

It will show evidence of the prior injury, and we usually refer to that as a chronic change that's related to a prior injury. What it doesn't imply is that there's some kind of ongoing injury to the nerve.

And the reason we know that's not the 19 case is because he goes on to say that the same EMG 20 shows some recovery of the nerves noted.

Now, an EMG can't show recovery of nerves. What I think he's intending to mean there is that there was an injury. The acute phase is over. You don't see any acute phase changes on EMG. All you

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see is chronic phase changes indicative of the prior 1 injury. 2 That would be found virtually in anybody. 3 I mean, if you had a ruptured disk and had a surgery 4 done and your EMG was positive, if you got an EMG ten 5 years later when this was all over with, you would see 6 this pattern of chronic phase changes consistent with 7 a prior injury. I think that's what he's referring 8 9 to. Have you reviewed any studies in the 10 Q. medical literature on neurological sequelae from facet 11 fractures? 12 I mean, I've read extensively on facet 13 Α. fractures. 14 I'm asking you: Have you reviewed any 15 Ο. specific article that addresses the subject of 16 neurological sequelae from facet fractures? 17 The answer is I've read extensively on 1.8 Α. facet fractures. I've read a number of articles and 19 reports and things over the course of my training and 20 career that have addressed neurological injury from 21 facet fractures. 2.2 Would "The Journal of Neurosurgery" be a 23 Ο. 24 good place to look for information on neurological

sequelae from facet fractures? 1 "The Journal of Neurosurgery" is just one 2 Α. of many journals that has publications on that type of 3 topic. The publications, of course, range. 4 Some would be a higher grade of evidence than others. 5 You've published in "Neurosurgery," 6 Ο. 7 correct? I have. Α. 8 Do you consider it to be a quality 9 Ο. journal? 10 Α. Well, I consider it to be a quality 11 journal. But please remember that quality journals 12 carry a variety of pieces of information. 13 14 And I'm sure you're well aware of the fact that scientific reports can be Grade A evidence, 15 double-blind, randomized, controlled study; or it can 16 be Grade D evidence, which is anecdotal case reports. 17 So we don't claim that these journals are 18 19 authoritative references. They're simply reflections 20 of people's experiences. Well, have you found the articles in 21 Ο. "Neurosurgery" to be accurate and reliable? 22 I have found them to be reasonably 23 Α. reliable. I can't say that's universally true, but 24

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certainly the majority that I've read have been pretty 1 2 reasonable. What about "The Journal of Neurosurgery"? 3 Ο. You've published in that, correct? 4 I have. Α. 5 Have you found the articles in "The Ο. 6 Journal of Neurosurgery" to be accurate and reliable? 7 8 Well, when you say, "accurate and Α. reliable," you know, if somebody's reporting their 9 anecdotal case series, I mean, you know, there's no 10 way to say whether it's accurate and reliable. 11 It may be interesting reading. 12 It may 13 resonate with something that you've seen or experienced as a physician. It may offer a new way of 14 15 looking at an old problem or a new technique for treating an old problem. 16 I think when you're asking me is it 17 reliable, you're implying that there's some scientific 18 19 presentation that I would agree to or sign off on, and those types of articles are few and far between. 20 Those are the types of articles that are 21 double-blind, randomized, and set standards of care, 22 you know, because the evidence is irrefutable. 23 Those 24 types of articles appear only rarely in our

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discipline. 1 You have never conducted a study on the 2 Ο. neurological sequelae from facet fractures, correct? 3 How would you study it? Go and fracture 4 Α. 5 a Have you ever written a paper on that? 6 Ο. I think we started off by reviewing 7 Α. No. my CV and whether any of the publications directly 8 impacted the issues, and I didn't believe it did. 9 Have you ever been involved in a study 10 Ο. 11 where doctors are studying the neurological sequelae from facet fractures? 12 13 I don't know what you mean by your Α. question, but I think that'd be an awfully hard thing 14 to study. But, again, we've gone over my CV and I 15 don't claim to have published or been involved in 16 17 research that has to do with specific topic. Based upon your experience, have you 18 Q. found the articles in "The Journal of Neurosurgery" to 19 be accurate and reliable? 20 MR. REGNIER: Objection. Asked 21 22 and answered. MR. RUF: He's given me circular 23 answers. It's a simple question. 24

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| 1 | BY MR. RUF: |
|----|---|
| 2 | Q. Have you found it to be accurate and |
| 3 | reliable or not? |
| 4 | MR. REGNIER: Objection. Asked |
| 5 | and answered. |
| 6 | THE WITNESS: It's not a simple |
| 7 | answer and it's not a binary answer. |
| 8 | It's not a yes/no answer. The articles |
| 9 | that appear in "The Journal of |
| 10 | Neurosurgery," as in any scientific |
| 11 | journal, are articles that range from |
| 12 | anecdotal reports, single-case reports, |
| 13 | all the way up to double-blind, |
| 14 | randomized trials. |
| 15 | And "accurate and reliable" |
| 16 | would be terminology that I would apply |
| 17 | to a double-blind, randomized trial. It |
| 18 | would not be something that I would apply |
| 19 | to a report in the literature of |
| 20 | somebody's experience with ten facet |
| 21 | fractures or something. |
| 22 | BY MR. RUF: |
| 23 | Q. How about "The Journal of Spine"? Are |
| 24 | you familiar with that journal? |
| | |

