THOMAS M. KOENIG, M.D., 16 having been first duly sworn, was examined and 17 deposed as follows: 18 19 DIRECT EXAMINATION BY MR. ENGLISH 20 Would you state your name for the 21 record? 22 Sure. Thomas Martin Koenig, M.D. 23

Dr. Koenig, my name is Bob English, as

you know, and I'm here to ask you some questions about my

24

time, ten years, then you had to re-sit for Boards again. And you did so's 16 Yes, sir. I think I'm good through the year 2014, if I'm not mistaken. I have a cv, if you'd 18 19 like. 2.0 Doctor, we have a copy of your CV Would you hand that to the doctor and see if that's the 22 most recent CV he has, Ms. Court Reporter?
23 A Yes. That is correct. And I'm recertified through the 31st of December, 2014 24 25 MR. ENGLISH: Let's make your CV Exhibit

24 me those before the deposition, and I've had a chance to

25 leaf through those.

25 way. The patient should be taught that he should go to

CondenseIt! TM NEELY v. FOX OF OAK RIDGE that point of pain and back it down just a little bit so 1 neck first? it's not painful for him. Is this helping him, according to what 4 he reported to you? 5 A Yes. He had reported that he had 6 benefits from it from when Dr. Degnan had prescribed it, and thus we re-prescribed it. Doctor, explain to the Court and jury these two MRI's of his neck and his low back that you 10 ordered. Exactly what is that, and how does that work and 11 what does it show? 12 A Sure. I think probably the nicest way 13 to understand that would be the following: If you took a look at a patient much like a baker might look at a loaf of 15 bread, and they don't teach you medical art work in medical school, but I'll try here, that's a loaf of bread as best 17 as I can draw it here, you might -- by looking at the 16 lack of range of motion. 17 outside, you can thump it, you can put your stethoscope on it, you can squeeze it, and you might never learn that 18 19 20 there was a baked-in walnut that fell into this batter, yet 21 if I gave you a tool, like a knife, you could take several 20 Okay 21 22 slices. These slices, the ones I've drawn here, show 23 normal white bread, no problems. This slice, however, 24 would show you a little sliver of walnut, the problem, the 25 defect, the pathology. This slice here would show you a Page 20 1 big chunk of walnut. This slice here would show you a 2 sliver of walnut, and then you'd be back to white bread. 3 And in short, out of this study, only this portion, these 3 but --4 three slices, would be abnormal, and the MRI does a similar That's not necessary. process with the neck or with the back. It takes this as a loaf of bread, and it makes several slices, and it images those. It's as if you took that slice out, took a black and white picture of it, and then you could take a look at those slices and see where is there a defect, where is 10 there a problem. Did the MRI of his neck show any defects 12 that you feel are attributable to the wreck? Yes, sir. The MRI did verify that he 14 had a C4-5 degenerative disc disease with left sided disc 15 protrusion. What is a protrusion, Doctor? Protrusion, this is if you think of 17 18 these discs over here, Mr. English, as if this were a jelly 19 donut. Yes, sir. And if this were degenerative and 20 21

22 squished in height and you were to squish your jelly donut, 23 the jelly has to go somewhere and the jelly will go out the 24 weakest part. It will go out the hole that was used to 25 fill that donut. Well, that jelly coming out is going to

A Yes, sir. I utilized the A.M.A. Guides to the Evaluation of Permanent Impairment, Fifth Edition, to calculate his impairment. This is a Bible, if you will. It's a gold standard, so it's not just the doctor's thumb that says, oh, I think he deserves five percent here or 7 whatever. I carefully tried to delineate that and itemize 8 that for you and anybody else that was interested. In 9 regard to his cervical spine, he has some limited range of 10 motion. He can't bring his chin down all the way to his 11 chest. He can't bring his chin up all the way to the 12 ceiling. He can't rotate fully to the left and right. He
13 can't laterally bend this way, to the right and left
14 either, and when you take all that and you use the A.M.A. 15 Guides, he comes up with a sixteen percent impairment for Okay. To the neck?
To the neck. Yes, sir, I'm sorry. I believe that was your question, to the neck. And I apologize if I was vague. You also utilizing the A.M.A. Guides, can add additional

