ALBERT KING

LLOYD VS. FIRST CHOICE TRUCKING AND REPAIR, INC.

JANUARY 15, 2003

BIENENSTOCK COURT REPORTING & VIDEO

BINGHAM FARMS, MICHIGAN 248.644.8888

Page 1		Page 3
IN THE DISTRICT COURT OF THE UNITED STATES	1 7	roy, Michigan
2 FOR THE EASTERN DISTRICT OF MICHIGAN	2 1	Vednesday, January 15, 2003
3 SOUTHERN DIVISION	3 1	0:20 a.m.
4	4	
5 JOY CECELIA LLOYD and CLARIDON LLOYD,	5	MARKED BY THE REPORTER:
6 Plaintiffs,	6	DEPOSITION EXHIBIT NUMBERS 1-9
7 vs. Case No.00-72171	7	10:11 a.m.
8 Hon. Paul D. Borman	8	VIDEO TECHNICIAN: This is the beginning
9 FIRST CHOICE TRUCKING AND REPAIR, INC.,	9	of this videotaped deposition. The date is
0 a foreign corporation, and WILLIE PAUL	10	Wednesday, January the 15th, 2003. The time now is
1 JACKSON, Jointly and Severally,	11	10:20 a.m.
2 Defendants.	12	This is the case of Lloyd versus First
3 /	13	Choice Trucking, et al., case number 00-72171. This
4 PAGE 1 TO 104	14	videotaped deposition is taken of Dr. Albert King,
5	15	located at 1301 West Long Lake Road, Troy, Michigan.
6	16	Madame Court Reporter, will you please
7 The Videotaped Deposition of ALBERT KING,	17	swear in the witness?
8 Taken at 1301 West Long Lake Road, Suite 250,	18	ALBERT KING,
9 Troy, Michigan,	19	was thereupon called as a witness herein, and after
O Commencing at 10:20 a.m.,	20	having first been duly sworn to testify to the
Wednesday, January 15, 2003,	21	truth, the whole truth and nothing but the truth,
Before Kimberly H. Kaplan, CSR-5096.	22	was examined and testified as follows:
3	23	VIDEO TECHNICIAN: Thank you.
4	24	Counselors, will you please briefly
5	25	introduce yourselves?
Page 2		Page 4
1 APPEARANCES:	1	MR. GURSTEN: Steven Gursten. 1'm here
2	2	for Joy Lloyd.
3 STEVEN M. GURSTEN	3	MR. SZTYKIEL: And Witold Sztykiel on
4 Gursten, Koltonow, Gursten, Christensen & Raitt, P.C.	4	behalf of First Choice Trucking.
5 26555 Evergreen Road	5	VIDEO TECHNICIAN: Thank you.
6 Suite 1530	6	Please continue, Mr. Gursten.
7 Southfield, Michigan 48076-4362	7	MR. GURSTEN: Thank you.
8 (248) 353-7575	8	This is the discovery deposition of Dr.
9 Appearing on behalf of the Plaintiffs.	9	Albert King, taken pursuant to notice, to be used
0	10	for all purposes, under all applicable rules.
1 WITOLD SZTYKIEL	0.50	Mr. King my name is Steven Gursten.
	11	MI. King my name is steven Guisten.
2 Bigler Berry Johnston Sztykiel & Hull, P.C.	200	전 현대 (1.4.) - 100
2 Bigler, Berry, Johnston, Sztykiel & Hunt, P.C. 3 1301 West Long Lake Road	12	Hello. THE WITNESS: Hi.
3 1301 West Long Lake Road	12 13	Hello. THE WITNESS: Hi.
3 1301 West Long Lake Road 4 Suite 250	12 13 14	Hello. THE WITNESS: Hi, MR. GURSTEN: How are you today?
3 1301 West Long Lake Road 4 Suite 250 5 Troy, Michigan 48098-6348	12 13 14 15	Hello. THE WITNESS: Hi. MR. GURSTEN: How are you today? THE WITNESS: Good, thank you.
3 1301 West Long Lake Road 4 Suite 250 5 Troy, Michigan 48098-6348 6 (248) 641-1800	12 13 14	Hello. THE WITNESS: Hi, MR. GURSTEN: How are you today?
3 1301 West Long Lake Road 4 Suite 250 5 Troy, Michigan 48098-6348 6 (248) 641-1800 7 Appearing on behalf of the Defendants.	12 13 14 15 16 17	Hello. THE WITNESS: Hi, MR. GURSTEN: How are you today? THE WITNESS: Good, thank you. MR. GURSTEN: Good. EXAMINATION
3 1301 West Long Lake Road 4 Suite 250 5 Troy, Michigan 48098-6348 6 (248) 641-1800 7 Appearing on behalf of the Defendants.	12 13 14 15 16 17	Hello. THE WITNESS: Hi, MR. GURSTEN: How are you today? THE WITNESS: Good, thank you. MR. GURSTEN: Good. EXAMINATION BY MR. GURSTEN:
3 1301 West Long Lake Road 4 Suite 250 5 Troy, Michigan 48098-6348 6 (248) 641-1800 7 Appearing on behalf of the Defendants. 8 9 ALSO PRESENT:	12 13 14 15 16 17 18 1 19 (Hello. THE WITNESS: Hi. MR. GURSTEN: How are you today? THE WITNESS: Good, thank you. MR. GURSTEN: Good. EXAMINATION BY MR. GURSTEN: Q. You have had a chance to have your deposition taken
3 1301 West Long Lake Road 4 Suite 250 5 Troy, Michigan 48098-6348 6 (248) 641-1800 7 Appearing on behalf of the Defendants. 8 9 ALSO PRESENT: 0 Steven Binsfield - Video Technician	12 13 14 15 16 17 18 1 19 (Hello. THE WITNESS: Hi. MR. GURSTEN: How are you today? THE WITNESS: Good, thank you. MR. GURSTEN: Good. EXAMINATION BY MR. GURSTEN: 2. You have had a chance to have your deposition taken in the past?
3 1301 West Long Lake Road 4 Suite 250 5 Troy, Michigan 48098-6348 6 (248) 641-1800 7 Appearing on behalf of the Defendants. 8 9 ALSO PRESENT: 0 Steven Binsfield - Video Technician	12 13 14 15 16 17 18 1 19 20 21	Hello. THE WITNESS: Hi, MR. GURSTEN: How are you today? THE WITNESS: Good, thank you. MR. GURSTEN: Good. EXAMINATION Y MR. GURSTEN: You have had a chance to have your deposition taken in the past? Yes.
3 1301 West Long Lake Road 4 Suite 250 5 Troy, Michigan 48098-6348 6 (248) 641-1800 7 Appearing on behalf of the Defendants. 8 9 ALSO PRESENT: 0 Steven Binsfield - Video Technician	12 13 14 15 16 17 18 19 20 21 22 (22	Hello. THE WITNESS: Hi. MR. GURSTEN: How are you today? THE WITNESS: Good, thank you. MR. GURSTEN: Good. EXAMINATION BY MR. GURSTEN: O. You have had a chance to have your deposition taken in the past? A. Yes. O. Many times?
3 1301 West Long Lake Road 4 Suite 250 5 Troy, Michigan 48098-6348 6 (248) 641-1800 7 Appearing on behalf of the Defendants. 8 9 ALSO PRESENT: 0 Steven Binsfield - Video Technician	12 13 14 15 16 17 18 1 19 20 21 22 (23	Hello. THE WITNESS: Hi, MR. GURSTEN: How are you today? THE WITNESS: Good, thank you. MR. GURSTEN: Good. EXAMINATION Y MR. GURSTEN: You have had a chance to have your deposition taken in the past? Yes.

Г		Page 5	T	-	Page 7
١,		questions, so please, you will not offend me, in any	١,		have a chance to review these papers before we take
2		way, if you don't understand one of my questions or	2		your trial deposition, so is there some time this
3		you're not sure. Just stop me. I'll be happy to	3		week, preferably as early as possible, where you may
4		repeat it or rephrase it, okay?	4		be able to provide me these papers through your
		Okay.	5		attorney?
	Q.	- 1041 - 1050 and - 20 - 20 - 20 - 20 - 20 - 20 - 20 - 2	1 3		The earliest I can do is, get a CD made tomorrow and
7		experience, so if you need to take a break, or get	7		deliver it to Mr. Sztykiel on Friday.
8		something to drink or what have you, please just let	8		MR. SZTYKIEL: 1 have no objection if you
9		me know and I'll be happy to accommodate you any way	1.6		just deliver it directly to his office.
10		I can.	10		THE WITNESS: Or I can Fed-Ex to you
1		All right.	11		directly tomorrow.
	Q.		12		MR. GURSTEN: That would be very helpful,
15%		Okay.	13		thank you.
		If you don't understand my question, you'll stop me			MR. GURSTEN:
15		and tell me so?	15		Okay. So with the caveat that you will provide
19014		Yes.	16		those additional papers, the last exhibit, Exhibit
		And likewise, if you do answer one of my questions,	17		Number 9, is the well, why don't you tell me what
18		is it safe to assume that you understood it, if you	18		this is?
19		answered it?	1000	Α.	
12.33		Correct.	20		body model, very similar to what Dr. Ziejewski did,
21		Okay. Let's get started then. We've marked a	21		but with our own data modified — with a modified
22		number of exhibits. The first is your CV, your	22		data set.
23		curriculum vitae? That's Exhibit Number 1.	10.8	Q.	
		Yes.	24	-	program that you use, the articulated total total
		Is this accurate and up-to-date?	25		body
7	4.	DAM SUDJECT (ATTENDED TO SEEK SCHOOL OF ACTION	1	2	
1		Page 6		4	Page 8
		As of December of last year.			This is yeah. It's the same program as Dr.
		Okay. So as of a few weeks ago? Yes.	2		Ziejewski used. What I want to know then is, are all of the
		Okay. And then, Exhibits 2 through 7 are five of	1000	Ų.	calculations, are all of the formulas, mathmatical
5	Q.	the six papers that you listed on page four of your	5		equations that you have used in this case, and is
6		report, under the heading of references, with the	6		all the raw data that you have input to make those
7		caveat that the very last paper, which is titled A	7		calculations contained in Exhibit Number 92
8		New Biomechanical Predictor for Traumatic Brain	100	Λ	I don't know if the input is in there.
9		Injury a Preliminary Finding, that that is not here,			Well, I need to know what the input is so I know
10		but that you will provide it through your counsel,	10	×.	what the output was and how you may have influenced
11		who has retained you, as soon as possible; is that	11		it. How do I find out what the input was?
12		correct?	1100	Δ	Well, I can give you those, too.
	Α.				By tomorrow again?
14	4.41	report and reference number five, I did not provide.	0.555		Yeah. I can put that on a CD, as well.
	Q.	Okay. Would you then mind also providing those	000000		What I want to know, then, is, is there any other
16		papers, as well, to your attorney?	16	4.	underlying raw data, besides the input which you
	Α.	Those are fairly lengthy. I may have to put it on a	17		said you will provide to me by tomorrow, that is not
18	S(E)	CD or something.	18		contained in Exhibit Number 9?
	Q.	Okay. As as long as we can try and accommodate		A	Well, except for the input information.
20		each other the problem here is this: I'm not			It has everything else?
21		taking your discovery deposition two months before			Yes.
22		trial. I'm taking it a week and a half before trial			Were there any other computer programs that you
23		and your trial deposition is noticed up one week	23		used?
24		5 K N W WW K N N N	24	Α.	Not not for this case, no.
25		has a chance to review these papers, also, and I	25	Q.	And just so I'm clear, and please forgive me if my

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31	questioning is dense, but when I'm talking about	1	Α.	Oh, yes.
2	data input, I'm specifically looking for the input			What did you do?
3	regarding height, weight, degree of seat stiffness,	9.0		That's involved in the approximately fourteen years
4	the headrest, the headrest height, etcetera.	4		of research, up to right now, in which we carried
	Well, everything is in there except for some	5		out three different experiments and one computer
6	changes, such as seat back stiffness, but that would	6		modeling study to come up with this this one
7	be in the input data set that we'll provide.	7		result.
8 Q.	그리 그리아 하다 그 아내는 그 아내는 그리아	8	Q.	Well, if you could be a little bit more specific,
9	On page two of your report, if you'd be so	9		you didn't do brain modeling, so what exactly did
10	kind to turn to it, around the middle of the page	10		you do here?
11	you use the word we, we have conducted a	11	Α.	Well, I don't need to do anything here. I'm using
12	biomechanical analysis. Who is we?	12		my results and applying to this case. Doesn't have
13 A		13		to be a specific input of any kind.
14 Q.	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	14	Q.	Okay. When you talk, as you did in your report, in
15	calculations for you?	15		that second sentence that begins, on the other hand
16 A.	Yes.	16		the response of the brain to an impact is a more
17 Q.	If I were to ask you specific questions regarding	17		reliable measure of injury, are you referring to
18	input data calculations, would you be able to answer	18		brain modeling there?
19	them, sitting here today?	19	A.	and the control of th
20 A.	I'll try my best.	20		response without using a model, but based on our
21 Q.	You'll let us know if you can't?	21		understanding of the biomechanics, we now conclude
22 A.	That's right.	22		that the response of the brain, how the brain is
23 Q.	Okay. Is there anyone else who has helped you, in	23		deformed, is more important than what you how you
24	any way, in compiling this report?	24		input the acceleration into the head as a measure of
25 A.	No.	25		injury.
	Page 10			Page 12
1 Q.		1	Q.	Okay. Apart from brain modeling, how would you
2	bottom of the page, under the heading, biomechanics	2		determine that?
3	of brain injury due to blunt impact. You have a	3	Α.	Well, we have also used high speed x-ray and
4	sentence that states as follows: Recent results	4		measured the motion of the brain inside the skull
5	from our laboratory show that the use of a single	5		during an impact, using a very high speed camera.
6	input parameter to explain the mechanism of injury	6	Q.	So one of the two; high speed x-ray or brain
7	or as a tolerance measure, such as angular	7		modeling?
8	acceleration of the head, is unreliable and possibly	8	Α.	Yes.
9	erroneous. Does that appear?	9	Q.	Okay. You say that those two methods, either brain
10 A.	Yes.	10		modeling or high speed x-ray, are a more reliable
11 Q.	And I read that accurately?	11		predictor, correct?
12 A.	Correct.	12	Α.	Well, that like I said, there were three
13 Q.	You also go on to state that in the next	13		experiments and one one computer modeling study
14	sentence, on the other hand, the response of the	14		that resulted in this statement.
15	brain to an impact is a more reliable measure of	15	Q.	I understand,
16	injury. Does that also appear in your report?	16	Α.	The two experiments, I already described to you.
17 A.	Yes.	17		The model and the one experiment, I already
18 Q.	And did I read that accurately?	18		described to you.
	Yes.	19	Q.	Did you do a specific brain model in this matter?
	Okay. Did you perform any brain modeling in this	20	A.	No.
21	case?	21	Q.	Okay. So my question to you is: You have said that
22 A.	Parameter and the second secon	22		brain modeling or high speed x-rays are more
23 Q.	Did you perform any type of study that would give	23		reliable, but in this case, you did not perform
24	you, quote, the response of the brain to an impact	24		either; is that accurate?
25	as a more reliable measure of injury?	25	Α.	Yes. I said that I didn't have to because I didn't