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Same answer. Α. 1 Have you read it? 2 Ο. Α. "The Journal of Spine"? 3 4 ο. Yes. I'm familiar with it and I have read it. 5 Α. What journals do you subscribe to? Q. 6 "The Journal of Neurosurgery", 7 Α. "Neurosurgery", "The Journal of Spine", "Surgical 8 Neurology." That pretty much covers the ones that I 9 10 read. And you subscribe to those journals to 11 Ο. stay current on the medical literature and what's 12 going on in medicine? 13 Not really. They come automatically with 14 Α. my membership in the society. I think that, you know, 15 reading the journals does, you know, keep you informed 16 as to what other people's experiences are and what 17 issues are being, you know, highly contested amongst 18 19 the people who have expertise in one area of neurosurgery or another. 20 And I think that's pretty much why I read 21 But I don't necessarily subscribe to them so 22 them. that I remain current in my field. There are many 23 24 ways in which one does that.

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Would you agree that there's articles in 1 Ο. medical literature that document permanent nerve 2 damage as a result of the facet fracture? 3 Objection. MR. REGNIER: 4 THE WITNESS: Well, you can have 5 permanent nerve damage as a result of 6 many things, ruptured disks, facet 7 fractures, et cetera, that wouldn't 8 surprise me at all. 9 I don't know of such an article, 10 but it would be one of those things that 11 you would certainly find if you searched 12 13 the literature, I'm sure. BY MR. RUF: 14 How much time would have to pass before 15 Ο. you would be willing to say that Kimberly Richley's 16 17 condition is permanent? Well, you know, I think if you're talking 18 Α. about healing the bone, six months. A nerve 19 regeneration takes place, like we said, 9 to 12 20 months. 21 22 When you're talking about this sort of 23 vast -- and in my mind, implausible -- pain disorder, I think that's something that would be -- wouldn't 24

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have any time limits. I just wouldn't want to bracket 1 that and say it's permanent after some point in time. 2 Do you know what Kimberly Richley's pain 3 Ο. in her neck is from? 4 Well, as I said earlier in the 5 Α. deposition, I do hundreds of fusions. And those 6 patients with single-level fusion -- I mean, people 7 are born with congenital fusion. They don't complain 8 of loss of motion in their neck. 9 People with congenital fusions don't even 10 know they have them until somebody gets an x-ray. So 11 single-level fusions, they don't tend to complain too 12 much of loss of motion in the neck. 13 They may complain of a stiff, achy 14 sensation, and it may get aggravated when they're 15 particularly active. Those types of complaints are 16 kind of routine. 17 The kind of complaints she's offering is 18 so extraordinary, it would be hard to say what they're 19 due to. But what you could say with some reliability 20 is that they don't reflect the typical patient with 21 the injuries that she's sustained. 22 You have not examined her, have you? Q . 23 Α. I think we've gone over that. 24

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Have you heard of Dr. Likavec? 1 Ο. 2 Α. No, I haven't. Do you ever keep personal notes on a 3 Q. patient outside of the patient file? 4 Do I? Α. 5 ο. Yes. 6 Α. Not that I'm aware of. 7 That's not something you've ever done in 8 Ο. 9 your practice? 10 Α. NO. Have you ever referred a patient for 11 Ο. 12 chiropractic treatment for carpal tunnel syndrome? 13 I can't imagine that I would refer a Α. patient for chiropractic treatment for carpal tunnel 1415 syndrome. Why not? 16 Ο. 17 Well, because I think there's better Α. 18 treatments for carpal tunnel syndrome. Would you agree there's no proven benefit 19 Q. for manipulating the neck for carpal tunnel syndrome? 20 Objection. 21 MR. REGNIER: THE WITNESS: There's no benefit 22 23 for manipulating the neck for carpal tunnel syndrome? 24

BY MR. RUF: ٦ 2 No proven method. Ο. 3 Α. None that I'm aware of. Are you aware of any proven benefit for 4 Ο. manipulating the neck for a sprain/strain? 5 MR. REGNIER: For what? 6 THE WITNESS: Sprain/strain of 7 the neck? 8 BY MR. RUF: 9 10 Ο. Yes. Well, you know, obviously, that's 11 Α. probably the most common diagnosis supporting 12 13 treatment, including chiropractic treatment. I mean, I'm sure that that would be perhaps the most common 14 reason to manipulate the neck. 15 You're saying perhaps. You don't know? 16 Ο. Well, let me put it this way: 17 Α. I used to 18 chair the quality assurance committee at Workers' Comp 19 in Columbus, and we would do all types of comprehensive reviews. 20 And I think, of allowed conditions in 21 22 Workers' Comp systems, sprain/strain was always ranked 23 among the highest. And virtually, I'd say 50 percent 24 or more of those patients would have been treated at

