

IN THE SUPERIOR COURT FOR THE STATE OF ALASKA  
THIRD JUDICIAL DISTRICT AT ANCHORAGE

STATE OF ALASKA, )  
 )  
Plaintiff, )  
 )  
VS. )  
 )  
ELI LILLY AND COMPANY, )  
 )  
Defendant. )  
\_\_\_\_\_)  
Case No. 3AN-06-05630 CI

VOLUME 10

TRANSCRIPT OF PROCEEDINGS

March 14, 2008 - Pages 1 through 252

BEFORE THE HONORABLE MARK RINDNER  
Superior Court Judge

A-P-P-E-A-R-A-N-C-E-S

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## PROCEEDINGS

THE COURT: We're on the record in  
State of Alaska vs. Eli Lilly and Company,  
3AN-06-05630. Counsel are present; we're out of  
the presence of the jury. I understand there's a  
motion to take up.

MR. ALLEN: Yes, sir, Your Honor.  
Scott Allen.

Can I approach?

THE COURT: Sure.

MR. ALLEN: Your Honor, I handed  
you excerpts from John Lechleiter's deposition of  
yesterday, along with your rulings on the  
deposition, as well as an e-mail that was sent to  
me on March 8th from Adam Michaels, with a carbon  
copy to Mr. Lehner, concerning the deposition,  
asking me to include certain portions of the  
Lechleiter deposition in our cuts. Included  
within that was 300 -- Page 365, Line 24 to 366,  
Line 6.

Yesterday, as you recall, in the  
deposition we were asked to stop the tape --  
actually, the second time I asked the tape to be  
stopped. We were asked to stop the tape twice  
because there was an alleged error that had

occurred in the presentation of the testimony.  
Those errors occurred at Pages 110, Line 4 to  
110, Line 15 and 110, Line 18 to 111, Line 6.  
That was the first time we had to stop the tape.  
I -- I worked hard on getting these depositions  
ready.

By the way, Your Honor, I -- for  
the record, we're going to try to present five of  
them today that will take less than two hours,  
and I was up till 3:00 a.m. to look at them, and  
I hope nothing happens, but anyhow. I wanted the  
Court to note, just for the record, because I  
understood the Court was upset, justifiably, if I  
had put something in the record. But at one --  
the first time it happened I was playing -- the  
objections by the defendants were overruled and  
that's why the material was in the tape.

And the last time, when I stood up  
and stopped it, that material was included at the  
request of Eli Lilly. So I didn't want to have  
two strikes going against me today if -- if, in  
fact, another event occurs. And Mr. Lehner -- I  
like Mr. Lehner -- but he did say yesterday,  
"Mr. Allen has two strikes," and so I want the  
record to be clear. But more importantly, Your

1 Honor, I would like to be able to present not  
2 the -- I'll go ahead and just read the question  
3 and answer at Page 110, Line 4 through 111,  
4 Line 6, and present that to the jury concerning  
5 Dr. Lechleiter's testimony.

6 MR. LEHNER: Your Honor, I stood up  
7 yesterday with respect to this piece of -- these  
8 two items here on Page 110, because what was on  
9 the screen at that time, as you recall, was the  
10 document that you had sustained our objection to.  
11 And I think that was the cause of concern, and  
12 that was the harm. The jury saw a Wall Street  
13 Journal article -- what they saw certainly was on  
14 the screen, but that was what was presented to  
15 the jury, and you had, as you recall, sustained  
16 our objection to that.

17 And with respect to the last piece  
18 here, that counterdesignation was designed to be  
19 included, indeed, provided that the previous  
20 parts of the deposition had been played and those  
21 had not been played. So I think that's really a  
22 nonissue. But I think the harm was the document  
23 being shown to the jury.

24 THE COURT: Again --

25 MR. LEHNER: And just for the

1 record, I was not -- and I told Mr. Allen this  
2 morning. This has been a confusing process.  
3 It's difficult -- we said, I appreciate all the  
4 work that everybody is doing on our team and on  
5 theirs to get this right, and my point yesterday  
6 is we need to get the technicians working  
7 together so this is done in the way you want it  
8 done.

9 THE COURT: Again, nobody is in  
10 trouble with me.

11 MR. ALLEN: Okay.

12 THE COURT: Nobody has strikes.

13 MR. ALLEN: Okay.

14 THE COURT: I'll take some of the  
15 heat, because if I had done what I probably  
16 should have done, which is brought in all the  
17 material that you had, I probably could have seen  
18 that I included that portion, but I agree with  
19 Mr. Lehner that the exhibit, I do recall, was not  
20 permitted.

21 MR. ALLEN: Yes, Your Honor, but  
22 let me --

23 THE COURT: And so my understanding  
24 is what you want to do is read the --

25 MR. ALLEN: Yes, sir, the question

1 and answer.

2 THE COURT: -- from 110, 04 to 110,  
3 15 and 110, 18 to 111, 06.

4 MR. ALLEN: Yes, sir.

5 THE COURT: And since I had  
6 overruled the objection to that and just for the  
7 record, it's because it's dealing with the issue  
8 of the stock dropping in response to the Prozac  
9 patent --

10 MR. ALLEN: Yes.

11 THE COURT: -- which, as I  
12 understand, is part of the motive allegation in  
13 this case, that because of the loss of the Prozac  
14 patent, there was more desire on Lilly to promote  
15 Zyprexa. I'll allow that to be read to the jury,  
16 and I'll give them an explanation that a portion  
17 of the thing was excluded that I've permitted,  
18 and that it's now going to be read.

19 MR. ALLEN: Thank you, Your Honor.  
20 I do want the record to reflect -- I mean, we've  
21 had our differences, Mr. Lehner and I, but  
22 they're professional, and I just want to make  
23 sure everybody understands that.

24 THE CLERK: If I think people are  
25 unduly sniping at each other, I'll let you know.

1 I don't foresee anything that's  
2 been going on other than there's been some  
3 good-natured banter and there's probably been a  
4 little tension and stress, but I understand the  
5 stakes in this case and I don't feel anyone has  
6 crossed my lines.