23 impairment because of actual spine pathology or what they call spine disorders, and in that regard, when you take a 25 look at these sick discs that are there, he could have an

Page 23 1 additional seven percent impairment, and again, I'm 2 abridging this, I'm happy to go into how I got that seven,

But it was seven percent because of the specific spine disorders. One might sit there and say, well, look, just add the two of them, you've got a range of motion impairment and a spine disorder impairment, seven and sixteen should equal twenty-three. However, the A.M.A. Guides is trying to be fair, and it realizes, look, if you 11 already have one impairment, adding another one is not 12 necessarily arithmetically accurate. You need to look at 13 this aggregate, put it together. It's kind of like if you already have an amputation here and you receive another 15 amputation here, is that as much of a deficit to that 16 patient as if you just had amputated a person from here once. This little bit doesn't add that much.

In short, these numbers aren't added, they're combined. They use a special table called the combined values chart, Page 604, and that totals a twenty-two percent impairment to the cervical spine.

Q Would that be to the body as a whole?

22 To the body as a whole, but for his 23

24 pathology of his neck. 25

Okay. Does he have any preexisting

1 go out the weakest part, which is, unfortunately in Mr.
2 Neely, towards the back, and that's where his nerve roots
3 arc. The nerve roots are these little yellow structures 4 right over here and because the jelly went out and is pushing on there, it can cause an irritation to the nerve. What's fortunate, though, is that Mr. Neely does not suffer what we call true radiculopathy to whereby he has a mash defect whereby any one of these nerves has a decreased reflex or decreased strength or he has numbress and tingling just dedicated to that nerve. So it's not likely 11 that operating on these discs is going to substantially 12 make him better. Q Have you ever done an operation on a disc in someone's neck, Doctor? Yes, sir. On how many occasions, roughly? 16 Probably a hundred in the neck and a 17

14 15

18 hundred in the lumbar spine.

Q Is it your professional opinion that surgery in his neck or his low back will not help him?

A I think he would have less than a fifty 19 20 21

percent chance of improvement. 22

Do you have an opinion, Doctor, as to 24 whether or not this man suffers any permanent impairment as 25 a result of the wreck that we're here about today to his Case 3:05-cv-00304 Document 16-1

Page 24 impairment to the cervical spine that you need to deduct from that in order to be fair?

A Yes, sir. And that's what we tried to do. We tried to actually anticipate that, and we said, look, he's got some preexisting problems and because of the congenital problems that also existed here that you didn't specifically ask me about, but he's got some congenital 8 issues here as well. I doubt he had full range of motion 9 to begin with. I used my clinical judgment to figure out 10 what do I think based on his history and based on the pathology on the x-rays and CT scan, what was it likely that he had even though he said he had no problems, probably he had some minor problems that he was unaware of, 14 and in that regard, I found that he had a -- an eight percent impairment to the person as a whole in regard to the cervical spine that was preexisting.

Q Okay. So when you subtract that from 16 17 the twenty-two percent impairment, what is his total impairment to the person as a whole concerning his neck injury as we sit here today, in your opinion?

A Yes, sir. Give me one second.

paragraph, Doctor. Thank you. Yes, and that can be 25 arithmetically accomplished whereby it would be a straight

I'll refer you to Page 8, the second

Page 4 of 11 PageID #: 9 Filed 06/02/06

2.1

23

that you saw on these two MRI films concerning this man?

14 A Oh, this is without a doubt objective.
15 He has disc bulges, and I doubt anybody would refute that. 16 The one thing that you can't definitively state, just based on looking at the film, is was this old, was this new.

18 That requires judgment, it requires taking a history, and 19 that gets to be where the report itself might not say that 20 this is motor vehicle accident related. This is not --

21 that's why my report says that.