Page 13 Page 15 finish --1 1 BY MR. GURSTEN: 2 Q. That's not my question, sir. 2 O. Humor me. 3 A. I didn't finish answering my question -- the 3 A. Yes. 4 previous question about my studies because I have 4 Q. Okay. You did not do brain modeling in this case? 5 also used real human data from the National Football 6 League, where football players are concussed and 6 Q. What are you relying upon that you reached your --7 that is where the injury picture comes in. So based your conclusions in this case? You said you did 8 on the injury and - and the computer model and the three experimental studies? 9 brain motion, we can conclude what I just concluded 9 A. Three experimental studies and one computer model 10 in that statement. research program. 11 Q. Back to my question, though. I want to know, if you 11 Q. And are those three experimental studies and one did not do brain modeling or high speed x-ray in 12 12 computer model research program contained in Exhibit 13 this case -13 14 MR. SZTYKIEL: You mean of Joy Lloyd's 14 A. No. It has absolutely nothing to do with Exhibit 9, 15 brain? 15 except an estimate of the angular acceleration. 16 MR. GURSTEN: Yes. 16 Q. Okay. Where are those studies? 17 17 A. Well, one of the studies is the first reference in MR. SZTYKIEL: Oh. 18 THE WITNESS: Well, like I told you, it's 18 the report, another study is the -- the second to 19 not necessary because --19 last reference and the very last lower reference is 20 BY MR. GURSTEN: 20 a summary of the fourteen years of study that I just 21 Q. Doctor, we're going to be here a long time. 21 referred to. 22 A. I did not. 22 Q. Is there anything else? 23 Q. If you can answer one of my questions simply, that 23 A. Is there anything else for what? 24 might --24 Q. That would serve as a basis for how you reached your 25 A. I did not. 25 conclusions in this matter. Page 14 Page 16 1 Q. -- save us a lot of time. 1 A. Well, fourteen years of research, it can't all be 2 All right. So just so we're clear, put on paper. That's --3 because unfortunately, the transcript is now going 3 Q. You've indicated the first study, the fifth study 4 to be a little bit wordy, I'm going to try and make under references and then the sixth, which is a it a little bit simpler. You've stated in your 5 5 summary of your fourteen years of experience? 6 paper on page two, that brain modeling is a more 6 A. Yes. reliable indicator, but you did not perform it in 7 Q. Okay. Would you agree, as a general principal, that 8 this case; is that true? if I, as a plaintiff attorney, or if I, as the 9 A. Correct. 9 plaintiff in a -- in a case, just want to show that 10 Q. Okay. You say in that same heading, that, quote, 10 the forces are sufficient to cause brain injury, 11 single input parameters can be unreliable and 11 that all I need to do is show it using one possibly erroneous, true? 12 12 parameter? 13 A. Yes. 13 A. Using one parameter, no. As I said, it's not -- not 14 Q. Okay. You didn't do brain modeling, true? 14 reliable. If you -- if you pick the input 15 MR. SZTYKIEL: Well, he's saying he didn't 15 parameter, it's not reliable. If you put - pick 16 do a model of Joy Lloyd's brain. 16 another one, maybe. 17 MR. GURSTEN: Right. I understand. 17 Q. Okay. I want to make sure I understand your answer. MR. SZTYKIEL: That doesn't mean he 18 18 If I can show brain injury occurred using a single 19 doesn't have a brain model. 19 input parameter, do you believe that's sufficient 20 MR. GURSTEN: Lunderstand. 20 for me to show brain injury? 21 MR. SZTYKIEL: Okay. 21 A. No. 22 THE WITNESS: Well, this is a general 22 Q. Why? 23 statement. It has nothing to do with any one 23 A. Not input parameter. 24 particular person. This is a general statement that 24 Q. Why? 25 applies to any brain. 25 A. Because the brain really doesn't know what you're

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1	putting into the head. The brain only knows what	1	Q.	Would you agree with me that this can magnify the
2	it's injured when it it's deformed, so it's a	2		forces on the brain if more than one is occurring at
3	deformation of the brain that causes the injury.	3		one time?
4	Not the input.	111		Not necessarily.
5 (Q. So you don't believe I could ever show brain injury			Is it possible?
6	using input parameters?	6	A.	Well, anything is possible, but we don't have data
	A. That's my new theory, yes.	7		to demonstrate that.
	Q. And when did you arrive at this new theory?	8	Q.	Well, let me ask you this: If I tug your arm, are
	A. Not too long ago.	9	E	the forces I would generate on your arm and I
	Q. How long ago?	10		won't do this, by the way, but if I tug your arm,
	A. Sometime last year.	11		are the forces going to be less than if I tug your
	Q. How many weeks or months ago?	12		arm and twist it at the same time?
	A. No more than six.	1		Well, forces are different. It one is a movement
	Q. Six weeks, or six months?	14		and one is a force, so I don't know what what ar
	A, Months.	15		you talking about?
16 (Q. Has your new theory that you arrived at six months		- 50	Well, you have fourteen years of training and
17	ago been replicated, been peer reviewed, been	17		experience. Do you believe that that's a question
18	duplicated?	18		that's somehow unfair?
	 No. Nobody can duplicate our experiments. 	100,00	a conse	Yeah.
	Q. I see.			I'm asking you if forces
	A. We have a unique x-ray equipment that nobody in the	3.57		It's technically incorrect.
22	world has.	3500		All right. If there's more than one zone of motion
	 I see. Let's – if you would, just humor me a 	23		occurring on the body at one time, do you believe
24	little bit longer because I want to keep talking	24		overall the forces will be greater than, or less
25	about input parameters a little bit, okay?	25		than if there's only one degree of motion?
	Page 1			Page 20 Well, it depends on the motion. It could it
	A. Okay.	2		could be less, it could be more.
	If you, as a defense biomechanical expert retained in a case, want to exclude brain injury as a	100		Which is it more likely to be, Doctor?
3	possibility, would you agree with me that you have	1 (0.000)	11.75	I can't tell you that. So many different types of
5	to exclude it as a possibility using all directions	5		motions, you've got to give me a specific motion, I
	of movement, alone and combined?	6		can run the model, I can tell you that.
6 7 A	A. Sure.	1		You can't just answer that for me?
). In biomechanics, is this often referred to as the	1000000		No.
9	six degrees of freedom of movement? Or of motion,			Using common sense, you can't just tell me that?
10	pardon me.			No.
	Well, the head, as a rigid body, has six degrees of	10000		In the arm analogy I just gave you, you just can't
2	freedom.	12	Ų.	say you're right?
). Six degrees where it can move?		Λ	No.
	A. Yes.	13300	0.	
). Do you agree that more than one motion can occur at	15	V.	of today, biomechanics, as a science, is not capable
5 Q	one time?			of excluding the potential for brain injury because
B. S.	. I don't understand the question.	16		there is no reliable method that can include the
). Can you have more than one degree of motion; i.e.,	18		cumulative effects of different parameters of
9	게 되는 취과 가는 게 되는 게시하는 그것이 그래요.			movement?
	front, back, left, right and up, down, at one time? Sure.	19		Cumulative gets very confusing. If you would reword
). Okay. No question?	100	111	the question? I don't understand what cumulative
	. No.	21		
			0	I don't want to be unfair to you. As a doctor, how
). Is it possible that you can have all six occur	555	Q.	I don't want to be unfair to you. As a doctor, how
4	nearly at the same time?	24	70	would you define cumulative?

25 A. Repeated impacts.

25 A. Two different degrees, yes.

		Page 21	T		Page 23
	0	Okay. Let's use that definition in my question.	1		tested or duplicated now somehow changes that
2	20,000	Can you answer it now?	2		answer.
3			1 7		Well, it's so new, how could it be peer reviewed? I
4		lower tolerance to injury. Like NFL football	4		just came up with it.
5		players, they may get concussed a lot easier than	11.5		So in other words and I think we're going
6		somebody who's never been hit in the head before.	6		we're closing in now together. Can we say that,
7			7		yes, you're right, but there may be something new,
8	100	see if you can answer it now. Can we agree that as	8		we just have to experiment more to find out?
9		of today, biomechanics is not capable of excluding	137		Yes.
10		the potential for brain injury because there is no	150		Okay. Do you agree that bony structures within
11		reliable method that can include the cumulative	11	V.	different people's skulls are different, they're not
12		effects of different parameters of motion?	12		the same in every person?
13			1000		Correct.
14		these parameters, but our recent data show that			Do you agree that people's brains can differ?
15		there are certain parameters that are better			Yes, a little bit.
16		predictors of injury than others.	100		Do you agree that this is one reason why some people
17		Is that your recent data from six months ago?	17	V.	are more vulnerable to brain injury?
	120	Yes.		Λ	A brain is a brain. The vulnerability is probably
10.00		Okay. Can I go so far as to say that the answer to	19	24.	more upon the medical history of the person than
20		my question is, generally yes?	20		what the brain is like, unless the shape is
			21		radically different.
21		up with our results, but as of right now, my opinion	22	0	I'm sorry, can you repeat that answer?
23		is that we are homing in on predictors of injury,	23		The brain is a brain. It's not nothing that you
24		and therefore, we can exclude certain parameters.	24	23.	could make stronger or weaker.
		I understand you can exclude certain parameters, but		0	What about more vulnerable or susceptible?
2.5	Ų.		-	ν.	
100		Page 22	١.	322	Page 24
1		I'm asking you about all of the different cumulative	18	Α.	Susceptibility may be in the weakness in the blood
2		effects of different parameters of motion. Can you	2		vessels and so forth, but not in terms of the axons
3		answer my question now, sir?	3		and the and the cells in the brain. I think
	Α.	. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	4		their tolerance is pretty much the same from person
5		if I had multiple motions, is that what you mean?	5		to person.
6		If that's the case, then I don't think it matters.	1	Q.	So in other words, you don't believe that
7		It's not a question of how many directions of input	7		differences in different people's brains or the bony
8		you have to the head. Our studies show that the	8		ridges within the skull would affect an individual's
9		brain doesn't move any more if you rotate it from	9	œ	susceptibility or vulnerability to brain damage?
10		side to side as you rotate it from front to back,	1000	Α.	The bony ridges is a is a is a myth somebody
11	_	SO	11		came up with. They have no no data absolutely to
	Q.	Okay. I want to be as fair to you as I possibly	12		show that these are the causes of brain injury. Our data show that the bone that the brain does not
13		can, so let me repeat back to you what I think	14		slide very much with respect to the skull. Most of
14		you've just said and correct me if I'm mistaken,	15		the motion in a brain is in the center of the brain
15		please. Your answer to me would be, yes, I would	335 G		and this business of sliding contusion is somebody's
16		agree with you as of six months ago that as of	16		imagination.
17		today, biomechanics was not capable of excluding the	17	0.	
18		potential for brain injury because there was no reliable method that can include the cumulative	127	Q.	H NT 등이 HONE 등이 하다면 하고 있다면 맞는데 집에 가면 하면 되었다면 하다. 내가 되었다면 하는데
19			19		the exact geometry of the internal surfaces of her skull?
20		effects of different parameters of motion?	20		No.
25.515	A.	Yes.			
22	Q.	And you feel that this new I don't know what you call it. This new	23	Q.	Do you know if her brain is more vulnerable than the average person's brain to suffer brain injury?
23	A	Finding.		٨	No.
					Turning back to your report for a moment, you argue
45	Ų.	finding of yours that has not been peer reviewed,	43	V.	ruthing oack to your report for a moment, you argue