7 MR. ALLEN: Right. Thank you, Your  
8 Honor. I appreciate it.

9 THE COURT: Again, as I've said, I  
10 believe that I have excellent attorneys in this  
11 case, all of whom are acting quite professionally  
12 to my satisfaction.

13 MR. ALLEN: Thank you, Your Honor.  
14 I appreciate it.

15 I'll let the Court know, but I --  
16 we need to get Dr. Wirshing on. I'm -- I've  
17 given -- or getting copies to the defense lawyers  
18 now. I gave them the original exhibits. We  
19 forgot to introduce some exhibits at the time of  
20 Ms. Eski's deposition, and at some point today  
21 I'm going to try to do that, and then I want to  
22 bring up another issue, but it's premature, but I  
23 appreciate the Court's time.

24 THE COURT: Okay. Before we  
25 start -- we bring in the jury and start taking

<p style="text-align: right;">Page 10</p> <p>1 testimony, Lilly yesterday filed a renewed motion  2 for mistrial concerning the rendering of  3 treatment by doctors, one of whom has now been a  4 witness in this case for the State, and one of  5 whom, I guess, today will be a witness for the  6 State, citing to me a number of cases. After  7 questioning the jurors and all the jurors  8 indicating that nothing about the incident would  9 affect their ability to evaluate those doctors'  10 testimony in the exact same way as anybody else's  11 testimony, I denied the oral motion for a  12 mistrial. Lilly cited to me a number of cases.  13 I find the cases generally to be  14 distinguishable. There's the case of Campbell  15 versus Fox, which is 498 Northeast 2d 1145. In  16 that case the doctor rendered a -- it was  17 actually the defendant and it was in a medical  18 malpractice case, in which the doctor's  19 competency was at issue.  20 Same as to Reome, R-e-o-m-e, versus  21 Portland Memorial Hospital, which is at 152AD 2d  22 773. It's a New York appellate case, and, again,  23 the doctor admin -- the defendant doctor in a med  24 mal administered to the jury. an unpublished  25 decision in Hochadel versus Saint Luke's</p>	<p style="text-align: right;">Page 12</p> <p>1 up with the juror wasn't going to be sufficient  2 in itself to render -- to require a new trial.  3 It was only the cumulative effect in a criminal  4 case.  5 Likewise, State of New Jersey  6 versus Hunt, which is a -- at 138A 2d 1, it was a  7 murder case. Nonemergency treatment was  8 rendered, unlike this particular case. Other  9 doctors would have been available other than the  10 witness to do that, which is apparently -- the  11 trial judge even referred to that as being an  12 unfortunate choice, and again the Court found an  13 aggregate of errors in the criminal case.  14 The case that the State has cited  15 to me, Partlow versus State, 453 Northeast 2d  16 259, was a criminal case and they still  17 allowed -- did not require a mistrial and  18 affirmed the conviction. The witness was on the  19 stand and had to attend to a juror. The juror  20 ended up remaining on the jury, which is not our  21 case, and still they allowed that. In some ways  22 that may be the closest of the cases, although  23 there are facts and issues there that are  24 probably different.  25 But having reviewed the case law</p>
<p style="text-align: right;">Page 11</p> <p>1 Hospital. That's found at 1993 WestLaw 496681,  2 Ohio Appellate, Sixth District, also a med mal  3 defendant doctor.  4 State versus Rideout, 143 New  5 Hampshire, 363, a Supreme Court of New Hampshire  6 case from 1999. In that case the jury was in the  7 middle of its deliberations and a sheriff, I  8 believe, went out to help a juror get something  9 out of the car or something and the concern there  10 was communications with the juror. There's been  11 no indications of that in this case. And, again,  12 that was in the process of deliberation.  13 In State of Minnesota vs. Schwartz,  14 which is a Supreme Court of Minnesota case, at  15 122 Northwest 2d 769, again, it was a criminal  16 case. There were many assignments of errors that  17 led to the reversal and the mistrial in that  18 case, or actually the reversal, I guess. And the  19 decision, it says, with the exception of the  20 admission of the testimony of a particular  21 witness who was allowed to testify about  22 something improperly, we would not consider any  23 assignment of error herein before referred to as  24 sufficient in itself to justify a new trial.  25 In other words, the issue that came</p>	<p style="text-align: right;">Page 13</p> <p>1 authority, and, again, having questioned the  2 jurors, I do not believe that the case law  3 supports requiring a mistrial in this case based  4 on the record before the Court, and I'll deny the  5 renewed motion for mistrial.  6 I've also reviewed the case law as  7 well as the transcript concerning the motion to  8 strike the testimony of Duane Hopson. Two cases  9 were cited to me. One is the Miller versus  10 Phillips case, in which it wasn't error to allow  11 a witness who wasn't necessarily designated as an  12 expert to testify as to expert opinions. The  13 Court found no surprise, and also noted, I think,  14 something that I note here, that the witness's  15 testimony to the extent that there were hybrid  16 opinions expressed, in many ways was cumulative  17 of other witnesses and certainly a lot of the --  18 I don't think there's surprise here, having read  19 the transcript of his deposition.  20 The other case was Zaverl,  21 Z-a-v-e-r-l, versus Hanley. That's at 64 P3d  22 809, an Alaska case of 2003. The Miller case is  23 at 959 P2d 1247, a 1998 Alaska case. In that  24 case there was an affirmative statement, and  25 doctor's or expert's lawyer had refused to allow</p>

1 the expert to testify on the subject matter that  
 2 then he eventually was testifying to in court.  
 3 And I don't believe that that's the same  
 4 situation here, having -- the witness was fully  
 5 deposed, and while not all the questions were  
 6 asked, certainly the subject matter was gone into  
 7 in a general sense and could have been asked or  
 8 followed up.