Q Okay. Assuming he was in a motor vehicle accident, he was hit from the rear hard enough to 24 break his seat back, is that consistent with the protruding 25 discs and the bulging discs you found in his neck and his Q Do you have an opinion, Doctor, as to whether or not this man is capable of gainful employment at 16 this time as a psychiatric technician or working with 17 psychiatric patients? 18

MR. WOODFIN: Objection. That's beyond the scope of his expertise, but go ahead and

20 answer the question. 21

MR. ENGLISH: Go ahead, please. I will state that I do feel comfortable 23 answering that question, and I've seen him multiple times, 24 and I believe that he does not have the ability to be 25 gainfully employed as a psychiatric technician, as I would

19

2 try various limited duty attempts. Sometimes he

t benefits of that study, the physician can use his thumb and

3 undershoots, sometimes he overshoots. It was my opinion

that he could not tolerate the fifteen pounds of repetitive

Page 34

Page 36

lifting that we attempted to get him to do in July, so I overshot the mark in July; I asked him to do too much. So you think he should have been restricted from doing anything from the first time that you saw him up until the time that you last saw him here in A No, sir. I think it was appropriate to try it in July. I don't think that there was an error in medical decision making. I think that I just was overly 14 hopeful that he would be able to do that." Q When you say he is not able to do anything, are you saying he needs to sit in a bed for a complete day and not do any activity at all?

A What I'm saying is that this gentleman
probably can't even tolerate sitting in bed for eight
the spoing to have to sit, stand. He's going to 21 have to move his self to a recliner. He's going to have to 22 walk, he's going to have to pace. In that regard, no to
23 your question, simply, and similarly at the workplace do I
24 think he could sit and just answer a phone, I don't think 25 so. He's going to have to stand, he's going to have to

Page 32 1 those were amended further to whereby he was placed on no 2 duty on the 15th of November, 2005. What does that mean, sir, in your 4 opinion? A Meaning that I really don't think he could do anything. When I saw him in the office, let's say, on the 15th of November, I saw him for forty-five minutes to an hour and during that time the man just could not sit or lay still or stand still. He was constantly having to change positions. I don't think that he would 11 have been employable in that regard. He would have been a 12 distraction to any workplace with as frequently as he had 13 to move to try to keep himself in some semblance of 14 comfort. Doctor, do you have an opinion as to 16 whether or not this man will suffer pain in the future as a 17 result of these injuries? Yes, sir. I think that that

19 unfortunately also is permanent, and that's the reason why we sent him to a pain management consultation through Dr. 21 Browder. Will he require medications to alleviate 23 the pain of this wreck and injuries in the future?

Most likely. Have you done everything that you can 2.5 Q

Page 35 1 sit, he's going to have to lie down for a short period of 2 time. I know that I couldn't employ him in a clerical position in my office, and I certainly couldn't employ him to do any manual labor in my office. Do you have any training as a vocational assessor? 6 Indirect training in the fact that I have substantial -- how can we put it, in the fact that I deal with a lot of vocational reports. I discuss with vocational rehabilitation counselors various options and how they orthopedically or mechanically can be potentially adjusted or improved, so I have a fair bit of experience, but, no, sir, I'm not a vocational rehabilitation 14 counselor. Do you have any training in what jobs are available for disabled people in this area? A I have a good general idea. Do I have
the ability to know that at this particular time that one
company "X" has a job that's opened, no, sir.

Q Is that general ability similar to what any of us who have an understanding as to what work 21 involves has?

I would think it would be similar to 23 what any other Board certified orthopedic surgeon has in 25 the area.

for him at this time from an orthopedic standpoint, Doctor? 2 Yes, sir. 3 MR. ENGLISH: I believe that's all. CROSS EXAMINATION BY MR. WOODFIN Dr. Koenig, my name's Clint Woodfin, and

I represent Mr. Curd and Fox of Oak Ridge in this lawsuit. Mr. Curd was driving the vehicle that rear-ended Mr. Neely's vehicle. If I understood your testimony correctly 10 about his restriction, you have changed the restriction 11 that you had him on since July of 2004 as of 11-15-05; is 12 that correct'

That was correct. I just want to make sure I heard the dates correctly. He was -- we attempted to put him back to work on a limited duty basis, very limited, in July, and I responded as such to Mr. English's question. He said as of July, what was his duty status, 18 and then on the 15th of November, 2005, he was placed on no 19 duty.

And that original restriction didn't change until November 15th, 2005, correct?

A That's correct. Please understand that this gentleman has never had a Functional Capacity 24 Evaluation, which would objectively describe exactly what 25 this gentleman can and cannot do. When you don't have the

No more or no less? No more, no less. And as far as whether or not you've ever

actually performed a vocational analysis on someone, I think that would be no? That is correct.