Page 25 Page 27 1 in your report against using Dr. Ziejewski's -1 A. -- because this is my own opinion, my true -- true opinion and -- and has nothing to do with why he 2 pardon me? 3 MR. SZTYKIEL: Dr. Z's. 3 hired me. 4 MR. GURSTEN: You know what, I'm going to 4 Q. I understand. 5 try and avoid having to say that throughout the 5 A. I said that a long time ago and I'm gonna say that deposition. Let me try that again. whether he hires me or not, or whether you hire me. 6 7 MR. SZTYKIEL: 1 say Dr. Z's. 7 Q. Noted. 8 A. This is totally unnecessary. 8 BY MR. GURSTEN: 9 Q. You argue against using Dr. Ziejewski's 1,800 rad/s 9 Q. Sir, I'm sorry. I was just having fun with -- with per second squared as a tolerance limit for brain the other attorney. 11 injury; is that accurate? 11 A. You're not having fun at my expense. 12 A. Yes. 12 Q. Certainly not, and I don't want you to think I was. 13 Q. And when I say rad, I'm talking about radians --Are you ready to continue, sir? 13 14 A. Yes. 15 Q. -- per second squared. 15 Q. Okay. Would you like to get a glass of water, or a Is it true, Dr. King, that Dr. Ommaya, as cup of coffee? Okay. Let's continue then, okay? 17 early as 1970, showed that humans can sustain brain 17 A. Okay. injury at 1,600 radians per second squared? 18 18 Q. Okay. Is it true that Dr. Ommaya found, as early as 19 A. It's in his paper, yes. 19 1970, not only that humans can sustain brain injury 20 Q. And NHTSA uses 1,700 radians per second squared? at 1,600 radians per second squared, but they can 20 21 A. They don't have a standard by that number. suffer very significant brain injury? 21 22 Q. You don't believe that NHTSA uses the 1,700 radians 22 MR. SZTYKIEL: 1 guess 1'm going to object 23 per second squared? 23 to the use of the word found, in that that implies 24 A. They may have used it, but I think they're equally 24 that he tested humans, and I don't know that he did. 25 wrong. 25 I mean, he may have concluded that, but I don't know Page 26 Page 28 1 Q. Okay. Does NHTSA have a standard? 1 that he did any testing on humans. 2 A. For angular acceleration of the head, no. 2 MR. GURSTEN: Well, this is a discovery 3 Q. Does NHTSA have any standard, that you're aware of, 3 dep. that uses 1,700 radians per second squared? 4 MR SZTYKIEL: Okay, I know, 5 A. No. 5 MR. GURSTEN: Noted. 6 Q. You're not aware of any? 6 BY MR. GURSTEN: 7 A. No. 7 O. Go ahead, Doctor. 8 A. He did not find anything. He used monkey data and 8 O. What is NHTSA? 9 A. The National Highway Traffic Safety Administration. scaled it up to the human, using unreliable scaling 9 10 Q. Let's go back to Dr. Ommaya for a moment. Dr. 10 methods and using unreliable methods to measure 11 Ommaya is someone that you cite in your -- in your 11 angular acceleration. This paper is very old, it's 12 references as a source, correct? 12 no longer valid and it should not be relied upon by 13 A. Well, I cited the paper, just because that's where anyone because this thing is thirty some years out 13 14 the number came from. 14 of date. 15 Q. Is that a paper that you have relied upon, in any 15 Q. Well, I understand that's your opinion, but can we 16 way, in your report? agree that people, including SAE and including 16 17 A. No. I have tried to say that that number is 17 NHTSA, have been relying on this paper for the past 18 incorrect, outdated and totally useless. 18 thirty years? 19 Q. Okay. Now I'm starting to understand why Mr. 19 A. Because they don't have any other data to rely on 20 Sztykiel hired you, sir. and we are producing the new data now, to tell you 20 21 A. I beg your pardon. This is an implication I do not that this is wrong. 21 22 like. 22 Q. But the answer to my question is yes? 23 Q. I'm -- sir, please --23 A. The question is that he did not find it, so it's no. 24 A. I do not like this --24 Q. Let me ask my question again, because I don't want 25 Q. It's okay. 25 to argue with you. I asked a very simple question

ы	N.	ID VS. FIRST CHOICE TRUCKING AND R	-	AI	
		Page 29			Page 31
1		and I think it can be answered more simply. Is it	1		the heading biomechanics of brain injury due to
2		not true that that number has been relied on by	2		blunt injury. Second sentence begins, recent
3		NHTSA and the SAE for over thirty years?	3		results from our laboratory show that the use of a
4	Α.	Not relied on. Has been quoted. There are other	4		single input parameter to explain the mechanism of
5		numbers that have been quoted, so it's just one of	5		injury or as a tolerance measure such as angular
6		the numbers that have been quoted.	6		acceleration of the head is unreliable and possibly
7	Q.	Okay. Can we agree that the numbers that Dr. Ommaya	7		erroneous?
8		found as early as 1970 have been used by both NHTSA			Well, I told you that.
9		and by the SAE for the past thirty years, true?			These are your numbers?
		I wouldn't even say it has been used.			So summarized in this last paper.
11	Q.	True	11	Q.	This is - these are the numbers that you came up
1		It has been quoted.	12		with six months ago?
13	Q.	- or false?			Yeah. The findings I came up with.
		False. It has only been quoted.	14	Q.	Okay. Are these the findings that are incorporated
1000	11.000	And how has it been quoted?	15		in the fifth paper under references, by Zang, et al,
		Dr. Ommaya said so. That's it.	16		that recent advances in brain injury research, a new
17	Q.	And why is it being quoted in the SAE papers and by	17		human head model development and validation?
18		NHTSA?	18	Α.	No, it's in the last paper. It's summarized in the
19	A.	Because that's the only data that they had, at that	19		last paper.
20		time.		Q.	March 1985 for the contract of
21	Q.	Okay. Now, you have a new set of numbers that you	2.1		that this new model is not discussed in the prior
22		came up with six months ago, correct?	22		paper I just mentioned to you?
23	Α.	No. There are many other papers that I've I have	1	Α.	The model is - is part of my results and the model
24		cited that have other numbers that people also	24		is discussed in the fifth reference, but
25		quote.	25	Q.	So the answer
		Page 30			Page 32
1	Q.	And you have numbers yourself?	1	Λ.	These results is an accumulation of results over
2	Λ.	And I have numbers myself.	2		four studies that I think I summarized in the last
3	Q.	That you came up with six months ago?	3		paper.
4	Α.	Which says that angular acceleration is not a	4	Q.	All right. So when you're talking about recent
5		reliable measure.	5		results from our laboratory, you just indicated that
6	Q.	But the federal government, NHTSA, have not chosen	6		it's also discussed in the fifth paper that I just
7		to adopt your numbers yet, either, have they? Have	7		asked you about, true?
8		they?	8	Α.	That's part of the recent results.
9	A.	I and the federal government do not get along	9	Q.	Okay. Obviously, you are one of the authors of that
10		because they don't want to listen to new	10		paper?
11		information. That's all.	11	A.	Yes.
12	Q.	Okay. Doctor, because it's almost 11:00 I I	12	Q.	Your name appears last?
13		don't mind staying here all afternoon, but I don't	13	A.	Yes.
14		want to have to go round and round with you, so my	14	Q.	I assume, you're somewhat familiar with it then?
15		question is very simple, the federal government and	15	Α.	Yes.
16		NHTSA have chosen not to adopt your numbers yet,	16	Q.	Did that paper end with the following - did it end
17		also, correct?	17		with the following conclusions: More more
18	Α.	They don't even know about my numbers.	18		experimental work is needed to see if this model is
19	Q.	They don't even know about it?	19		accurate?
20	۸.	No.	20	Α.	Of course.
21	Q.	Okay. Continuing on page two, you indicate that,	21	Q.	Did it also end with the following quote:
22		recent results from our laboratory. What recent	22		Well-documented real world head injury cases must be
23		results from your laboratory are you referring to?	23		simulated and validated before this new tool can be
24	A.	Where are you?	24		used to predict head injury?
20	0.	At the bottom of the page, second sentence, under	25	A.	Yes.

LLO	TO 13. PIRST CHOICE TRECKING AND I	_		
77.2	Page 33	100		Page 3
125	This is the problem I'm having, Doctor, so	1		Let's turn to page two again. On page
2	hopefully, you can help explain it to me: You say	2		two, under the second heading, biomechanical
3	on page two of your report that the response of the	3		analysis by Dr. M. Ziejewski, you wrote, the
4	brain to an impact is a more reliable measure, but	4		parameters that he used to simulate the seat back
5	in this case, you never did it, true?	5		were far too rigid. Where did you get that
	Correct.	6		information about the rigidity of the back support?
7 Q.	And that same model that you wrote about, you're	10	100	That's in his data set.
8	saying it must be validated before it can be used to	- 8	Q.	So you're talking about his numbers and you felt
9	predict head injury, true?	9		that they were far too rigid?
0 A.	No, no, that's not what I said. I said we need more			Yes.
1	validation. This model has been rigorously	1000		Where are your numbers going to be contained?
2	validated. This is the only model in the world that			In the input data set I will supply you.
3	has been rigorously validated against all available			That you will supply me by CD tomorrow?
4	data.	14	Α.	Yes.
5 Q.	Well-documented real world head injury cases must be	15	Q.	Or disk?
5	simulated and validated before this new tool can be			Yes.
7	used to predict head injury. Am I reading that	17	Q.	Okay. You go on to say that, furthermore, the only
8	correctly?	18		restraints on the neck joints were minor viscous
9 A.	That's in the last paper.	19		force. Where did you get that information?
0 Q.	I understand that.	20	Λ.	Also from his input data set.
1 A.	Okay. That's in the	21	Q.	And where is your input information?
2 Q.	The paper from 2001?	22	Α.	It's also in the input data set I'll give you.
3 A.	That's in the last reference number six, real world	23	Q.	Okay. Go to the last sentence of that paragraph.
4	data.	24		You write, at seven miles per hour and with the
5 Q.	Oh, I see.	25		duration of sixty milliseconds the angular
	Page 34			Page 3
LA.	That's where	1		acceleration was 1,180 radians per second squared,
2 Q.	So now you're saying, you have the sufficient amount	2		correct?
3	of real world data	3	Α.	Yes.
1 A.	Fifty-three cases.	4	Q.	I read that correctly?
5 Q.	and you can use this?	5	Λ.	Yes.
5 A.	Yes.	6	Q.	Okay. How many calculations did you perform in this
7 Q.	Fifty-three cases?	7		case?
A.	Yes.	8	Α.	Just this one here in Exhibit 9.
Q.	Is that it?	9	Q.	Okay. If we change the number that appears here,
) A.	Is that it?	10		seven miles per hour, and we made it eight, how
Q.	Is that it?	11		would that change the angular acceleration?
2 A.	Does anybody in the world have fifty-three cases of	12	Α.	It would probably go up a little bit.
3	human concussion data?	13	Q.	You didn't test it?
Q.	Let me ask	14	Α.	No.
	140 07 110 120 E S	15	Q.	What about if we made it nine miles per hour?
A.	You don't know biomechanics.	1.0		7/1
	You don't know biomechanics. I don't want to be disrespectful to you, Doctor, and		Α.	It would go up some more.
Q.		16		It would go up some more. But you didn't test it?
Q.	I don't want to be disrespectful to you, Doctor, and	16 17	Q.	[2] [1] [1] [2] [2] [2] [2] [2] [2] [3] [3] [3] [3] [3] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4
5 Q. 7	I don't want to be disrespectful to you, Doctor, and I don't want to argue with you, so let's move on.	16 17 18	Q.	But you didn't test it?
5 Q. 7 3	I don't want to be disrespectful to you, Doctor, and I don't want to argue with you, so let's move on. Do you have anything else in that paper,	16 17 18	Q. A.	But you didn't test it? No.
i Q.	I don't want to be disrespectful to you, Doctor, and I don't want to argue with you, so let's move on. Do you have anything else in that paper, besides the fifty-three cases of NFL football	16 17 18 19 20	Q. A. Q.	But you didn't test it? No. What if we lowered the milliseconds from sixty to
i Q.	I don't want to be disrespectful to you, Doctor, and I don't want to argue with you, so let's move on. Do you have anything else in that paper, besides the fifty-three cases of NFL football players, that you've relied upon to back up your data?	16 17 18 19 20 21	Q. A. Q.	But you didn't test it? No. What if we lowered the milliseconds from sixty to forty?
5 Q.	I don't want to be disrespectful to you, Doctor, and I don't want to argue with you, so let's move on. Do you have anything else in that paper, besides the fifty-three cases of NFL football players, that you've relied upon to back up your data?	16 17 18 19 20 21	Q. A. Q.	But you didn't test it? No. What if we lowered the milliseconds from sixty to forty? It would go up a little more.
5 A. 6 Q. 7 8 9 0 1 1 2 A. 3	I don't want to be disrespectful to you, Doctor, and I don't want to argue with you, so let's move on. Do you have anything else in that paper, besides the fifty-three cases of NFL football players, that you've relied upon to back up your data? No. That's that's a unique set of data nobody else in the world has.	16 17 18 19 20 21 22	Q. A. Q.	But you didn't test it? No. What if we lowered the milliseconds from sixty to forty? It would go up a little more. Dr. King, if you wanted to testify to a jury to