9 And, again, given what I've seen  
 10 from other witnesses in this case, and  
 11 particularly witnesses who were the first two  
 12 witnesses, experts in this case, I don't believe  
 13 that Dr. Hopson's testimony can in any way be  
 14 seen as surprising. What may have been  
 15 surprising was that the State took up the  
 16 challenge of the defense in opening statement  
 17 that they weren't going to bring on any witnesses  
 18 from the State and the defense was.

19 In that regard, I note that having  
 20 heard the testimony of Dr. Hopson, had he  
 21 testified in Lilly's case and then all these  
 22 questions been asked in cross, I would have found  
 23 the cross to be entirely proper. I realize  
 24 there's a difference in allowing him to go first,  
 25 particularly in light of the opening statements,

1 but I don't think find that a sufficient reason  
 2 to strike his testimony, so I will deny the  
 3 motion to strike his testimony as well.

4 Dr. Breier's going to be our  
 5 first --

6 MR. ALLEN: No, Your Honor. It  
 7 will be Dr. Wirshing.

8 THE COURT: Sorry.

9 MR. ALLEN: Yeah. And then I'm --  
 10 I may leave and go get these depositions ready at  
 11 some point, but I'd like to -- the first thing  
 12 I'd like to do is read Dr. Lechleiter's  
 13 deposition --

14 THE COURT: So we're going to do --  
 15 I'll explain to the jury that -- what we're doing  
 16 with Dr. Lechleiter, and then Dr. Wirshing will  
 17 be on live here.

18 MR. ALLEN: Yes, sir.

19 THE COURT: Mr. Suggs, you're going  
 20 to question him?

21 MR. SUGGS: Yes, sir.

22 THE COURT: Okay.

23 Then we'll go off record; take  
 24 about two minutes to let the jury get ready.

25 We'll be off record.

1 THE CLERK: Please rise. Superior  
 2 Court stands in recess. Off record.

3 (Short recess.)

4 THE COURT: We're back on the  
 5 record and all members of the jury are present,  
 6 as are counsel.

7 Ladies and gentlemen of the jury,  
 8 we're going to start our testimony in a second.  
 9 The first thing you're going to hear is

10 yesterday -- I believe it was yesterday, you saw  
 11 the videotape deposition of Dr. Lechleiter. And  
 12 during the course of that testimony, a portion of  
 13 the video that I had indicated could be played,  
 14 we -- we stopped the playing of inadvertently.

15 And Mr. Allen is going to read that  
 16 short portion to you that was left out of the  
 17 video, and you should consider his reading of  
 18 that deposition testimony -- again, this is the  
 19 same deposition that you saw the video of. The  
 20 doctor was under oath, and you should consider  
 21 that as you would any other deposition testimony  
 22 or any other testimony in this matter, leaving it  
 23 up to you as to what the weight that you'll give  
 24 to the testimony and the fact that it's -- was a  
 25 videotaped deposition.

1 Following that, my understanding is  
 2 that the State is going to present a live  
 3 witness, and then after that live witness you've  
 4 got two --

5 MR. ALLEN: Well, I'm going --  
 6 after I read this, I'm going back to the hotel  
 7 and get the videos together, and I'll -- I have  
 8 less than -- I'll tell you this, I know it's less  
 9 than two hours of total videos left, and it may  
 10 be less than an hour and a half, and I just got  
 11 to go work on it.

12 THE COURT: There will be some  
 13 video depositions, and then after the video  
 14 depositions my understanding is the State's case  
 15 will be done.

16 MR. ALLEN: Yes, sir. Subject to  
 17 our --

18 THE COURT: If it looks like we can  
 19 get those video depositions in by 2:00ish or a  
 20 little bit like that in order to finish up the  
 21 State's case today, we'll probably go a little  
 22 bit long, but we'll see where we are depending on  
 23 how long the live witness takes and how long the  
 24 editing of the videos goes down to, but that's  
 25 what the process is. So I expect that the

1 State's case may end today and certainly will end  
2 early on Monday.

3 MR. ALLEN: No question.

4 THE COURT: And then the defense  
5 will begin the presentation of its case. So that  
6 just kind of gives you an idea of where we are in  
7 this process.

8 Mr. Allen, do you want to read the  
9 portions of Dr. Lechleiter's --

10 MR. ALLEN: Yes, sir.

11 Question to Dr. Lechleiter: Sir,  
12 I've handed you what's been marked as Deposition  
13 Exhibit No. 6. This is an online document I got  
14 from the Wall Street Journal's web page  
15 concerning stock prices. Particularly I was  
16 looking at the stock price of Eli Lilly in the  
17 year 2000, from August 1st to October the 10th.  
18 On August 1st Eli Lilly's stock price was  
19 somewhere near \$110 per share, and before the end  
20 of August it had dropped to \$75 a share, in  
21 August of 2000. What happened to cause this  
22 stock price fall?

23 Answer of Dr. Lechleiter: Stock  
24 price is generally responsive to -- can be  
25 responsive to external events. In this case we

1 were surprised to receive, I believe, in early  
2 August, at about the time that you point to this  
3 stock price decline, word that was quite  
4 unexpected, that a three-judge panel had reversed  
5 an earlier court's decision about the validity of  
6 our Prozac patent.

7 That concludes it, Your Honor.

8 THE COURT: Thank you.

9 Mr. Suggs, who is your next  
10 witness?

11 MR. SUGGS: Your Honor, the State  
12 of Alaska calls as its next witness Dr. William  
13 Wirshing.

14 THE COURT: Dr. Wirshing, if you  
15 could come forward, please, and if you could  
16 stand behind the witness chair, we'll administer  
17 an oath.

18 (Clerk swears witness.)