You mentioned his inability to do these activities, and I'm thinking that's primarily based on the complaints of pain that he's relating to you, correct? Based on the complaints of pain coupled

11 with the objective findings on MRI, CT scan and plain films as well as a physical examination that's repetitively done.

Q There are no objective indications which

would lead you to conclude that if he tried to do anything,

would hurt himself, are there?

15 he would hurt himself, are there?

16 A Not within the fifteen pounds that he
17 was allowed to do back in July. I don't think that the
18 fifteen pounds would hurt him. I just don't think that he 19

was able to do the fifteen pounds.

Q And that's still the same in November of 2005, when you last saw him? There's nothing objective that you can point to that says if this man tries to do something, he's going to hurt himself?

I think if he tried to lift more than 25 fifteen pounds again, I think that he would fail again. Page 38

you in giving an opinion about the causation, is it not? It is certainly a factor. Yes, sir.

1 day, the surgeon is going to use his thumb. I'm going to 2 sit there and say that's approximately thirty degrees worth of flexion. I'm not going to use other instruments like inclinometers and goniometers to test. Whenever I'm actually asked to tabulate, to calculate what an impairment is, I'm going to do it by the book and I'm going to sit there and say, look, let's do it with an actual measuring stick, not my thumb. That also would account for the minor differences because we're talking primarily about ten. differences because we're talking primarily about ten degrees plus or minus, and that would probably be either due to some slight change in the patient or the difference between my thumb and an actual ruler or what we call a goniometer or inclinometer. How much degree motion does he lack in his neck? 15 16 Well, on which day, sir? Let's say on the last day. 17 A On the last day. All right, fine. I would be glad to do that for you. Allow me to just look at 18 19 my notes. All right. On the 15th of November, the patient was able to tolerate twenty degrees of flexion. I'll try to show you what roughly twenty degrees of flexion is. I

do have to tell you that I can't put an inclinometer and read it on myself, so I'm giving you a rough approximation, but in short, and I'm going to turn myself to the side so

In this case, given the findings on the test which don't show any broken hones or any acute abnormalities, the history is what allows you to tie it into this accident; is that correct?

A It does show some equivocal acute abnormalities, and those are clearly labeled as equivocal.

Q In your report, you say they're equivocal because they might be related to degenerative changes, they might be related to the accident?

A Yes, sir. 10

And then you listen to the patient

telling you I was not hurting before this accident, I'm 13 hurting now, and that's how you tie it in? 14 A Yes, sir. That is a key factor.

15 However, please understand despite the fact that he told me

16 he did not hurt in regard to his neck, I tried to be fair
17 to the patient as well as fair to your client, as fair to
18 Mr. English, as fair to the system. I've got to meet my 19 maker somewhere down the pike, and I try to be fair to him, 20 too. And in short, I said to myself, you know what, I 21 don't think that he, the patient, can accurately assess 22 this in regard to his neck as well as I can. I know for a

23 fact, or I should state within a reasonable degree of 24 medical certainty, this is your field, not mine, that he 25 probably did not have full range of motion of his neck

you can see this, this is roughly twenty degrees of 2 flexion, this would be thirty and this would be forty and 3 this would be fifty, fifty would be full. So in short, 4 he's missing the terminal or the last thirty degrees of flexion. In regard to extension, this is neutral. He tolerates about twenty degrees of extension. That means

he's missing thirty, forty, fifty and sixty degrees of normal extension, so he's missing that amount.

Q And in performing these tests, I think you've referenced it in your notes, you're asking the patient to move his neck, and he's doing it according to 10 12 his effort as much as he can.
13 A He's doing it to the best of his

14 ability. He's doing it multiple times, and the maximum 15 amount of movement is registered.

Q And I think you put in your notes that he was making complaints to you of, "Oh, no, that's it, I 17

he was making companied can't do any more"?