1.71		1D vs. Fiksi choice ikecking and k			ik, iiici
		Page 37			Page 39
1		try and make it as bad as possible, so you could	1	A.	Yes. And even if they did their numbers ten times
2		exclude it as a possibility?	2		higher than what Dr. Z. proposed, so why that's
3	Α.	No, because angular acceleration is not a measure of	3		why it's ridiculous to use angular acceleration as a
4		injury to the brain.	4		measure. The numbers run from 1,600 hundred to
-5	Q.	Here we go back again to that, but	5		16,000
6	Α.	I'm just			Doctor, I really don't want to
7	Q.	nevertheless, if you wanted to show that Dr.	1 6		so which number is it?
8		Ziejewski	8	Q.	I really don't want to argue with you and I'm not
9	Α.	I'm not finished.	9		trying to argue with you.
10	Q.	Please, continue.	10	Α.	No, I'm not arguing. I'm just giving you the facts.
11	۸.	I'm just doing this simulation to show that tweaking	11		You're
12		the numbers just to get something like 1,850 radians	12	Q.	So I'm
13		per second is absolutely ridiculous.	13	Λ.	homing in on one paper. I'm telling you, there
14	Q.	I understand that's your proposition that you're	14		are other numbers out there that you don't home in
15		offering.	15		on and it is totally unfair
16	Α.	So it's not worth my time to try to prove anything	16	Q.	So I'm going to ask you
17		using angular acceleration as a measure of injury,	17	Α.	to say that.
18		since it is not,	18	Q.	since you are an expert witness, if you believe
19	Q.	Okay. I understand it is your opinion that you have	19		your role in this matter should be independent and
20		offered us that it is, quote, ridiculous to use	20		not biased or partisan to either side?
21		angular acceleration as a predictor for brain	21	Α.	These are the facts. I'm not saying anything else.
22		injury?	22	Q.	Do you agree that your role in this matter should be
23	A.	Correct.	23		as an independent expert witness, you should not be
24	Q.	Okay. Nevertheless, there is at least some body of	24		biased or partisan to either side?
25		literature that would say it is not, quote,	25	Α.	That's true.
		Page 38			Page 40
1		ridiculous, is there not?	1	0	Okay. Let's go back to my question, please, and I'd
	Α	Science is a continuously improving thing. You	2	4.	like you to answer my question. Can we agree that
3		just - if you just continuously rely upon old data,	3		there is a significant body of literature out there
4		then we'll never get out of this.	4		that uses angular acceleration as a predictor of
	0.	23	5		head injury, true or false?
6	×.	untested, unreliable new data either?		Λ	Well, yes. Not not as a predictor, but as a
	A	This is proven and tested. We just have not had it	7		possible cause of brain injury.
8	es.	published and peer reviewed yet.	10000	O.	1982 C. S. C. B. C. S. C. S. C. S.
	0.	But we shouldn't have to rely on new, unproven,	9	12.	in that as an indicator, nevertheless, I am asking
	V.	quote, junk science, in any case?	10		you, did you ever plug in these different numbers
10	A	This is not junk science. I beg your pardon.	11		either increasing the miles per hour or lowering
			12		their milliseconds to show that Dr. Ziejewski, or
	Q.				others who might believe that, are wrong and that
13		proposition of fact. Would you agree? No.	13		
					head injury could not have occurred in this case;
		Science should not rely upon unproven junk science?	15		did you ever do that?
	Α.	This is not junk science and we have — we have data			Well, you don't have to do that because
17		to show that and I'm pretty sure it will be			Doctor, please answer my question.
18		published in due time.		A.	No. I did not.
		Okay. But it hasn't yet?	19		MR. GURSTEN: Let's go off the record for
		No.	20		a second.
		And all we have right now are your opinions?	21		VIDEO TECHNICIAN: Going off the record at
		Yes.	22		11:03 a.m.
	Q.	Okay. And I'm asking you, is there not at least	23		(Off the record at 11:03 a.m.)
24		some significant body of literature that does use	24		(Back on the record at 11:04 a.m.)
25		angular acceleration as a predictor for head injury?	25		VIDEO TECHNICIAN: Back on the record at

	Page 41			Page 4
1 1	1:04 a.m.	1		injured?
2	MR. GURSTEN: Okay. Doctor, we're going			No permanent injury.
3 to	o continue now.	3	Q.	I'm not sure you understand my question.
4 BY N	AR. GURSTEN:	4		MR. SZTYKIEL: 1 know I don't.
	Are you saying, or is it your opinion in this matter	5	BY	MR. GURSTEN:
	hat Joy Lloyd was not injured, in any way, after	.6	Q.	You don't have a crystal ball, correct? You can't
7 b	being rear-ended by the defendant's semi truck?	7		predict things, or read things if you don't have the
8 A. C	Correct.	8		documents. If you don't have the medical records,
9 Q. T	That is your opinion?	9		how can you say that you have found things in the
10 A. Y		10		medical records to say that Joy Lloyd was not
11	MR. SZTYKIEL: We're talking about brain	11		injured?
12 ii	njury, right?	12	Α.	From the medical records that I have, there is no
13	MR. GURSTEN: No.	13		sign of any permanent injury.
14 BY N	MR. GURSTEN:	14	Q.	What medical records are those?
15 O. I	asked if you were saying that Joy Lloyd was not	15	Α.	The emergency records and the few other records
ACTUAL CONTRACTOR OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO THE PER	njured, in any way, after being rear-ended by	16		shortly thereafter.
	lefendant's semi truck?	17	Q.	How shortly thereafter?
18 A. C				In December of '99.
	ust so we're clear, that is your opinion to this	19	O.	So we're talking within one month of the motor
	ury?	20		vehicle accident?
21 A. Y			Λ.	Correct.
22	MR. SZTYKIEL: And understand what he's	15.00		Okay. We agree that you do not have the complete
	sking you, Doctor, is, he's asking you to exclude	23	×.	medical records, which are quite voluminous, of the
	orthopedic injuries. He's going above and beyond	24		twelve doctors who are rendering care to Joy Lloyd;
	he brain. I mean	25		is that true?
	ACTION FORENCE INCOMESCENTE	-		Page 4
1	Page 42 THE WITNESS: That's right. That's okay.	1	A	That's true.
2	MR. SZTYKIEL: Okay.			Is it fair to say that you have found nothing in
	R. GURSTEN:	3	*	your records, because you do not have them, that
	ou do not have the complete medical records of the	4		would lead you to opine that Joy Lloyd was not
	welve treating doctors who have been rendering care	5		injured by reviewing the medical records
	or Joy Lloyd; is that true?		Α	Well, I didn't
	hat's true.	100		is that true?
	ou only have the emergency room record; is that	0.00	110	I didn't say that I would find nothing in there. I
55	rue?	9	ex.	just said that based on the input acceleration
	and a few subsequent records about neck pain.	10		input of the into the body at the in that
	Okay. Since you don't have all of the medical	11		accident, I do not believe that there can be any
	ecords, is it fair to say that you found nothing in	12		permanent injury.
	our review of the medical records themselves, that		Ö.	. Her grown on the second of the company of the second of
1918 - 1989	ould indicate that Joy Lloyd was not injured in	14	V.	nauseam.
	nis case?	15		MR. SZTYKIEL: You know, I'll stipulate
	Vell, this is a minor rear-end impact and there does	16		that he found nothing in records he didn't see.
16 A V	ren, and is a minor rear-end impact and mere does	0.000		MR. GURSTEN: That's fine, but I want
	of seem to be any sign of any permanent injury in			THE STORAGE LINE A THIC, DUC I WHILL
17 n	ot seem to be any sign of any permanent injury in	17		
17 no 18 he	er, and so subsequent medical records probably show	18		to -
17 no 18 ho 19 al	er, and so subsequent medical records probably show Il kinds of complaints, but I don't think they're	18 19		to MR. SZTYKIEL: Okay.
17 no 18 ho 19 al	er, and so subsequent medical records probably show Il kinds of complaints, but I don't think they're clated to that impact.	18 19 20		to MR. SZTYKIEL: Okay. MR. GURSTEN: - establish his bias, and
17 no 18 ho 19 al 20 rc 21 Q. O	er, and so subsequent medical records probably show Il kinds of complaints, but I don't think they're elated to that impact. Okay. Doctor, we're going to go round and round.	18 19 20 21		to MR. SZTYKIEL: Okay. MR. GURSTEN: - establish his bias, and if he's going to go round and round with me, I want
17 no 18 ho 19 al 20 ro 21 Q. O	er, and so subsequent medical records probably show ll kinds of complaints, but I don't think they're clated to that impact. lkay. Doctor, we're going to go round and round. If y question to you was: Since you don't have all of	18 19 20 21 22	Bar	to MR. SZTYKHEL: Okay. MR. GURSTEN: establish his bias, and if he's going to go round and round with me, I want it on the record.
17 no 18 ho 19 al 20 rc 21 Q. O 22 M	er, and so subsequent medical records probably show all kinds of complaints, but I don't think they're elated to that impact. Okay. Doctor, we're going to go round and round. It question to you was: Since you don't have all of the medical records in this case, is it fair to say	18 19 20 21 22 23		to MR. SZTYKIEL: Okay. MR. GURSTEN: establish his bias, and if he's going to go round and round with me, I want it on the record. MR. GURSTEN:
17 no 18 he 19 al 20 re 21 Q. O 22 M 23 th	er, and so subsequent medical records probably show all kinds of complaints, but I don't think they're elated to that impact. Okay. Doctor, we're going to go round and round. It question to you was: Since you don't have all of the medical records in this case, is it fair to say	18 19 20 21 22 23		to MR. SZTYKHEL: Okay. MR. GURSTEN: establish his bias, and if he's going to go round and round with me, I want it on the record.

100			-	1///	
		Page 45			Page 4
1		if you just say, isn't it true that you found	1		do you believe that you are qualified to render
2		nothing in something you didn't look at.	2		expert opinions as an accident reconstructionist in
3		MR. GURSTEN: Well, that's that's why	3		court?
4		it's so preposterous and that's why I keep asking	4	Α	. Yes.
5		it.	- 5	Q	이 마음이 되었는 아이들이 맛이 되었다면서 가장이 모든 그는 그것은 그를 다 먹었다.
6		MR. SZTYKIEL: No, no, I it's so long	6		performed a medical examination on Joy Lloyd and
7		that I think but okay.	7		that she was not injured in this crash?
8		MR. GURSTEN: Noted, Witold.	1000		. No.
9		MR. SZTYKIEL: I mean, I it took me	9	Q	. Is it fair to say, Doctor, that since you don't even
10		three times to get it.	10		have her treatment records, you don't even know what
11		MR. GURSTEN: Well, let me let me try	11		all of her injuries actually are?
12		and clear it up.	12	٨	. I I don't know what her complaints are, but since
		MR. GURSTEN:	13		I'm trained in understanding of causation of injury,
14	Q.	Your opinion that Joy Lloyd was not injured in this	14		I can say that this accident did not cause any
15		case is not based upon your review of all of her	1.5		permanent injury.
16		medical records?	16	Q	. I understand that's your opinion. Nevertheless, can
17	٨.	Correct.	17		we say that since you don't have those medical
18	Q.	Okay. You are not a medical doctor?	18		records, you at least don't know what those medical
19	Λ.	No.	19		records by the treating medical doctors for
20	Q.	You are not a trauma epidemiologist?	20		rendering care for her say are her injuries?
21	۸.	No.	21	Α	. That's true.
2	Q.	Do you hold yourself out as qualified to render	22	Q	Okay. I would like you to please assume that Joy
3		opinions as an expert accident reconstructionist?	23		Lloyd suffered the following injuries: Traumatic
4	Α.	I do some accident reconstruction, but I'm not an	24		brain injury, clinical depression, rotator cuff tear
25		exclusive expert in accident reconstruction.	25		requiring surgery, blackouts, concussion of the
		Page 46			Page 48
1	Q.	Well, exclusive might mean one thing to someone and	1		temporal bones via audiogram, frontal and parietal
2		one thing to something else. Let me ask that again.	2		lobe injuries by PET scan, seven or eight different
3		Do you hold yourself out before Judge Borman to	3		ophthalmologic surgeries, hearing loss, dizziness.
4		testify in court, to render expert opinions as an	4		I also would like you to assume, for purposes of my
5		expert accident reconstructionist?	5		question, that she was awarded Social Security
6	Λ.	To a certain extent, yes.	6		Disability to the date that she was rear-ended by
		Okay. Do you investigate crashes routinely?	7		this truck and she continues to receive twelve hours
		Not routinely, no.	8		of attendant care every day. Further, that she is
		Do you do crush measurements?	9		taking seven different prescription medications
		Not routinely, no.	10		every day, over nineteen pills a day supervised by
		Do you measure skid marks?	11		her treating psychiatrist. Now, are you aware of
		Not routinely, no.	12		Joy Lloyd receiving medical treatment before she was
		Do you do you perform investigations at the sites	13		rear-ended by this truck, for any of those injuries
4		of crashes?	14		that I have described to you?
		I used to.	15		MR. SZTYKIEL: Because you haven't
		How long ago?	16		indicated it's a discovery only dep, I feel the need
		A long time ago.	17		to object. I mean, if you're telling me you're
		How long ago?	18		not going to play this at trial, then I'll I'll
		While I was a graduate student.	19		not say anything, but until that time happens, I'm
		100	20		going to object to the mentioning of Social Security
					기통 (1987년 1987년) : 기계 (1987년) 전 (1987년) 작업 (1987년) 1987년 (1987년) 1987년 (1987년) 1987년 (1987년) 1987년 (19
		[1] [2] [2] [3] [3] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4	21		Disability benefits.
			22	72.7	MR. GURSTEN: Okay. Noted.
					MR. GURSTEN:
					Go ahead, Doctor.
5		different indicators I've just gone over with you,	25	Α.	Well, I'm aware of some of the problems she