19 THE CLERK: For the record, would  
20 you please state your full name, spelling your  
21 first and last name, sir?

22 THE WITNESS: Full name is William,  
23 spelled conventionally, C., last name Wirshing,  
24 W-i-r-s-h-i-n-g.

25 EXAMINATION

1 Q. (BY MR. SUGGS) Good morning,  
2 Dr. Wirshing.

3 A. Good morning, David.

4 Q. How old are you, sir?

5 A. 51.

6 Q. And you live in the Los Angeles area?

7 A. I do.

8 Q. And you are a physician, correct?

9 A. That is correct.

10 Q. And you've been a doctor for over 25  
11 years?

12 A. Yes, it has been over 25 years.

13 Q. And have we retained you as an expert  
14 witness to testify about your opinions as to  
15 whether Zyprexa can cause diabetes and whether  
16 Eli Lilly adequately warned about the risks of  
17 Zyprexa?

18 A. Yes, sir, you have.

19 Q. And before we go into your opinions  
20 about Zyprexa, I'd like to first go over your  
21 educational background and your personal  
22 experience with Zyprexa.

23 A. Fine.

24 Q. First, you received your bachelor's  
25 degree in electrical engineering and computer

1 science in 1978 from the University of California  
2 in Berkeley; is that correct?

3 A. That's correct. I did a  
4 subspecialization in bioelectronic systems.

5 Q. And you received your medical degree  
6 from the University of California at Los Angeles  
7 or UCLA in 1982; is that right?

8 A. That is correct.

9 Q. And you've been licensed to practice  
10 medicine in California since 1983?

11 A. Yes. June of 1983.

12 Q. And you took your internship and  
13 residency in psychiatry at the Neuropsychiatric  
14 Institute at UCLA; is that right?

15 A. Not quite. My -- my internship was a  
16 combined medical, pediatric and neurologic  
17 internship, and I did that at the West  
18 Los Angeles VA and at UCLA.

19 Q. Okay.

20 And that internship and residency  
21 was another four years after medical school?

22 A. That is correct.

23 Q. And you completed the residency in 1986?

24 A. That's correct. I was chief resident in  
25 geropsychiatry right before I finished up, but I

1 completed it in June of 1986.

2 Q. Okay.

3 And then you spent an additional  
4 two years in a postdoctoral research fellowship;  
5 is that correct?

6 A. That's correct.

7 Q. And we've heard some prior testimony  
8 from Dr. Brancati and I believe others,  
9 Dr. Gueriguan, as well, about postdoctoral  
10 fellowships. Am I correct that generally those  
11 are for folks who are considering going into  
12 academic medicine?

13 A. Yes. It's -- mine was through the NIMH.  
14 My mentor and professor was the late Dr. Michael  
15 Goldstein, and it was specifically to study  
16 schizophrenia. It's obligatory when you're  
17 involved in a research fellowship that you pay  
18 back month for month, year for year, in academia  
19 the time that you spent in the fellowship, so  
20 you -- yes, it's anticipated, indeed. It's  
21 obligatory, at least for a time.

22 Q. Okay.

23 And the focus of your research  
24 fellowship was in the field of schizophrenia; is  
25 that correct?

1 A. Specifically schizophrenia, yes, sir.

2 Q. Okay. And has schizophrenia continued  
3 to be a particular focus of your practice and  
4 research since that time?

5 A. It has continued to fascinate me to the  
6 present day.

7 Q. And why is that your focus, sir? Why do  
8 you like to work with schizophrenia?

9 A. Oh, that's -- that's a very good  
10 question. It is -- in all of medicine, which I  
11 dearly love just about every single aspect of it,  
12 but in all of medicine it is the -- it is the  
13 particular mollusk in the tidal pool which  
14 fascinates me beyond all others. It is endlessly  
15 interesting, maddeningly impossible to  
16 comprehend, and it is -- it is a challenge every  
17 single day to deal with it. And it is -- it has  
18 always been an honor to be in the presence of  
19 these people.

20 Q. Okay. And, sir, you were board  
21 certified in psychiatry in 1988; is that correct?

22 A. Yes. I think it was 1988. Yes, sir.

23 Q. Okay.

24 And then you received an additional  
25 qualification in geriatric psychiatry in 1991; is

1 that right?

2 A. Yes. That was the first year that that  
3 designation was actually instituted, was in 1991.

4 Q. Okay.

5 A. I was the inaugural -- among the  
6 inaugural class.

7 Q. And after your medical training and  
8 residency and postdoctoral training, did you then  
9 become a professor at the medical school at UCLA?

10 A. Not quite. They don't start you out at  
11 the professor level. They torture you for a good  
12 number of years before you get to that rank. But  
13 I -- you start out -- I was an assistant  
14 processor there -- in the UC system there are  
15 five separate steps for assistant professor, each  
16 of which takes two to three years. There are  
17 then three steps at the associate professor, each  
18 of those taking -- taking three years, and then  
19 you make full professor.

20 Q. Okay.

21 A. There are nine ranks of full professor.

22 Q. Okay.

23 Sounds like peeling an onion.

24 A. It is indeed.

25 Q. Okay.

1 And you were a full professor at  
2 UCLA?

3 A. I was. I made full professor by the  
4 time I was 40.

5 Q. Okay. And for how long were you a  
6 professor at UCLA?

7 A. Well, counting up all the various onion  
8 layers?

9 Q. Yes.

10 A. From 19 -- I guess it would be 1988  
11 until 2006, 2007.

12 Q. Okay.

13 And was your professorship at UCLA  
14 in conjunction with employment at the VA hospital  
15 in Los Angeles?

16 A. No, it was dependent upon it. UCLA and  
17 the VA are basically across the 405 Freeway from  
18 one another, and my site of my clinical work, my  
19 research interest, my teaching, took place at the  
20 VA, and that's where my paycheck came from, but I  
21 had the academic appointment at UCLA, and I  
22 taught medical students and indeed undergraduate  
23 students at the university. So it was a -- a  
24 shared interrelationship, but it was completely  
25 dependent upon my employment at the VA.