A Yes, sir. And, of course, that means a certain level, and I mean 19 that you push within a certain level, and I mean I'm not here to crack a whip on the gentleman. I'm going to try to 22 report this as accurately as possible, and you are correct in the fact that he did verbalize that he didn't want to go

24 further than it hurt. 25 And that's a day he knows he's being

1 given the pathology that was there before, and what I tried 2 to do was discount what he told me appropriately and 3 validly and do it in concordance with the A.M.A. Guides as 4 they direct and come up with a number that hopefully does adequately represent this gentleman's impairment as he stands on that day with numbers that specifically state how much is attributed to what was preexisting and with numbers that could then be figured out as to what happened through the motor vehicle accident. Speaking about his neck, and I think you

mentioned it, you say as he's standing here this day
On the 15th of November. I apologize.

I understand what you're saying. The 14 range of motion, though, can differ from day to day, can it 15 not?

16 And I think you're looking at your 17 18 chart, and you can correct me if I'm wrong, his range of motion was actually greater on the visit previous than it was on the visit of November 15, 2005, in his neck.

A In certain areas, you're correct. In certain areas, you're incorrect. For instance, thirty 23 degrees of rotation to the left of midline is maintained on 24 both days. Please also understand the following: Whenever 25 a patient is seen on days other than an impairment rating

1 evaluated for impairment that you're doing that obviously? That is correct. I do believe he knew

that he was being evaluated that day.
 Q His effort is not something that you can

measure objectively, can you? A Functional Capacity Evaluation does a

pretty good job of measuring that.

Q When you're asking him to move his neck

up and back, there's no way you can objectively measure how

10 much effort he's giving?

11 A No way that I can on that limited exam

12 in the office. That's correct. However, again, in an 13 effort to give you the most complete answer, a Functional 14 Capacity Evaluation does have the ability to determine 15 effort, validity of effort and thus also validate the

17 Some of the other measures of validity are history that's given to you and its consistency with 19 other history as well as his effort and tests that you give 20 him from an orthopedic standpoint, correct?

21 Yes, sir. In his first visit with you, he talked about the accident. I believe he told you that he'd broken 24 his tailbone back in 1982; is that right? 25 I do remember a reference to that,

Case 3:05-cv-00304 Document 16-1 Filed 06/02/06 Page 7 of 11 PageID #: 12 Page 37 - Page 42

Page 41

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DEPO - THOMAS M. KOENIG, M.D.

Page 43 1 visit that he was treating with Dr. Degnan and that he was 2 giving complaints that, quote, "Went in one car and out the 3 other"? Show the jury, if you would, what we're 2 talking about there. 3 A Sure. If you don't mind, I'm going to 4 turn this around this way. This is his tailbone. I'll 5 turn it to the side because I think that that's going to Yes, sir. That's his history. 4 5 Did you also review the report from the 6 show up better for the camera. The tailbone typically is 7 broken here at the junction of the sacrum -- 1'll do it 8 this way. Here's where your sacrum ends. This is your emergency medical technicians that saw him at the scene of the accident? I know that I reviewed the emergency 9 coccyx. Usually there's a fracture right here whereby this room report per se. If you have a reference for me to --9 10 then tips forward and comes up this way. That's what we're Let's stick with that emergency room 11 report. I think that's what my notes said, and I just 11 talking about. And you don't know how that happened? 12 misread it. A No, sir, nor did I really need to
14 evaluate that. That was taken as part of his history, and
15 that is if you will, sir, effectively an orthopedic mile
16 away from where his other pathology is. You can't be off Okay. 13 Again, looking at that with regard to the lack of loss of consciousness, there was also a note 15 that there's minimal damage to his vehicle in that report 17 this much as an orthopedic surgeon and not get in trouble. as well? 18 So in short, this ends up -- he could have told me he
19 fractured his great toe as well and it impacted his
20 impairment the same way. He received neither additional 18 Yes. That's what I noted in the 19 emergency room reports dated the 12th of July, 2004. Q He then saw you ten days later on the 22nd of October of 2004, correct?

A Yes, sir. 20 21 nor a discount in his impairment rating because of that 1982 fracture down here. 22 23 Q You made a finding there that there was 24 a bruise on his back that you didn't see on the first If he had had some trauma which caused a 24 jarring of his spine, would that not be important to you? All history would be important. Yes, 25 visit, if I read that correctly. Page 44 Page 47 Yes, sir. Okay. Any explanation for that? Sometimes it will take a little bit And that could possibly impact the Q 3 status of his discs or the level of degeneration that was 4 present that you saw? longer for bruising to occur, especially on a gentleman MR. ENGLISH: I'm going to object to this large. If the bruising occurred at a muscle that was, possibly. Many things could possibly impact it.