-			_	-	
		Page 49			Page 51
1		complained of in her deposition, but to me, this	-1		think a rear-end impact would cause any clinical
2		these are all not related to to that accident.	2		depression.
3	Q.	Doctor, do you remember my question?			Does clinical depression cause rotator cuff tears?
4		MR. SZTYKIEL: 1 think he's just asking	4	A.	Rotator cuff tears do not occur in rear-end impact,
5		you if you have any preaccident medical history.	5		so that's another
6		THE WITNESS: If she had any			Do does clinical depression
7		MR. GURSTEN: Let's try this again,			I have I have studied that
8		because I probably will be playing this for a jury.	8	Q.	cause rotator cuff tears, Doctor?
9		And I want to state, for the record, that your	9	Α.	I am not finished.
10	(objection will be noted so you don't need to object.	10	Q.	I want you to answer my question, please. Does
11		I'm going to ask this question again and I'd like	11		clinical depression
12		you to answer my question.	12		MR. SZTYKIEL: He's allowed to finish his
13	BY	MR. GURSTEN:	13		answer.
14	Q.	Dr. King, I would like you to please assume the	14		MR. GURSTEN: All right.
15		following, that Joy Lloyd suffered the following	15		THE WITNESS: Rotator
16		injuries as a result of being rear-ended by this	16		MR. GURSTEN: Go ahead.
17		truck: Traumatic brain injury, clinical depression,	17		THE WITNESS: cuff tears are not caused
18		a rotator cuff tear requiring surgery, blackouts,	18		by rear-end collisions.
19		concussion of the temporal bones by audiogram,	19	BY	MR. GURSTEN:
20		frontal and parietal lobe injuries by PET scan,	20	Q.	If the treating orthopedic surgeon in this case
21		seven or eight different ophthalmologic surgeries,	21	7	testifies, subject to foundation, that he has
22		hearing loss and dizziness. I also want you to	22		rendered treatment to hundreds of people who have
23		assume that she continues to receive twelve hours of	23		suffered rotator cuff injuries as a result of being
24		attending care prescribed by her physician every day	24		rear-ended in car crashes
25		and that she takes seven different medications,	100	Α	I'd suggest he come and take a biomechanics course
-	_			200	Page 52
ı		Page 50 nineteen pills every day, supervised by her treating	î		from me because there's no biomechanical basis for
		psychiatrist. Now, my question to you, are you	2		that.
3		aware of Joy Lloyd receiving medical treatment	1	Q.	100000
4		before she was rear-ended by the defendant's semi	2.0		That's always my opinion, because I teach that.
5		truck for any of those injuries?	1		I see. Just so we're clear, are you saying it is
		I do not have any records of that.	6	V.	impossible to suffer a shoulder injury as a result
7		Are you aware of her taking any type of prescription	7		of being rear-ended?
173		medication before she was rear-ended by defendant's	50.20	4	Virtually impossible.
8		semi truck?			
9		No.	100	Q.	Lloyd was injured as a result of being rear-ended by
18.3			10		the defendant's semi truck?
130	Q.	Are you aware of her receiving any type of medical treatment, for any of those injuries that I have	11		Virtually impossible.
12					200 (0)
13		just described to you, before she was rear-ended by	3.50	Q.	그러워 아이들 어려워 나는 사람이 되고 있어야 되었다. 나는 사람들은 사람들이 되었다면 하는 것이 없는 것이 없었다. 그리고 있다면 그렇게 되었다면 그렇다는 것이다.
14	7/2	defendant's semi truck?	14		report saying it is impossible or just extremely
		No.	15		unlikely that Joy Lloyd was injured as a result of
7.7	Q.	Are you aware of her receiving attendant care for	16	204.00	being struck by the defendant's semi truck?
17		assistance before she was rear-ended by defendant's	0.00	Α,	[2019] [2017] [2017] [2017] [2017] [2017] [2017] [2017] [2017] [2017] [2017] [2017] [2017] [2017] [2017] [2017] [2017] [2017] [2017]
18		semi truck?	18		use the word impossible.
		No.		Q.	
	Q.	Do you have any opinions, assuming you don't believe	20		saying that it is possible not to be injured at
21		the defendant's semi truck caused these injuries,	21	· .	higher levels of angular acceleration?
22		for what caused them?		Α.	The state of the s
	Α.	What caused all of her problems? Well, if you if	23		say that these angular accelerations are well within
24		you throw in clinical depression, that could be a	24		the limits of what the the NFL players are
25		major cause of a lot of those problems and I don't	25		sustaining and so

Page 55 Page 53 1 A. That's not what I said. I said about the brain, 1 Q. We're back to the NFL players? it's the same. 2 A. Where brain injury is not a permanent injury. 3 O. You're saying for the brain? 3 Q. Is your report saying that it is not possible to be 4 A. Yes. injured at these angular acceleration forces? 5 Q. I'm going to ask you about a number of different factors and I want to - you to tell me whether 6 Q. Okay. Can we agree that it is impossible for you to these factors can affect injury threshold in a tell me how much force it would take to injure my 7 rear-end automobile crash. client, Joy Lloyd, because you have never tested her 8 8 Height of the occupant? 9 to find out? 10 A. Possibly, depending on his headrest. 10 A. I don't want to answer questions that are double 11 O. Body weight? negatives. Can you do that again? 11 12 A. What injury are you talking about? 12 O. Can you tell me how much force it would take to 13 Q. Injury thresholds in a rear-end crash. injure Joy Lloyd without testing her? 13 14 A. For what? 14 A. Well, I - I find it impossible to answer that 15 Q. Doctor, it's a real simple question. question. I cannot test a living human being. I 15 MR. SZTYKIEL: No. He means for what 16 don't know how to answer that. 16 injury; head injury --17 17 Q. But you can test --MR. GURSTEN: I know. 18 A. You want me to put her on the sled and test her? 18 MR. SZTYKIEL: - neck injury? 19 19 Q. Doctor, I don't want to argue with you. I'm asking THE WITNESS: For body? Which part of the 20 20 vou --21 21 A. I don't understand the question. What do you mean body. 22 BY MR. GURSTEN: 22 by testing her? 23 O. If you would like, I will go through all eight 23 Q. Can you tell me the exact force it would take to different injuries that Joy Lloyd has claimed, but 24 24 injure her without testing her first? I'm asking you right now as a general proposition 25 25 A. I cannot test her and I cannot tell you that. Page 56 Page 54 regarding each of these indicators. 1 Q. The answer is, you cannot tell me that? 2 A. You're talking about Joy Lloyd specifically? 2 A. No. 3 O. I'm talking - I'm asking you about general 3 Q. Can we agree that different people have different propositions, if these are different indicators of injury thresholds? vulnerability for someone who may have different 5 5 A. Yes. vulnerability for injury thresholds as a result of 6 Q. Can we agree that a twenty-five-year-old, 250 pound, 6 being rear-ended in an auto crash? 6'3" inch football player is less likely to be 7 8 A. Are you talking about the very minor kind of a crash injured in the same car crash as a forty something 8 year-old woman, who is 5'4" and let's say weighs 140 9 we talk -- we have here? 9 10 O. Are there any other qualifications you want to make some pounds? 10 before I ask you these questions? 11 11 A. That depends on the injury. If it's a brain, it's 12 A. Well, I don't know. You -- you ask the questions. probably the same. 13 I just want to tighten the limitations so that we 13 O. What about the rest of the body? don't go all over the map. 14 A. If it's a rib cage, no, she's weaker. 14 15 Q. What about your neck? 15 O. Okay. Why don't you humor me again first and let me just ask you, the following questions are accepted 16 16 A. Yeah, she's weaker in the neck, as well. 17 generally as indicators of increased vulnerability 17 Q. Back? to injury thresholds, in general, in rear-end auto 18 A. Yeah, she's weaker in the back. 18 19 Q. Shoulder? cases. Ready? 20 A. What's the question? 20 A. Yes. 21 Q. Is gender one of the factors that can affect -- that 21 Q. You're saying that it would take exactly the same can affect injury threshold? 22 force to injure a 250 pound NFL linebacker who runs 22 23 A. In general, yes, but in this minor accident, no. a four, five, forty as it would to injure a forty 23 something year-old woman who weighs 140 some pounds 24 Q. What about height? 24 25 A. Same thing, and is 5'4" inches?

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	aure e	Page 57		-	Page 59
		What about the occupant's fitness level?		10000	Vehicle plasticity and elasticity?
		Same thing.			That's a minor factor.
		What about gender and age?	1000		Road friction?
	Α.	In general, yes, but in this case, because it's so			That's a minor factor.
5		minor, no.	100	11/1/4/	Brake application?
		What about osteoporosis and arthritis?			That's not too important.
		Arthritis can cause pain but not permanent injury.			Vehicle heights and impact angles?
1000	Q.	Is arthritis one of the factors that can affect	1500		The higher the bumper of the impacting vehicle, if
9		injury threshold?	9		it doesn't intersect with the bumper of the impacted
100	Α.	No, it's just causing pain. Pain is not necessarily	10		vehicle, then the impact severity impact severity
11	227	equal to injury.	11		is lower.
		What about osteoporosis, Doctor?	100	1000	Torque?
		It can cause fracture, but not in this case.			I don't understand what torque means. What torque?
100000		What about head position?	14		Torque applied to what?
790-1	Α.	It can make increase the motion a little bit, but	100		You can't opine whether torque - the degree of
16		again, in this case, it's insignificant.	16		torque at impact can affect injury threshold in a
	-	What about body position?	17		rear-end crash?
1000		Same thing.	of et		You mean, twisting of the vehicle? A lot of these
		Prior injuries?	19		things in these minor cases are what I call
	Α.	That depends on what prior injuries. I can't tell	20		symptom-producing factors, which can induce
21		you.	21		temporary pain, but not permanent injury because of
22 1	Q.	· · 하나에게 바이어	22		preexisting arthritic conditions.
23		assume the person, the occupant of the vehicle had			What about torque?
24		had a triple laminectomy of her neck, would that			It can maybe induce more pain temporarily, but not a
25		increase her vulnerability?	25		permanent injury.
		Page 58			Page 60
1.	Α.	Triple laminectomy if it wasn't fused, yes. If	1	Q.	What about sheering?
2		it was fused, probably not.	2	Λ.	Same thing.
3 (Q.	What about seat position?	3	Q.	Tension?
4 /	۸.	I don't think that's too important. Maybe the seat	4	Α.	Same thing. It's not gonna cause any permanent
5		back angle may be more important.	5		injury, in this case.
6 (Q.	What about stiffness?	6	Q.	Are any of these factors that you and I have just
7 /	۸.	Stiffness of what?	7		gone over, and I think we've just gone over about
100		The seat.	8		twenty to thirty of them, do any of them affect your
9 /	۸.	The stiffer the seat, the more head rotation you'll	9		conclusions about injury threshold in this rear-end
10		get, head angular acceleration you'll get.	10		auto crash?
11 (2.	Head restraint position?	11	A.	No. They're all well within the activities of daily
12 /	۸.	The farther back it is, the lower it is, you get	12		living, so there's no there's no injury.
13		higher angular acceleration.	13	Q,	Let's turn to your NFL study, please. Under
14 (2.	Whether someone is wearing a seat belt and a lap	14		conclusions, your second conclusion is that there is
15		restraint?	15		recent data from the NFL, and that's been discussed
16 /	٧.	Probably minimal difference.	16		in your paper, correct?
17 (2.	What about whether somebody is anticipating the	17	Α.	Yes.
18		crash or not?	18	Q.	Page two and the top of page three, correct?
19 /	١.	There's a recent study that said that anticipation	19	۸.	Yes.
20		helps a little bit, but the startle effect is	20	Q.	And that was your analysis of fifty-three cases of
21		probably minimal.	21		mild concussion among NFL football players, correct?
22 () .	Vehicle weight and velocity?	22	Α.	Yes.
23 /	١.	That goes to the severity of the impact. The	23	Q.	Using game films?
24		more the heavier the impacting vehicle, the more	24	Α.	Yes.
25		severe the impact.	25	Q.	Is Joy Lloyd a football player in the NFL?

Page 63 Page 61 differences in probability of injury for various I A. No. groups within our population? 2 2 O. Does Joy Lloyd have the same average height, weight, 3 A. I sure hope so, because we published with less gender or age as a football player in the NFL? numbers in the past. 4 A. No. 4 5 O. What is a confidence interval? 5 O. Does she have the same level of fitness? 6 A. That's the interval in which you have confidence 6 A. No. that this might occur within a certain probability. 7 O. Can we agree that NFL players have almost freakish 8 Q. Is it generally accepted using statistical criteria size, speed and strength relative to the average 9 that the confidence coefficient in studies should be population? Q 10 set at .95? 10 A. Yes. 11 Q. Do you believe Joy Lloyd has the same size, speed 11 A. Yes. 12 Q. Would you agree that, in general, statistical design and strength versus the average population? 12 of an experimental investigation calls for random 13 A. She's average, probably. 13 selection of subjects from the population to which 14 Q. Probably? 14 15 inferences should be drawn? 15 A. Yeah. 16 Q. Have you performed any calculations, or is that just 16 A. If you can do that, yes. 17 Q. When this condition has been met, it is then your guess? 17 possible to form interval estimates of population 18 A. Well, I have no idea what the -- her specific brain 18 properties might be, but she -- normally, everybody 19 parameters? has average properties. That's all you can assume. 20 A. Well, the -- our argument is that the brain is a 20 brain, whether you're an NFL player or -- you're a 21 Q. These fifty-three cases of football players were 21 human being. Your brain tolerance is -- is the compiled using game film, correct? 22 22 same, and therefore, it doesn't matter whether you 23 A. Yes. 23 select them from the NFL players or Joe Blow on the 24 Q. They were not crash tested? 24 street, so we are doing random selection. 25 A. No. 25 Page 64 Page 62 1 Q. They were not put in like target vehicles that Joy 1 Q. When this condition has been met, it is possible to form interval estimates of population parameters? 2 Lloyd was in and struck by like bullet vehicles like the semi truck that struck her, true? 3 4 Q. In order to investigate differences in probability 4 A. True. of injury for various groups within the population, 5 Q. Doctor, do you believe that a statistician who would 5 an adequate size sample of members from each group be used in a scientific study to investigate 6 6 7 must be used in a like rear-end collision experiment differences in probability of injury for various 7 in order to establish sufficiently narrow confidence 8 groups would find that your study of fifty-three 8 football players from the NFL would be an adequate intervals? 9 9 sample size? 10 A. No. That's bologna. We are talking about head 10 11 A. I don't know what you -- what are you asking me? 11 angular acceleration here and if that's what your tolerance measure is, then it doesn't matter how you 12 Q. Do you believe that fifty-three NFL players is a 12 sound and adequate sample size to draw conclusions got hit. It's the angular acceleration that we're 13 13 relative to the average population? 14 talking about. 14 MR. GURSTEN: Counsel, at this point, I'm 15 A. Absolutely. We do --15 going to reserve the right to call a statistician as 16 Q. And do you believe --16 a rebuttal witness at time of trial. 17 A. We do --17 18 Q. I'm sorry, continue to answer. 18 BY MR. GURSTEN: 19 A. We do - we draw conclusions from a lot less cadaver 19 Q. Doctor, my question to you is very simple. studies all the time. Fifty-three is a huge number MR. SZTYKIEL: So long as you let me 20 20 21 for our -- for our analysis. 21 depose him before you call him. 22 Q. Do you believe that a statistician, someone who has 22 BY MR. GURSTEN: a doctorate in methodology of research, would agree 23 Q. My question to you is very simple. 23 with you, that fifty-three NFL players represents an MR. GURSTEN: Well, as a rebuttal witness, 24 24