1 Q. Okay.

2 And am I correct that you left your  
3 position at the VA in late 2006?

4 A. I did. Yes, sir.

5 Q. Okay.

6 And you are now a vice president of  
7 a -- an entity called Exodus; is that correct?

8 A. That's correct, sir.

9 Q. Can you tell the jury what is involved  
10 with that?

11 A. Exodus is a -- an entity, a business  
12 that has six separate sites, five of which are in  
13 Los Angeles County in California and one of which  
14 has just now opened up in North County San Diego,  
15 which is just south of -- south of Los Angeles.  
16 And it is largely taking care of county-type  
17 patients, so seriously, chronically mentally ill,  
18 the exact kind of patients I've spent my career  
19 with.

20 And it is -- my job is -- I'm vice  
21 president actually in charge of continuing  
22 medical education and research, but the vast  
23 majority of my work just continues to be the --  
24 the clinical work that's fascinated me my whole  
25 life. It's -- though I never believed that I

1 would ever say this, but I actually don't miss my  
2 patients at the VA. I'm very, very much enjoying  
3 my new position.

4 Q. Very good. I think you told me that you  
5 spend about three-fourths of your time doing  
6 clinical care and the other quarter of the time  
7 is about teaching; is that correct?

8 A. Teaching and writing and research, yeah.  
9 It's probably closer to 80 percent, but around  
10 that price category.

11 Q. The jury has heard about what  
12 peer-reviewed medical journals are. Have you  
13 served as an editorial reviewer for any  
14 peer-reviewed medical journals?

15 A. Yes, many.

16 Q. How many, roughly?

17 A. I'm an ad hoc reviewer on the -- the  
18 journals, which means they call me when they --  
19 they get an article that has my expertise in it,  
20 but I would say over the course of the years two  
21 dozen.

22 Q. Okay.

23 And have you yourself published any  
24 articles in the peer-reviewed medical journal?

25 A. Oh, it's one of the obligatory aspects

1 about being in academia. Publish or perish, as  
2 they say.

3 Q. And about how many articles have you  
4 published in peer-reviewed journals?

5 A. Oh, probably about 80 articles, 120  
6 abstracts, 25 chapters.

7 Q. Okay.

8 And how many of the articles that  
9 you've published have dealt with schizophrenia or  
10 the properties of drugs used to treat  
11 schizophrenia?

12 A. Effectively all of them.

13 Q. Okay.

14 And how many of your published  
15 medical articles studied the effects of Zyprexa?

16 A. Toxic efficacy? Both? Either?

17 Q. Either way.

18 A. Well, counting the abstracts, probably a  
19 dozen and a half. Something along those lines  
20 Pure articles, probably half a dozen.

21 Q. Okay.

22 And did any of those articles deal  
23 with the metabolic properties or metabolic  
24 effects of -- of Zyprexa, with respect to blood  
25 glucose, lipids, weight gain, that sort of thing?

1 A. I believe that all of them did.

2 Q. Okay.

3 And did any of your medical  
4 articles regarding Zyprexa -- strike that.

5 Those articles that you did that  
6 did address the metabolic issues, were they  
7 published in peer-reviewed journals?

8 A. Yes, sir.

9 Q. When did you publish your first article  
10 about whether or not Zyprexa is linked with  
11 weight gain and hyperglycemia or diabetes?

12 A. Well, the first abstract was -- was  
13 1996. I think the first article came out in  
14 1998.

15 Q. And was that the first article ever to  
16 link Zyprexa and diabetes?

17 MR. LEHNER: Objection. This is  
18 going beyond, I think, his qualifications here.  
19 This is getting into the substantive testimony.

20 MR. SUGGS: I'm just talking about  
21 the timeline of his activity. I can -- I'll  
22 withdraw the question.

23 THE COURT: I'll allow it.

24 Before you do that, Doctor, you've  
25 used the term abstracts as opposed to articles.

1 THE WITNESS: Correct.

2 THE COURT: Could you let us know  
3 what the differences are?

4 THE WITNESS: Sure. When you go  
5 to, say, a scientific conference, the APA or some  
6 meeting of nerds like myself, you have to submit  
7 a condensed description of the project that  
8 you're going to present, either verbally or in  
9 what we call poster fashion. And that abstract  
10 is -- is literally a paragraph or two long, and  
11 as I say, summarizes in formalized fashion  
12 exactly what was done in the little project that  
13 you're going to -- that I'm going to present.

14 Those abstracts are then published;  
15 just the abstracts, not the full article, not the  
16 full description, but just the abstracts are  
17 published in like the proceedings of that  
18 particular conference. And sometimes a full  
19 paper is written as a consequence of that  
20 abstract. Sometimes you never get around to it.  
21 Sometimes it -- it just falls apart -- your  
22 findings fall apart down the road. So abstracts  
23 usually antedate a formal full publication, but  
24 both are published, just different sizes,  
25 different formats.

1 Q. (BY MR. SUGGS) Besides your own  
2 articles, are there other peer-reviewed  
3 scientific articles addressing the issue of  
4 whether or not Zyprexa and other atypical  
5 antipsychotic drugs are associated with an  
6 increased risk of diabetes?

7 A. Oh, literally hundreds.

8 Q. And are you familiar with that  
9 literature?

10 A. I'm -- yes, quite.

11 Q. Okay.

12 Did you review that literature in  
13 preparation for your appearance here as an expert  
14 witness?

15 A. Not in its absolute entirety, again,  
16 but, yes, I did go over it.

17 Q. And have you reviewed that literature as  
18 it came out, as it was published?

19 A. Yes. I mean, it's -- it's something  
20 that fascinates me; it's of interest to me. It's  
21 ongoing upkeep of my knowledge in that situation,  
22 yes.

23 Q. Okay.

24 And the jury has heard some  
25 testimony about something referred to as a

1 consensus statement, and a consensus conference  
2 that was convened in November of 2003.