Q Assuming that to be correct that he had let's say, an inch and a half deep, sometimes it takes awhile for the bloody pigment, the biliverdin and the some trauma to his tailbone, you would expect that there would be some trauma on the discs, would you not?

A Not necessarily. I think I could tell hemoglobin to penetrate up to the skin. That's one possibility Three months and ten days? I agree with you. That's probably 10 11 you that there would be a fair number of patients that 11 Α 12 could have a coccyx fracture and have no other spinal pushing it. 13 pathology, but you are correct in the fact that if you had 14 enough trauma to break a bone here, it's possible to have 13 So there's really no explanation why that bruise is there? 14 enough trauma elsewhere to do damage elsewhere. Yes, sir. 15 No, sir. Especially a man this size? Yes, sir. 16 16 Okay. I think you had wanted to start treating him for his neck in November of 2004, and I think you explained that you did one part at a time and finally Someone who's three hundred and thirty, then the neck came available, but it looked like November 19 three hundred and fifty pounds, if there was trauma sufficient to crack their tailbone, that would also have an impact on their lower lumbar spine, would it not? 20 was when you first wanted to do that?
21 A Yes, sir. That would be typical that we would add one body part per visit. If you could use the word possible, I 23 could say yes. In looking at your notes, it looks like 23 24 for whatever reason that day, there was a child And you just don't know because you 25 didn't find out one way or the other? 25 accompanying him that was running around in the examining Page 45 Page 48 That's correct. 1 room, and you didn't get to work on his neck that day? Yes, sir. Were you shown pictures of the vehicles in this accident? He had had his MRI for his low back at A I believe I was, and if I did, I would have referenced that. If you'll give me thirty seconds --4 that time, and that's when you noted he had this congenital 5 defect in his lumbar spine? 5 I believe you were -- okay. Yes, sir. Λ I apologize that I don't have the And that was there before the accident, immediate recall to say yea or nay. I do believe I was shown pictures. However, if I was shown pictures, I do as you've told us? 8 Yes, sir. to believe I would have recorded them as such. I've looked Whether or not that was giving him a 11 through the first two notes that I had where you would problem, you only know based on the history that he gave 11 12 think that he would have presented them on the first or you that it was not problematic, and that's what you're 13 second office visit, and I don't have that recorded. So basing that on? 13 14 I'm sorry that my memory cannot definitively state whether 14 or not I was shown pictures of the motor vehicle accident.
 Q Okay. Back again to that first visit, 15 Q You started focusing on the neck in 16 December of 2004, and you said you doubted there was any 17 he also told you that he lost consciousness at that time, cervical radiculopathy present, correct? Yes, sir. 18 did he not? 18 And that means there wasn't anything 19 Yes, sir. You have reviewed the emergency room pressing on the nerves from what you saw on the MRI which 20 21 record either from receiving it from the attorney or from 21 would cause him pain and numbness in his arms? Mr. Neely himself that noted in that record that he did not 22 Yes, sir. 23 lose consciousness? 23 But he was making complaints of pain and That's also correct. 24 numbness in his arms? 25 He was reporting to you on that first 25 Yes, sir. That would be what we were --

Filed 06/02/06

Case 3:05-cv-00304 - Document 16-1

-Page 8 of 11 PageID #: 13

24

25

Α

Q

Yes, sir.

Correct?

24 back to work multiple times. I've tried to get him to be

25 comfortable at work. I've tried to get him to be

2.0

24

25

THE WITNESS: Sure. Please understand

time had taken place between when the injury occurred and when I was seeing him. There was no

the reason why was that a sufficient period of

substantial improvement or no improvement

Case 3:05-cv-00304 Document 16-

Page 10 of 11 PageID #: 15 Page 55 - Page 60

You were beginning to see Mr. Neely upon

Mr. Inman, I think, was the person who

certainly tried to do all three.

24 referral of his attorney, correct?

22

23

25