25

adequate sample size to draw conclusions about

25

if he testifies to this and it's actually admitted

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		Page 65			Page 67
1		by the judge in court.	1		increased or decreased the severity of the forces on
		MR. GURSTEN:	2		her brain?
3	Q.	My question to you, Doctor, is simple. Do you			Increased.
4		believe a Ph.D. statistician would say that your	100	1.75	If it did not break?
5		sample size of fifty-three NFL male football players	1100		Correct.
6		allows you to draw valid inferences to the general	6	Q.	How do you know the glass had been scratched prior
7		population, and to Joy Lloyd with specificity?	7		to the accident?
8	Λ.	Well, I don't know why you'd bring in a	8	Λ.	Because Dr. Nyquist did the whole series of
9		statistician. They know nothing about biomechanics.	9		experiments and that's how he concluded that.
10	Q.	Doctor	10		Unless he scratched the glass, he cannot break it.
11	Α.	So I don't think that's a legitimate question.	11	Q.	Did Dr. Nyquist use this vehicle in his sample
12		MR. GURSTEN: Would you read back my	12		population?
13		question, please?	13	Α.	No.
14		(The requested portion of the record was	14	Q.	Did he use the year of this vehicle?
15		read by the reporter at 11:29 a.m.)	15	A.	No. Close. It was eighty something.
16		THE WITNESS: Yes, I think so, if I can	16	Q.	Did he use either volunteers or crash test dummies?
17		convince him that the NFL football players' brain is	17	Α.	Dummies. He used dummies.
18		no different than Joy Lloyd's brain.	18	Q.	Did those dummies have the exact height, weight
1672	BY	MR. GURSTEN:	19		characteristics as Joy Lloyd?
20		Do you believe that your sample size of fifty-three	20	Α.	It doesn't matter.
21		NFI, football players and its data that you've			Did
22		derived from it, assuming that you meet indicators	1	-	Just a matter of
23		of statistical reliability, Doctor, do you believe	0.00		those crash test dummies have the same height
24		that that data allows you to prove that it was	150.70		No.
25		impossible for Joy Lloyd to be injured, or just that			and weight
-			-	4.	2 100 (50 mar - 150)
L		Page 66	100		Page 68
1.		it was unlikely for Joy Lloyd to be injured? I don't like to use impossible. It's extremely	100		as Joy Lloyd?
100	Λ.	. [18] [18] [18] [18] [18] [18] [18] [18]			No.
3	0	unlikely.	9.0		Did those dummies have the same skull — inside of
35	Q.	It is still possible that Joy Lloyd would have been	5	Ų.	their skull formation, same brain, same
5	OM:	injured?			
1000	Α.	Yeah. A rock can drop on my read right now. That's	6		vulnerabilities or susceptibilities to injury as Joy
7	-	also possible.	7	27	Lloyd?
	Q.	It was still possible for Joy Lloyd to be injured,		A.	No. He wasn't looking for brain injury. He was
9	1000	true or false?	9		looking for head acceleration.
100		True,	1000	Q.	- [- [하는 경기 전기 점점 기업
11	Q.	Turn to your fifth conclusion. Have you had a	11		curb every day on my way to work with no problem for
12		chance to review it, Doctor?	12		ten years, and then one day I step off that curb and
100		Yes.	13		I turn my ankle. Can we first agree that an injury
18.00	Q.	Are you saying that her head striking the glass	14		did not occur to my ankle in those first ten years
15		behind her was a good thing, that it helped lessen	15		of me stepping off the curb?
16		the severity of the impact?			Yes.
Daniel B		Yes.	1500	Q.	
18	Q.	Do you believe it would also then be a good thing if	18	1020	couple thousand times that I stepped off that curb?
19		we move car windshields to two inches in front of			Correct.
20	0.000	our heads when we drive?		Q.	But can we agree that an injury may have occurred on
0.00		No, no. It's only a good thing because it broke.	21	1990	the 2001st time that I stepped off that curb?
22		You're saying it's a good thing that her head broke	11813		Yes.
23		the glass?		Q.	Can we agree that a biomechanical engineer can be
		Yes.	24		hired to say that it is unlikely that I will turn my
25	Q.	If her head did not break the glass, would that have	25		ankle by stepping off a curb?

LLOYD VS. FIRST CHOICE TRUCKING AND REPAIR, INC. Page 69 Page 71 1 A. I don't think so. 1 A. Sure. 2 Q. Can a biomechanical engineer be hired after the 2 Q. If we can agree that the odds of someone dying in a fact, after I have already turned my ankle, to say plane crash are one in one million beforehand, what 4 that I could not have turned my ankle? 4 are the odds or the likelihood of someone dying in a 5 A. No. plain crash once that person is already dead? 6 Q. And that's because it's already occurred, correct? 6 A. A hundred percent. 7 A. Correct. 7 Q. If, in a very low speed or low impact damage car 8 Q. I would like you to assume, Doctor, in the vehicle -- let me strike that and start over. hypothetical I'm about to give you that there is 9 9 In, if a low speed or low damage impact 10 approximately a one in one million chance that 10 car crash case the chance to be hurt is very 11 someone will die in a plane crash, which is actually 11 unlikely, but treating doctors have already 12 pretty accurate to the real numbers, but I'd like 12 testified and found that that person was injured, 13 you to assume that hypothetical, okay? 13 can we agree that such testimony would be likewise 14 A. Okay. 14 ridiculous? 15 Q. Do you think it would be helpful to a jury to have 15 MR. SZTYKIEL: I'm going to object to the an expert testify in a plane crash death case, for 16 16 form of the question in that my expectation is, is 17 that jury to hear an expert say that it is very 17 that treating physicians will testify only that it 18 unlikely that someone will die in a plane crash? 18 is their opinion that the plaintiff has been 19 A. That's true. It's very unlikely. 19 injured. 20 Q. Can we agree that if the expert testifies that most 20 MR. GURSTEN: Noted. 21 people, or the average person will not die in a 21 Let me ask that question again because plane crash, do you believe that will be helpful or 22 22 I – I plan on playing this back. not helpful to a jury in a plane crash death case? 23 23 BY MR. GURSTEN: 24 A. I don't understand the question. I don't know what 24 Q. My question to you is this, Doctor: If in a low you're driving at. speed or low damage car crash case, do you believe Page 70 Page 72 1 Q. Oh, I think it's pretty clear. Let me ask that 1 it would be helpful for a jury to hear that the 2 again. If we have a plane crash death case, do you 2 chances of someone being hurt are very unlikely when 3 think it's helpful to a jury to hear testimony from 3 treating doctors have already indicated that that 4 an expert that it's very unlikely for someone to die 4 person is injured? in a plane crash? 5 5 MR. SZTYKIEL: Same objection. 6 A. No, it's not helpful. 6 THE WITNESS: First of all, I do not 7 Q. And do you think it would be likewise helpful for a 7 believe doctors are qualified to correlate the jury to hear an expert testify that most people, or 8 injuries to the event. They can note dysfunctions 9 an average person would not die in a plane crash? 9 and maybe symptoms related to whatever you call 10 Do you think that would be helpful in a plane crash. injury, but we are the ones who study injury and the 10 11 death case? cause of injury, and it's based on the cause and the 11 12 A. An average person will not die in a plane crash? An 12 input that I'm saying that it's unlikely. It's got average person will die in a plane crash. I don't 13 13 nothing to do with statistics. It's got nothing to 14 understand the question. do with what the doctor says. I'm saying, the 14 15 Q. Let me try this again. Do you believe it would be 15 injury is not caused - whatever it is, is not 16 helpful for a jury to hear, in a plane crash death 16 caused by this accident. 17 case where someone is already dead, from an expert 17 BY MR. GURSTEN: who would opine that because the chances of dying in 18 18 Q. Let's assume the Federal Rules of Civil Procedure 19 a plane crash are one in one million, that it is 19 and the Rules of Evidence disagree with your 20 very unlikely, or that the average person will never 20 opinion --21

22

23

24

25

would be ridiculous in the face of a pathologist who

die in a plane crash?

24

25

22 A. No, I don't think experts will say that.

23 Q. Can we agree that such testimony from an expert

is testifying that someone is already dead?