3 Were you a presenter at that  
4 conference?

5 A. I was, yes, sir.

6 Q. And were you invited to speak as a  
7 presenter at that conference?

8 A. I was, yes, sir.

9 Q. And were you invited to speak or be a  
10 presenter because of your expertise in the area?

11 A. Yes. Absolutely.

12 Q. Okay.

13 And I believe you gave  
14 presentations regarding the blood monitoring  
15 protocol and also in the area of lipids; is that  
16 correct?

17 A. That's correct. Yes, sir.

18 Q. Now, in addition to reviewing the  
19 published medical articles and being familiar  
20 with that literature, in any event, as a result  
21 of serving as an expert witness in this case,  
22 have you had the opportunity to review internal  
23 Lilly company documents?

24 A. Yes, sir.

25 Q. And attorneys gave you those documents,

1 correct?

2 A. They did. Yes, sir.

3 Q. And you would have had no other way of  
4 obtaining access to those documents but for your  
5 role as an expert witness in this litigation; is  
6 that correct?

7 A. I presume the answer -- the answer is  
8 no. I never have tried to get access to them,  
9 but I wouldn't offhand have any idea how to go  
10 about it.

11 Q. Okay.

12 Do you recall that the documents  
13 you reviewed were stamped with a confidentiality  
14 stamp?

15 A. Over and over again.

16 Q. Okay.

17 The jury has heard about the  
18 testing that drugs undergo before they're  
19 released on the market here in the U.S., and the  
20 jury has also heard testimony about  
21 first-generation antipsychotics and  
22 second-generation antipsychotics. Behind you is  
23 a list of second-generation antipsychotic drugs.

24 Were you personally involved as a  
25 clinical investigator in the premarket clinical

1 testing of any of those second-generation  
2 antipsychotics on behalf of the drug companies  
3 that were developing them?

4 A. Yes, sir.

5 Q. And which, if any, were you a clinical  
6 investigator on?

7 A. All except for quetiapine.

8 Q. And have you prescribed both first- and  
9 second-generation antipsychotic drugs to your  
10 patients?

11 A. Tens of thousands of times.

12 Q. Are there any first- or  
13 second-generation antipsychotic drugs here in the  
14 U.S. that you have not prescribed to your  
15 patients at one time or another?

16 A. Absolutely not.

17 Q. Okay.

18 In addition, have you also  
19 prescribed other first- or second-generation  
20 antipsychotics that are available in other  
21 countries but are not available here?

22 A. In desperate circumstances, yes, I've  
23 obtained medications from overseas for my  
24 patients.

25 Q. And are you knowledgeable regarding the

1 risks and benefits of first- and  
2 second-generation antipsychotic drugs?

3 A. I certainly like to think so.

4 Q. And are you familiar with the labeling  
5 of those drugs?

6 A. Yes, sir.

7 Q. And have you reviewed, in particular,  
8 for purposes of testifying in this litigation the  
9 labeling of Zyprexa from 1996 to the present?

10 A. I have.

11 Q. Okay.

12 How many --

13 MR. LEHNER: Your Honor, may we  
14 approach for a minute?

15 THE COURT: You may.  
16 (Bench discussion.)

17 MR. LEHNER: It's the same issue  
18 that we had previously that he gave his  
19 deposition on May 1, 2007. He --

20 MR. SUGGS: Your Honor, he's not  
21 going to testify about the 2007 label. He just  
22 happens to be a practicing physician and --

23 THE COURT: Just so that we're  
24 clear, I assumed that too.

25 (End bench discussion.)

1 Q (BY MR. SUGGS) Okay. I believe that  
2 you testified that you have reviewed the Zyprexa  
3 labeling from 1996 to the present?

4 A. Yes, sir, I did.

5 Q. Okay.

6 And how many premarket clinical  
7 studies involving Zyprexa were you engaged in?

8 A. Olanzapine, I think we did -- we did one  
9 fairly large premarketing study comparing  
10 10 milligrams of olanzapine to 1 milligram  
11 olanzapine in a blinded fashion.

12 Q. And was that study conducted on behalf  
13 of Lilly or for Lilly before Zyprexa went on the  
14 market?

15 A. Yes, sir. Before -- before a compound  
16 is available on market, even clinical  
17 investigators, researchers like myself, are  
18 dependent upon drug companies to provide those  
19 medications, because they're simply not  
20 available. They're proprietary.

21 Q. Okay.

22 And how much did Lilly pay your  
23 research facility to conduct those scientific  
24 studies?

25 A. I don't recall exactly, but

1 approximately \$150,000.

2 Q. Okay.

3 And did you personally profit from  
4 that money, or does it go to the -- to the  
5 university as --

6 A. No. The university locks you up for  
7 doing something like that.

8 Q. Okay.

9 A. No, you -- very much forbidden, at  
10 least, in the place that I was working for that  
11 to occur. The money goes to a research institute  
12 and is very carefully monitored and has to  
13 specifically go for specific things, and a pile  
14 of ponderous paperwork that you have to follow.  
15 Too many regulations for me to even recount.

16 Q. Okay.

17 And during your involvement in that  
18 premarket clinical study, did you have  
19 discussions with in-house Lilly physicians  
20 regarding the data from Lilly's clinical studies  
21 of Zyprexa?

22 A. Oh, absolutely. One of my -- the  
23 favorite aspects of my career at that point was  
24 actually to interact with industry prior to a  
25 drug reaching market. It's very exciting; it's

1 very interesting. You're learning things that  
2 nobody else in the world has ever learned before.  
3 You're discovering things, and it's really what I  
4 like to do. Once -- once things are known I get  
5 bored and I want to leave the room.

6 Q. And the jury has heard testimony from  
7 Dr. Charles Beasley by way of videotape.

8 Was he one of the individuals that  
9 you had discussions with?

10 A. Yes, I worked with Charles dating back  
11 to probably 1993.

12 Q. Okay.

13 And the jury is going to hear  
14 videotaped testimony from Dr. Gary Tollefson  
15 later this afternoon or perhaps a little bit  
16 later. Was he another one of the individuals  
17 that -- at Lilly that you spoke with regarding  
18 Zyprexa before it went on the market?