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| | · · · · · · · · · · · · · · · · · · · |
|----|--|
| 1 | some point in their course with manipulation therapy. |
| 2 | Q. Doctor, have you ever referred one of |
| 3 | your patients to a chiropractor for manipulation for a |
| 4 | cervical strain/sprain? |
| 5 | A. Well, I don't use that word. To me, |
| 6 | that's not a diagnosis I would make. But, yes, there |
| 7 | are certainly patients in my practice who come to me |
| 8 | with that diagnosis, oftentimes in the Workers' Comp |
| 9 | system. |
| 10 | I don't find anything surgically curable. |
| 11 | I give them a range of options. If they choose |
| 12 | chiropractic treatment and they haven't got an |
| 13 | established relationship and wanted a referral, I'm |
| 14 | happy to offer one. |
| 15 | Q. Are you aware of any proven benefit to |
| 16 | cervical manipulation for a wrist strain/sprain? |
| 17 | A. No. I have never heard of that. |
| 18 | Q. If a manipulation has no proven benefit, |
| 19 | is that something that should be explained to a |
| 20 | patient before it's done? |
| 21 | MR. REGNIER: Objection. |
| 22 | THE WITNESS: Well, if you're |
| 23 | saying that a manipulation has no proven |
| 24 | benefit, the patient should be informed |
| | |

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| 1 | | of that. |
| 2 | | I guess my only question is: |
| 3 | | What would be a proven benefit? For |
| 4 | | example, is manipulation proven to cure |
| 5 | | anything? I don't know. |
| 6 | | I guess if you're suggesting |
| 7 | | that you're using manipulation for some |
| 8 | | indication which would be unrecognizable |
| 9 | | to your chiropractic peers, that might be |
| 10 | | something you want to discuss with your |
| 11 | | patient. |
| 12 | | But I would say that if you |
| 13 | | demanded double-blind, randomized, |
| 14 | | absolute proof before you did |
| 15 | | manipulation, there probably would be |
| 16 | | very little in chiropractics that you |
| 17 | | could do without sitting down and telling |
| 18 | | your patient that it hasn't been proven |
| 19 | | by a double-blind, randomized scientific |
| 20 | | trial. |
| 21 | BY MR. RUF: | |
| 22 | Q. | Have you done any research for this case? |
| 23 | Α. | No. |
| 24 | Q. | Doctor, would you agree, bottom line, |
| | | |

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it's unacceptable to break a patient's neck due to any 1 type of medical treatment? 2 Objection. 3 MR. REGNIER: Go ahead. 4 I quess it would THE WITNESS: 5 be unacceptable to break a patient's 6 neck. 7 8 BY MR. RUF: I mean, that's not something you want to 9 Ο. do, right? 10 11 Α. That's correct. MR. RUF: Why don't we finish on 12 13 that note. MR. REGNIER: Do you want to 14 15 review it? THE WITNESS: I'll review it. 16 (Deposition concluded and 17 witness excused at 6:50 p.m.) 18 19 (Signature reserved.) 20 21 22 23 24

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SIGNATURE PAGE 1 2 Date of Deposition: September 24, 2004 3 Correction page(s) enclosed? Yes___ No____ 4 How many correction pages? 5 6 PATRICK W. McCORMICK, M.D. Date 7 8 9 10 11 1213 1415 16 Please return this signed signature page along with 17 correction page(s) to: 18 COLLINS REPORTING SERVICE, INC. 405 North Huron Street 19 Toledo, Ohio 43604 (419) 255-1010 20 21 22 Worksheet No.: RS04-3482 23 24

| 1 | CERTIFICATE |
|----|--|
| 2 | I, Robert W. Scheid, Jr., a Notary Public |
| З | in and for the State of Ohio, duly commissioned and |
| 4 | qualified, do hereby certify that the within-named |
| 5 | witness was by me first duly sworn to tell the truth, |
| 6 | the whole truth, and nothing but the truth in the |
| 7 | cause aforesaid; that the testimony then given was by |
| 8 | me reduced to stenotype in the presence of said |
| 9 | witness and afterwards transcribed; that the foregoing |
| 10 | is a true and correct transcription of the testimony |
| 11 | so given as aforesaid. |
| 12 | I do further certify that this deposition was |
| 13 | taken at the time and place in the foregoing caption |
| 14 | specified. |
| 15 | I do further certify that I am not a |
| 16 | relative, employee of or attorney for any of the |
| 17 | parties in this action; that I am not a relative or |
| 18 | employee of an attorney of any of the parties in this |
| 19 | action; that I am not financially interested in this |
| 20 | action, nor am I or the court reporting firm with |
| 21 | which I am affiliated under a contract as defined in |
| 22 | the applicable civil rule. |
| 23 | |
| 24 | |
| | |

405 N. Huron Street

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal of office at Toledo, Ohio on this 12th day of October , 2004. l gr ROBERT/W. SCHEID, JR. Notary Public in and for the State of Ohio My Commission expires May 29, 2008.

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