21 A. Well, I'm sorry, but the Federal Rules do not

the doctor and they think the engineer is not

trained to do this, but actually, the engineer is

the only one - the biomechanical engineer is the

understand the Daubert. They just always believe in

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		Page 73			Page 75
1		only one who can give you causes of injury. Nobody	1		the injuries that that person has already
2		else.	2		suffered
3	Q.	I understand that's your opinion, Doctor.	1 199		. I do not
4	Α.	That's a fact of life.	4	Q.	true
5	Q.	I see.			agree with
6	Α.	That's our training. You have has every every	6	Q.	or false?
7		doctor been trained to understand causation of	7	Α.	False.
8		injury? Do they teach that in the medical school?	8	Q.	And your opinion is that is false because you say
9		They do not.	9		that a medical doctor is not qualified to testify as
10	Q.	I think they do.	10		to causation of the injuries that he or she is
11	Α.	They go by history and that's not reliable.	11		treating his patients for?
12	Q.	Let's - let's go back to my question, please. Do	12	Α.	Correct.
13		you remember my question, sir?	13	Q.	True?
14		MR. SZTYKIEL: I think he answered it,	14	Α.	True.
15		actually.	15	Q.	Can we agree, in this case, your opinions regarding
16		MR. GURSTEN: Well, maybe. I'll I'll	16		the likelihood of Joy Lloyd being injured or not
17		take an answer now, though, because I don't believe	17		injured are just as helpful as it would be for the
18		he did.	18		jury to hear an expert testify regarding likelihood
19	BY	MR. GURSTEN:	19		of dying in a plane crash, where the person has
20	Q.	Do you remember my question or would you like me to	20		already been found dead by a pathologist?
21		repeat it, sir?	21	Α.	That's a ridiculous comparison. I do not go by
22	Λ.	I think I've just answered whatever you say and	22		statistics. I go by data, by the data I have. She
23		that's it.	23		was not
24	Q.	Well, that's not it.	24	Q.	Are statistics a form of data? Are statistics a
25	Α.	Not gonna answer it again.	25		form of data?
		Page 74			Page 76
1	Q.	Well, this is my discovery deposition, so	1	Α.	Well, you're talking about
2	Λ.	Then you better	2	Q.	Are statistics a form of data?
3	Q.	Let's try one more time, with all respect, and	3	Λ.	You're just twisting my words. I'm sorry, I don't
4		listen to my question and tell me if you can answer	4		play games with you.
5		it without giving me your opinion on what doctors	5	Q.	Doctor, are statistics a form of data?
6		should or should not be able to testify to under the	6	Α.	Yes, but I'm not talking about epidemiological data.
7		Rules of Evidence.	7	Q.	I see. You are not a medical doctor?
8	۸.	Because your question is not according to the facts	8	Λ.	That doesn't matter.
9		of what the engineers are supposed to do, and	9	Q.	You are not a trauma epidemiologist?
10		therefore, your question is wrong.	10	A.	We've been through that,
11	Q.	Well	11	Q.	Am I correct?
12	Α.	You cannot base it on what the doctors say.	12	Α.	Yes.
		Doctor	13	Q.	Okay. Turn to your conclusion number six, please.
		The doctors	14		Have you read it?
15	Q.	I've already heard you.	15	Λ.	Yes.
16	Α.	So I said, if you if you rely on the doctors'	16	Q.	Have you reviewed it?
17		opinion, I said it doesn't matter. It's not			Yes.
18		reliable.	No. of		Do you believe that you are qualified to render
	Q.	Are you done?	19		opinions to a jury regarding medical diagnoses or
		Yes.	20		injuries without being a medical doctor?
		Okay. If, in a low speed or low damage car crash	21	Α.	I don't do diagnosis.
22	-0001:	case, the jury hears testimony that it is very			Okay. You state in your conclusion, any symptoms of
23		unlikely that someone could be injured, can we agree	23		a mild traumatic brain injury of Ms. Lloyd should be
24		that such testimony would also be ridiculous in the	24		temporary and reversible
25		face of treating medical doctors testifying as to		Α.	Yes.
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LLO.	YD VS. FIRST CHOICE TRUCKING AND R	EP	AI	R, INC. JANUARY 15, 2005
	Page 77			Page 79
1 Q.	- true? That's what appears there.	1	۸.	Doesn't matter. We're talking about the angular
2	We've already discussed that you have	2		acceleration here.
3	performed no testing on Joy Lloyd to find out how			No, we're not.
4	much force it would take to injure her brain, true?			Yes, we are.
5 A.	True.			I'm talking in general.
6 Q.		0.00	Α.	The brain is sensitive to angular acceleration. It
7	predisposition, how her brain metabolizes glucose,	7		doesn't care how big the brain is or how strong the
8	chemical reactions within her brain, the bony ridges	8		body is. 'This is all irrelevant. You're just Doctor, do you believe you're acting like an
9	inside her skull, or any other factors in the	9.73	Q.	advocate again? Are you being fair and evenhanded
10	literature, whether you agree with them or not, that	10		right now?
11	may indicate an increased vulnerability to traumatic	11		Yes, of course.
12	brain injury because you've never tested her, true?	555		
13 A.		1155	Q.	Okay. MR. GURSTEN: Read back my question,
14 Q.		14		TE TO THE TOTAL PROPERTY OF THE TOTAL PROPER
15	true?	15		please. (The requested portion of the record was
	Yes.	16 17		read by the reporter at 11:48 a.m.)
17 Q.		101100	DV	MR. GURSTEN:
18	no testing to disprove, true?			In general, is that a proposition that we can agree
12.	I think it's your burden to prove she's not average.	20		with?
20 Q.				No. We're not comparing Joy Lloyd butting heads
21	no testing to disprove, true? I told you, I cannot do any testing on a live human,	22	-04	with an NFL player. That's not what
22 A.	so I don't think I can answer that question. That's		Q.	Te 53
23	not possible. How can I test her? It's ridiculous.			That's not what we're talking about and that's what
24	You cannot ask questions that I cannot perform on	25		you're leading to and I don't think that's true.
25		-		Page 80
	Page 78	١,	0	Doctor, with all respect, since you don't have a
1	things I cannot perform.	2		crystal ball and you can't read my mind, at least
2 Q.		3		not as well as you think you can, is the statement
3	Lloyd and you have no data from any testing to	4		of fact that I just made accurate or inaccurate?
4	disprove it? I have data from fifty-three cases of brains		Α	Inaccurate, as far as the brain is concerned.
	Yes, of NFL football players. I'm aware of that.			Accurate regarding everything else but the brain?
	Which — which show that these numbers are much			Yes.
8	higher than what Dr. Z. claims they are.			Your size, your weight, your height, your gender,
9 0.	and the second s	9		your age
10	already gone over this before, that Joy Lloyd is	10	Α.	Given the same angular acceleration, it's the same
11	not does not have the same physical	11		thing.
12	characteristics; height, weight, gender, size as an	12	0.	What if it's not the same angular acceleration?
13	average NFL football player, true?			Then all bets are off.
14 A.	m v t t t t t V v v v	14	Q.	Okay. What if there are multiple various motions on
15 Q.		15		the brain at one time, are all bets also off?
16 A.		16	A	No. That doesn't really matter.
17 0.		17		Well, why are all bets off?
18 A.		18	A	If you have a more severe impact, then of course,
19	just because I have brawn, I have better brains.	19		the conditions are different, but if - if the NFL
20	That's ridiculous.	20		player and Joy Lloyd suffers the same angular
21 Q.		21		acceleration, they have the same injuries or no
22	better brawn, that your brain may be less vulnerable	22		injury.
23	to injury from an impact than someone who is more	1000	Q	에 마음을 이렇게 되어 어느를 가게 되었습니다. 이번 이렇게 보고 있는데, 그런데 있는데, 그런데 그렇게 보고 있는데, 그런데 그렇게 있었다. 얼마나 보고 있다. 그런데 그렇게 되었다. 그런데 그런데
24	vulnerable because of size, weight, gender, size or	24		besides just angular acceleration, correct?
25	genetic predisposition?	25	A	. Correct.

Page 83 Page 81 to render such opinions based upon what you may have 1 Q. What are some of the other ways where the brain can 1 2 heard at a lecture. My question to you is simple, 2 be injured in a rear-end car crash, besides angular 3 Doctor --3 acceleration? 4 A. That's -- that's all I have. 4 A. If you hit your head real hard on something. 5 Q. Okay. My question to you is simple. Can we agree 5 Q. Okay. What else? that even though many cases will be temporary and 6 A. That's about it. reversible, that there are still cases of mild 7 Q. Okay. Do you note in your report that Joy Lloyd hit 7 traumatic brain injury that are not? her head on the glass behind her? 8 9 A. Yes. 9 A. I don't know. 10 Q. You do not know? 10 Q. Okay. Going back to your conclusion number six, you 11 say that any symptoms of mild traumatic brain injury 11 A. I cannot tell you that. 12 Q. You wrote in your report, am I not reading this 12 should be temporary and reversible, do you not? 13 A. Yes, I do. 13 correctly, any symptoms of a mild traumatic brain 14 Q. Okay. Do you believe you know more about brain 14 injury should be temporary and reversible? You wrote that, did you not? 15 injury and are better qualified to opine upon 15 16 whether it should be temporary and reversible than 16 A. Yes. 17 Q. Okay. When you wrote that, were you writing that as 17 the treating board certified medical doctors who are a biomechanical engineer, or were you writing that 18 rendering treatment to Joy Lloyd for her brain 18 19 injury? 19 as a medical doctor? 20 A. Biomechanical engineer. 20 A. I'm not saying that. 21 Q. Okay. When you say should be temporary and 21 Q. Okay. Then I'm asking you as a biomechanical reversible, can we agree that there are cases where engineer, does the medical literature not reflect 22 22 23 it is not temporary and reversible? 23 that although many cases of mild traumatic brain 24 A. I'm only saying that based on the data I have. 24 injury do improve over time, as you say are 25 O. Okay. Your fifty-three --25 temporary and reversible, that there are still many Page 84 Page 82 1 A. NFL players -cases that are not; is that true? 1 MR. SZTYKIEL: I'm going to object as to 2 O. -- NFL football players? 2 form and foundation. He's issued an opinion with 3 A. - have mild concussions that are reversible and not 3 respect to this specific case and you're asking him 4 as a general proposition. 5 Q. Doctor, I will go so far as to say that most cases 5 of mild traumatic brain injury do get better over MR. GURSTEN: If you're going to stipulate 6 7 that he is not qualified to render such an opinion time. Is that something you would agree with? to a jury, then I'll withdraw it. 8 A. Yes. 8 9 MR. SZTYKIEL: Well, he is, in this 9 Q. However, we can both agree that there are still a particular case. As a general proposition, I don't 10 number of cases that do not get better over time, 10 11 true? 11 know, I don't --12 A. Well, that goes to the other problems of clinical 12 MR. GURSTEN: All right. Then your objection is noted. depression and symptoms of clinical depression that 13 13 mask as -- as a brain injury and -- according to 14 BY MR. GURSTEN: 14 15 15 Q. Doctor, please answer my question. the -16 A. Well, based on the information that I have, these 16 Q. Are you testifying --17 A. -- lectures I've been to, -- and according to the 17 are reversible injuries, if there was one, and if lectures I've been to with neuropsychologists, they 18 there are other cases around that - that appear to 18 19 have a hard time with this. 19 be permanent, then I would say that there may be 20 other causes besides that, which is my next 20 Q. Are you testifying as a biomechanic, or as a medical 21 sentence. And so I don't think you can absolutely 21 doctor now? say there was an injury. As far as I'm concerned, 22 A. I'm testifying based on what I've heard from 22 23 the biomechanics of this is not sufficient to cause 23 lectures on clinical depression masking as brain 24 injury. 24 injury. 25 Q. We've heard. My question is, going back to your 25 Q. With all respect, I don't believe you're qualified

	Page 85	T		Page 87
1 sixth conc	usion, did you or did you not use the		Q.	Do you believe that these opinions that you have
	d in saying that any symptoms of mild	2		heard from an unnamed psychologist that you have
	orain injury such as Joy Lloyd suffered	3		asked have enough indicators of trustworthiness and
	d be temporary and reversible?	4		reliability that you should be able to opine upon
5 A. Yes.	d be temporary and is crosses.	5		them to a jury?
	sking you, are there not cases where such	6	Α.	These are
	atic brain injury is not temporary and	7	0.	They're in your report, aren't they?
8 reversible				Yes.
	again, it is it's a highly unlikely	1.0		Okay.
	's possible. I'm not saying it's	1	10000	These are
	, but it should			Are you qualified to render medical opinions
	lieve that you are more qualified or less			It's not
	nan the board certified medical	1000		- about Joy Lloyd?
	treating her for traumatic brain injury	10,150.0		It's not a medical opinion. It's just an
	oon whether the mild traumatic brain	15		explanation.
	mporary and reversible in this case or	250.5	0	It's a possible explanation?
* S. C.	imporary and reversione in this case of	9-137		Well, she does have clinical depression.
	t antiente co I connot onewer vour			But that's one possible explanation that you chose
	at patients so I cannot answer your	19	V.	to explain her symptoms of brain injury?
19 question.	on familiar anough with the medical	13/2/0	Α	Correct.
	en familiar enough with the medical oncerning mild traumatic brain injury to	21		There are other possible explanations that you chose
	at percentage of people who sustain mild	22	V.	not to put down in your report?
	. 10 m 이렇게 하면 없습니다. (10 mm) 이 나는 10 mm 에어에게 되었습니다. (10 mm) 이 이 사람이 아니다. (10 mm) 이 이 아니다.	11.0	Λ	I don't have a whole history. She might have banged
	orain injury do go on to have to	24	24.	her head on something else. I don't know.
	here it's temporary and reversible and what		a	In fact, all you have are the medical records from
25 percentage		+	V.	
500	Page 86	1000		Page 88 her first month after she was rear-ended by the
1 A. No.		1		
	you used it here, is your opinion as to	2	i Takon	truck three years ago?
	or the majority of people should do after	1127		Yes.
	such injury?		-	You have nothing else?
5 A. Yes.				That's right.
	ot medically examine or treat Joy Lloyd?		Q.	Do you believe that a board certified psychiatrist,
7 A. No.		7		physiatrist, neurologist or neuropsychologist would
	ot in a position, sitting here today, to	8		be more qualified than you to opine upon whether the
	t the effects are on Joy Lloyd today of	9		persistent symptoms of a brain injury are more
	tic brain injury, true?	10		likely attributable to other psychological
11 A. That's right		11		conditions of the plaintiff, such as clinical
	ur next sentence, persistent symptoms of a	12		depression, as you wrote in your conclusion number
	y are more likely attributable to other	13		six?
	cal conditions of the plaintiff, such as	12/2	Α.	마다 가게 되어 있다. 그리지 않는데 하면 하다 아니라 회사에서 가는 것이 되었다. 그리고 하는 사람들은 사람들이 되었다. 나는 사람들은 사람들이 되었다.
15 clinical de	pression?	15		they certainly don't know what caused it.
16 A. Yes.		16		MR. GURSTEN: Would you please read back
Fig. 1 reason at reveal March 1950 Section	ree that you are, once again, giving	17		my question?
P. C.	inions here?	18		(The requested portion of the record was
	based on what I've learned from my	19		read by the reporter at 11:59 a.m.)
19 A. That's jus				the state of the s
19 A. That's jus	st when I asked him	20		THE WITNESS: They are qualified to
19 A. That's just 20 psycholog 21 Q. Okay.	st when I asked him -	21		diagnose something, but not the cause.
19 A. That's just 20 psycholog 21 Q. Okay. 22 A why the	st when I asked him — re is symptoms of brain injury if there's	21	BY	diagnose something, but not the cause. MR. GURSTEN:
19 A. That's just 20 psycholog 21 Q. Okay. 22 A why the 23 no cause f	re is symptoms of brain injury if there's or it and he said it's very hard sometimes	21 22 23	BY Q.	diagnose something, but not the cause. MR. GURSTEN: So you believe that three and a half years later,
19 A. That's just 20 psycholog 21 Q. Okay. 22 A. — why the 23 no cause f 24 to find out	st when I asked him — re is symptoms of brain injury if there's	21 22		diagnose something, but not the cause. MR. GURSTEN:

Page 91 Page 89 established minimal threshold of force required to what's the cause of the symptomology in Joy Lloyd as 1 cause injury in an individual? 2 you did in your report, sir? 2 3 A. Oh, there is. Of course there is. There is always 3 MR. SZTYKIEL: I think not what is, but the activities of daily living. Accelerations 4 what isn't. 4 sustained in activities of daily living are usually 5 5 BY MR. GURSTEN: noninjurious, like you -- if you just -- it's very 6 6 Q. As you wrote in your report. hard to injure yourself if you walk into a wall, but 7 7 A. I'm saying what the cause is, is - is not - not if you run into it, you will. related and if --9 Q. Doctor, I'm familiar with all of those studies of 9 O. No, that's not what you said. You said that the daily living, such as the Allen study and the Murray 10 persistent symptoms of a brain injury are more 10 study and all of the others. Haven't they all been 11 likely attributable to other psychological 11 basically discredited in the last five years? 12 conditions of the plaintiff, Joy Lloyd, such as 12 13 A. No. It's -- doesn't -clinical depression. That's what you wrote, isn't 13 14 Q. Do you believe that they hold value here --14 117 15 A. Sure, they do. 15 A. Yes. 16 O. - when we're talking about the forces of Joy Lloyd 16 Q. Okay. I'm asking you, sir, as a biomechanical in a rear-end semi truck, car crash? engineer, if you feel that you're qualified to 17 17 18 A. Yes. render such an opinion three and a half years after 18 19 Q. Okay. What is the minimal threshold of force the crash, without any of her medical records, about 19 required to cause Joy Lloyd brain damage? what is the cause of her symptomology as you did in 20 20 21 A. That's not known. 21 your report? 22 O. What is the minimal threshold of force required to 22 A. Well, based on my -- based on what I know, I think cause Joy Lloyd to tear her rotator cuff? 23 1 - 1'm just providing a plausible explanation. 23 24 A. Well, that's not known either. 24 O. A possible explanation? 25 Q. What about a concussion of her temporal bones? 25 A. Yes. Page 92 Page 90 1 A. A concussion of what? 1 Q. Based upon what you were told by a psychologist? 2 Q. Her temporal bones. 2 A. Yes. 3 A. Bone cannot be concussed. 3 Q. Okay. Doctor, are you familiar with the book, Low 4 O. You don't even know what that is, do you? Do you Speed Automobile Accidents, by Dr. Allen Watts? know what --5 5 A. No. 6 A. Temporal bone is part of the skull. How do you 6 Q. If Dr. Watts takes the position that the fiftieth concuss a bone? percentile male stands a fifty percent chance of 8 Q. Have you ever heard of an audiogram test? injury at a Delta V of 7.5 miles per hour and that although the probability of injury is reduced as the 9 10 Q. Okay. If as a result of her audiogram it showed speed is reduced below 7.5 miles per hour, it cannot 10 that she had a concussion of her temporal bones -11 be said that a specific person did not suffer injury 11 12 A. Temporal bones? even at speeds as low as two to three miles per hour 12 13 O. You don't understand, do you? Okay. Delta V? 13 What is the minimal threshold of force 14 A. I don't even know if that's authoritative, what this 14 required to cause brow and eyelid ptosis to Joy 15 guy's background is --16 Q. I'm not asking you about that. Lloyd? 16 17 A. Brow and eyelid --17 A. I know. I --18 O. Paralysis, Doctor. 18 O. I'm asking you, with fourteen years as a 19 A. Paralysis? biomechanical engineer, whether you agree or 19 20 O. Yes. She's had seven to eight surgeries for it. 20 disagree? You don't have the medical records, but I want you 21 A. I disagree. It's just a wide ranging statement. 21 to assume that's true. I'm asking you, what is the 22 22 It's totally -minimal threshold of force required to cause that? 23 Q. Do you agree --24 A. That I don't think has ever been studied. 24 A. - unfounded. 25 Q. Okay. So you can't opine upon it? Do you agree or disagree that there is no

Page 95 Page 93 their peak head acceleration by as much as forty 1 A. Well, I don't even know that that's necessarily 1 related. I don't see the relationship at all. 2 2 3 A. I don't -- I'm not aware of any naval base in San 3 Q. I want you to assume that the treating surgeon has Diego that did any crash testing. I don't know performed seven to eight surgeries on her brow and 4 where you got that from. 5 her eye in this case, and I'd like you to assume 5 6 O. That's not my question. that there was some medical reason why he performed 6 7 A. But you said naval base in San Diego. I those surgeries and I want you to assume that he is 7 directly relating those surgeries to this car crash 8 9 A. There is no naval base in San Diego that does crash case. Do you know the minimal threshold of force 9 required to cause such an injury? 10 10 11 O. Doctor, I want you to assume that there is a paper, 11 A. I would say that would be a very severe impact that that as a result of crash testing at the US naval would cause that. This is not something that you 12 12 base in San Diego, that it demonstrated that an 13 can injure a local -- a nerve like this. This is --13 occupant leaning forward, away from the head 14 Q. Just so we're clear, Doctor, are you accusing her 14 restraint by as little as two inches, could increase orthopedic surgeon who did a rotator cuff surgery 15 15 their peak head acceleration by as much as forty 16 and her ophthalmologic surgeon -- her 16 percent. Do you agree or disagree with that 17 neurophthalmologist who's performed seven or eight 17 statement? evelid and brow surgeries, of medical malpractice, 18 18 A. In a rear-end -- minor rear-end impact? It's 19 19 of committing surgeries for no reason? 20 possible. 20 A. I'm just saying that they don't know the cause. 21 O. Okay. Now, you've mentioned repeatedly in your 21 They can do the treatment all they want -22 testimony today about your fifty-three NFL football 22 Q. Okay. players. I want to ask you about a study that I 23 23 A. -- but to opine on the cause -- on a cause, relating believe, and you may be familiar with, is the it to some accident, I think it's quite 24 24 largest population study of individuals with 25 25 irresponsible on their part. Page 96 Page 94 crash-related injuries to date. This is a study by 1 Q. Are you aware of any such problems before she was 1 Farmer in 1998, who found that in his report of rear rear-ended by the defendant's semi truck? 2 impact crashes in thirty-seven states, that his 3 A. I'm not --3 findings revealed that approximately thirty-four 4 O. Okay. Can you offer --4 percent of the men and forty-four percent of the 5 5 A. -- aware of anything. women were injured in crashes with property damage 6 Q. Can you offer any opinion as to what did cause these 6 of less than \$1,000.00. Is that a finding that you 7 injuries? 8 A. No, but --8 agree or disagree with? 9 A. I would disagree with these findings because their 9 O. Okay. Can we agree that all of these injuries that definition of injury is pain, and to me, pain is not you and I have gone over with her; traumatic brain 10 10 necessarily equal to injury, and therefore, these -injury, the rotator cuff, the others, are all highly 11 11 these statistics are suspect. It's very easy to dependent upon the susceptibility of the occupant? 12 12 have pain because of degeneration. Most people have 13 13 A. You can be susceptible. You can be an eggshell spinal degeneration, so as long as they complain of plaintiff, but it's just not very likely to tear 14 14 pain, they check it as injury and that is -- makes 15 15 your rotator cuff --16 it rather unreliable, unless you can show it's a 16 Q. Now we're going back -permanent injury of some kind, and if you go to 17 17 A. -- in a rear-end collision. that, you'll find that that's a very small number. 18 Q. -- to likely or not. I'm'asking you, can we agree 18 19 O. That's your answer? that a lot of it depends upon the susceptibility of 19 the occupant? Is that a true statement? 20 A. Yes. My studies in neurophysiology of pain tells me 20 21 that this is all wrong because they do not go in 21 A. Yes. Of course. 22 depth to research the difference between pain and 22 O. Okay. Do you agree that crash testing at the US injury. To you lawyers, it may be the same thing, 23 23 naval base in San Diego has demonstrated that an occupant leaning forward, away from the head 24 but to us biomechanical engineers, it's quite 24 different. restraint by as little as two inches, could increase

	Page 97			Page 99
1 Q. W	Vell, to doctors it's the same thing, also, after	1		injury right away.
	ney treat somebody following a rear-end car crash,	2	Q.	Doctor, do you believe that you're being biased
100	n't it, Dr. King?	3		right now?
4 A. I	don't know how they define it, but for us, we have	4	Α.	No.
	see an actual injury.	5	Q.	Okay.
6 Q. O	okay. Let me rephrase that. If medical records,	6	Α.	I read medical records all over the place and every
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	octor, as a result of this study, if they reviewed	7		time they come in, they always refer to it as an
8 m	nedical records of people who reported pain, and	8		injury, whether it's it's just a symptom or
9 th	nese medical records reflected by the treating	9		whether it's an organic injury, it's still an injury
10 de	octors that they were injured in thirty-seven	10		in the medical records. It doesn't matter.
11 st	ates	11	Q.	Do you believe that your opinion as a biomechanical
12 A. T	hat's	12		engineer should be substituted over a treating
13 Q	or approximately let me finish, please	13		physicians' regarding the medical diagnosis or cause
14 w	there approximately thirty-four percent of the men	14		of pain of their patient?
1 C 100 C 20 C 20 C 20 C 20 C 20 C 20 C	nd forty-four percent of the women reported	15	Α.	I'm not gonna argue with the diagnosis nor the
16 in	njuries to their medical doctors in crashes with	16		treatment, but the cause of the injury and the cause
17 pr	roperty damage of less than \$1,000.00, is that a	17		of pain, I think our studies are more detailed than
18 fi	nding that you agree with, or disagree with?	18		what they know about causes of pain.
19 A. I	still disagree with, because	19		MR. GURSTEN: Kim, would you read back my
20 Q. C	an we agree that that finding has a sample size	20		question, please?
21 th	nat is rather larger than your sample size of	21		(The requested portion of the record was
22 fi	fty-three NFL football players?	22		read by the reporter at 12:13 p.m.)
23 A. T	hat's irrelevant because they don't	23	BY	MR, GURSTEN:
24 Q. C	an we agree that that	24	Q.	Isn't that what you're doing right now, Doctor,
25 A. N	lo, I cannot agree.	25		you're substituting your opinion over that of the
	Page 98			Page 100
1 Q	sample size is larger than your fifty-three	1		treating medical doctors? So my question is
1777	ootball players?	2	Α.	No. I'm I'm making a differentiation between the
9100	's irrelevant. I can agree with you, but it's	3		permanent injury and just a symptom of pain because
4 ir	relevant.	4		those are different.
5 Q. T	his study also found that crashes with less than	5	Q.	How do you know, one or two years post crash, if an
	500.00 in reported damage accounted for	6		injury is going to be permanent?
7 tv	venty-three percent of the men and eighteen percent	7	Α.	How do I know?
8 0	f excuse me twenty-three percent of the women	8	Q.	How can you say that?
9 at	nd eighteen percent of the men who reported	9	Α.	Based on the severity of the impact and based on
10 in	njuries, is that something you agree with or	10		what we know about what the input accelerations are.
11 di	isagree with?	11	Q.	But we can agree
12 A. 1	same thing. I don't agree with those numbers.	12	Α.	This is not a concussive injury that's permanent.
	to you agree with the following statement, Dr. King:	13	Q.	But we can agree - you and I are both aware of
14 T	hat low probability of injury in a general	14		cases where there has been extremely high amounts of
15 pc	opulation does not help determine the presence of	15		vehicle damage and the occupants have basically
16 in	ijury in an individual after that individual has	16		walked away without injury, correct?
17 al	ready been injured?	17	Α.	Yes.
18 A. If	that depends on what you define as injury.	18	Q.	And we can also agree, likewise, that there have
19 T	hat's a major problem here. If pain is equal to	19		been cases where there has been relatively low
20 in	ijury, yeah, sure. But pain is not	20		amounts of vehicle damage and the occupants have
21 Q. W	What about if what about if injury is equal to	21		been severely injured, true?
22 in	ijury as regarded by the treating medical doctor?	22	Α.	That's very rare.
	hat's not necessarily a a good definition	23	Q.	But that happens, true?
24 Q. O	kay.	C.00		Yes.
25 A	because they they see pain, that call it	25	Q.	Okay. When you say it's very rare, aren't your

	Page 101		Page 103
1	opinions in this case similar to the expert who is	1	CERTIFICATE OF NOTARY
2	testifying in a plane crash death case, that an	2	STATE OF MICHIGAN)
3	average person would probably not have been killed	3) SS
4	when a pathologist has already testified that that	4	COUNTY OF OAKLAND)
5	person is dead?	5	
6	MR. SZTYKIEL: Objection, asked and	6	1, Kimberly H. Kaplan, a Notary Public in and
7	answered about three times.	7	for the above county and state, do hereby certify
8	THE WITNESS: No, it's we're talking	8	that the above deposition was taken before me at the
9	about a specific input to the case and not a plane	9	time and place hereinbefore set forth; that the
10	crash and so that's that's a wrong analogy.	10	witness was by me first duly sworn to testify to the
	BY MR. GURSTEN:	11	truth, and nothing but the truth; that the foregoing
	Q. Doctor, one more question. I have your I have	12	questions asked and answers made by the witness were
13	your report regarding all of the cases that you've	13	duly recorded by me stenographically and reduced to
14	testified in. Can we agree that all of them, except	14	computer transcription; that this is a true, full
15	for one, have been on behalf of defendants?	15	and correct transcript of my stenographic notes so
	A. In the last four years, yes.	16	taken; and that I am not related to, nor of counsel
17	MR. GURSTEN: No more questions.	17	to either party nor interested in the event of this
	MR. SZTYKIEL: Can we go off the record?	18	cause.
18	VIDEO TECHNICIAN: Going off the record at	19	cause.
19	B TO SELECTION OF CHARLES IN THE SELECTION OF THE SELECT	20	
20	12:20 p.m.	21	
21	(Recess taken at 12:20 p.m.)	1995	Kimberly H. Kaplan, CSR-5096
22	(Back on the record at 12:31 p.m.)	22	
23	MR. SZTYKIEL: For the record, as opposed	23	Notary Public,
24	to doing any redirect of Dr. King at this time or	24	Oakland County, Michigan
25	direct of Dr. King, I'm just going to do that when	25	My Commission expires: August 5, 2004
	Page 102		Page 104
1	we do his video deposition next week.	1	INDEX TO EXAMINATIONS
2	MR. GURSTEN: I have no problem with that.	2	
3	(The deposition was concluded at 12:32	31	Witness
4	p.m. Signature of the witness was not	4	ALBERT WING
5	requested by counsel for the respective parties	5	
6	hereto.)	60	EXAMINATION
7		10	NY MR. CANSTENS
8		H.	
9		90	INDEX TO EXHIBITS
10		10	
11		11	Exhibit Page
12		12	(Exhibits retained by counsel.)
13		13	
14		20.00	DEPOSITION EXHIBIT NUMBERS 1-9
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15		15	
		1	
15 16 17		15	
16 17	3	15 16 17	
16 17 18	1	15 16 17 18	
16 17 18 19	3	15 16 17 18 19	
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