19 A. Yes. I don't -- I think I first had  
20 interactions with Dr. Tollefson in -- it was  
21 regarding actually Prozac, and that was in 1990.

22 Q. Okay.

23 And was Dr. Winston Satterlee,  
24 another Lilly in-house physician that you had  
25 discussions with about Zyprexa before it went on

1 it was in -- in large part of my design, so I  
2 would go hat in hand to ask for research support  
3 from Lilly to study their compound in a certain  
4 way in my clinical population. And had many  
5 hundreds of discussions with them trying to --  
6 trying to fine-tune exactly what -- what we could  
7 both agree to. Those are -- were very, very,  
8 very lengthy discussions.

9 Q. And did Lilly pay your research facility  
10 for conducting those studies?

11 A. Yes, sir.

12 Q. And did you also have any consulting  
13 relationships with Lilly regarding Zyprexa?

14 A. Both with Zyprexa and with fluoxetine.

15 Q. Okay.

16 With respect to Zyprexa, what did  
17 your consulting for Lilly involve?

18 A. Oh, in general, the consulting prior to  
19 release would be get together the clinical  
20 investigators at a meeting or two and we would  
21 discuss the results, give the feedback to the --  
22 to the scientist sorts and they would  
23 occasionally gather usually as a satellite to  
24 some meeting that we were already holding, some  
25 national meeting of one sort or another, and I

1 the market?

2 A. Yes. Winston was one of my favorite  
3 people at Lilly.

4 Q. Okay.

5 And did you also have discussions  
6 with nonphysicians, but people in the marketing  
7 group at Lilly before Zyprexa went on the market?

8 A. No. No.

9 Well, just before it goes on the  
10 market, but I have no knowledge of who's going to  
11 be in marketing prior to the drug being marketed.  
12 The team tends to change dramatically, at least  
13 in general, on average, when a drug goes from the  
14 scientist sorts to the marketing people, and  
15 it -- the game, if you will -- I don't mean to  
16 speak pejoratively, but the stuff that happens is  
17 not as interesting to me, and I tend to not have  
18 as much to do with the marketing people.

19 Q. Okay.

20 Did you continue to do clinical  
21 studies on Zyprexa on behalf of Lilly after  
22 Zyprexa went on the market in October of 1996?

23 A. Well, the answer is sort of yes and sort  
24 of no. I continued to do research on olanzapine,  
25 really, continuously till about 2005 or so, but

1 would be reimbursed to a certain degree for that  
2 participation.

3 Q. Okay.

4 And you also mentioned that you  
5 were a consultant for Lilly in connection with  
6 fluoxetine, and the trade name for that is  
7 Prozac; is that correct?

8 A. Yes, sir.

9 Q. And what were your consulting duties  
10 with Lilly about with respect to Prozac?

11 A. Well, in 19 -- 1989 there was a -- an  
12 issue as to whether or not Prozac led to the  
13 development of suicidal ideation. I was  
14 extremely fascinated by this report, and  
15 elaborated a case series of six patients that I  
16 published in the Archives of General Psychiatry  
17 what I thought explaining how this could actually  
18 occur, and I thought it was a recognizable toxic  
19 consequence, understandable, treatable  
20 consequence of it.

21 And as a result of that small  
22 letter to the editor, it came to the attention of  
23 legal's Lilly team that -- Lilly's legal team --  
24 sorry, excuse me -- and I worked for years with  
25 them on cases across the world. I mean, it was

1 unbelievably interesting and fascinating.

2 Perhaps north of a hundred cases.

3 Q. Okay.

4 And I presume you were paid for  
5 your time consulting for Lilly on those cases?

6 A. As far as I know, they were quite good  
7 at paying their bills.

8 Q. Okay.

9 MR. SUGGS: Your Honor, the State  
10 of Alaska tenders Dr. Wirshing as an expert in  
11 the fields of psychiatry in general, in  
12 particular with respect to the treatment of  
13 schizophrenia, bipolar disorder and geriatric  
14 psychiatry. In addition, we tender him as an  
15 expert in the risks and benefits of both  
16 first-generation and second-generation  
17 antipsychotic drugs and the labeling of those  
18 drugs.

19 We also tender him as a -- an  
20 expert regarding the relationship between Zyprexa  
21 and weight gain, hyperglycemia, diabetes and  
22 hyperlipidemia, and also as an expert with  
23 respect to the issue of whether Lilly adequately  
24 warned about the risks of Zyprexa.

25 THE COURT: Do you wish to voir

1 dire?

2 MR. LEHNER: No, we'll save our  
3 questions for cross-examination. Thank you very  
4 much.

5 THE COURT: I will so recognize the  
6 doctor as an expert in the field -- in the areas  
7 that you have just designated.

8 MR. ALLEN: Thank you.

9 THE WITNESS: Thank you, Your  
10 Honor.

11 Q. (BY MR. SUGGS) Dr. Wirshing, in Lilly's  
12 opening statement Ms. Gussack played a video clip  
13 from a deposition you gave, in which you stated  
14 that -- and I think I'm quoting this: The  
15 second-generation antipsychotics are among the  
16 most powerful disease modifiers in all of  
17 medicine and are a godsend to most people. And  
18 she also said that you testified that they could  
19 be the closest thing to magic one might see in  
20 medical practice.

21 Do you recall giving testimony like  
22 that at any time?

23 A. Well, it certainly does sound like my  
24 turn of phrase.

25 Q. Okay.

1 And was that testimony -- did it  
2 arise in a Zyprexa case for the first time, or  
3 did it arise in a case involving a -- another  
4 antipsychotic drug?

5 A. Well, I -- I believe that one was from a  
6 risperidone or Risperdal class-action suit that I  
7 was involved in, so it -- I don't -- it had  
8 nothing to do with olanzapine at all.

9 Q. Okay.

10 And when you were giving that  
11 testimony, the second-generation antipsychotics  
12 are among the most powerful disease modifiers,  
13 were you referring to the class of  
14 second-generation antipsychotics as a whole or  
15 any particular drugs within that class or --

16 A. Well, I mean, at the time, what I was --  
17 what I was -- was thinking of and what was going  
18 on in my head, it was -- was the prototype of the  
19 class, which is the first one up there,  
20 clozapine, which was elaborated in 1959. It is  
21 the -- as I say, the prototypic atypical, and --  
22 and it is -- unequivocally the most toxic and  
23 unequivocally the most powerful of the  
24 antipsychotics. So, that's what was in my mind.

25 Q. Okay.

1 And, sir, despite the fact that  
2 you're here to testify on behalf of the State of  
3 Alaska and against Eli Lilly, you continue to  
4 prescribe Zyprexa for some of your patients even  
5 today, correct?

6 A. Well, I'm in Alaska today and I'm not  
7 allowed to practice medicine in Alaska. But I  
8 left -- when I left home on Monday or left home  
9 on Tuesday -- on Monday, I had prescribed  
10 olanzapine to, I think, two of my patients.

11 Q. Okay.

12 If you're still prescribing Zyprexa  
13 for at least some of your patients, why are you  
14 here testifying against Lilly? What, if  
15 anything, did they do wrong with Zyprexa?

16 A. Well, that's a fair question. I think  
17 the truthful answer is twofold. Firstly, it is  
18 my opinion that Lilly has consciously,  
19 deliberately and continuously denied, obfuscated  
20 or simply given short shrift to the true toxic  
21 profile of olanzapine. But quite honestly, that  
22 is not enough to get me to Alaska and to have  
23 kept me focused on this issue literally for more  
24 than 10 years.

25 The second reason, which is more

1 emotional for me, is that in their defense of  
 2 their compound, Lilly has blamed the patients, at  
 3 least in part, for the toxic consequences that  
 4 are directly due to their drug, and you know,  
 5 this is unconscionable to me.  
 6 Q. When you say that they've blamed the  
 7 patients, how have they done that?  
 8 A. Well, I mean, I -- I -- I recall -- I  
 9 recall the moment it happened. After our --  
 10 after articles first started -- first started to  
 11 come out, my -- my wife at the time, Donna, and I  
 12 were quite close, not just as a married couple,  
 13 but quite close colleagues. And we were  
 14 listening to a presentation from Lilly and they  
 15 highlighted the fact that, quote, "People with  
 16 schizophrenia are known to have an increased risk  
 17 of diabetes."  
 18 I've been studying diabetes -- I  
 19 mean, I'd been studying schizophrenia for 20  
 20 years at that point, and I turned to my wife  
 21 Donna and I said, how come I didn't know that?  
 22 And this was never talked about  
 23 beforehand, and it had -- it got repeated over  
 24 and over and over again, to the point that it  
 25 became almost axiomatic.

1 Schizophrenia is diabetes.  
 2 There's not one shred, not one  
 3 microscopic, nothing, bit of evidence to suggest  
 4 that the illness schizophrenia itself is  
 5 associated with an increased risk of  
 6 endocrinologic disturbance. None, zero. And  
 7 that has been repeated over and over.  
 8 In effect, blaming the patient for  
 9 the condition which the drug caused, and this --  
 10 this is emotionally very upsetting to me.  
 11 Q. Okay.  
 12 Doctor, you've told us your bottom  
 13 line. Now let's start back at the beginning of  
 14 your story with Zyprexa and your involvement with  
 15 Lilly.  
 16 A. Yes, sir.  
 17 Q. Am I correct that your first involvement  
 18 with Lilly and Zyprexa was back during the  
 19 clinical studies that were conducted on the drug  
 20 before it went on the market?  
 21 A. Yes, sir, approximately 1993.  
 22 Q. And as a result of your involvement in  
 23 Zyprexa's clinical study and the data that you  
 24 were collecting, did you have concerns about  
 25 weight gain?

1 A. Yes, sir.  
 2 Q. And did you discuss those concerns with  
 3 people at Lilly?  
 4 A. Of course. Yes, sir.  
 5 Q. Okay.  
 6 MR. SUGGS: Can you pull up  
 7 Exhibit 1586, please, and go to Page 8.  
 8 By the way, this is the -- this is  
 9 a memorandum describing the third United States  
 10 Schizophrenia Advisory Panel meeting in December  
 11 of 1995. It's been previously admitted.  
 12 A. Yeah, this is one of the satellite  
 13 meetings I referenced. This was around the  
 14 American College of Neuropsychopharmacology,  
 15 which is held in Puerto Rico every year at that  
 16 time.  
 17 MR. SUGGS: Can you go to Page 8,  
 18 please.  
 19 THE COURT: Just so that I can be  
 20 clear on the record, I'm not sure whether you  
 21 said 1586 or 1596.  
 22 MR. SUGGS: It's 1586, Your Honor,  
 23 and it has been admitted.  
 24 THE COURT: Looks like -- oh, I  
 25 see. At the bottom there's also a 1596. Okay.

1 Go on.  
 2 MR. SUGGS: Your Honor, that 1596  
 3 is --  
 4 THE COURT: The MDL number. That's  
 5 where my confusion was.  
 6 MR. SUGGS: I've been confused by  
 7 that many times myself.  
 8 Chris, can you pull up the last  
 9 couple lines of the first paragraph.  
 10 Q. (BY MR. SUGGS) The last two sentences  
 11 state in there, Patients who remained on  
 12 olanzapine for 12 months gained an average of  
 13 24 pounds at the end of 12 months.  
 14 Do you see that language, sir?  
 15 A. Yes, sir.  
 16 Q. And at any time in your involvement with  
 17 Lilly's premarket testing of Zyprexa, did  
 18 Dr. Beasley or anyone else inform you that the  
 19 average weight gain on Zyprexa was 24 pounds?  
 20 A. No, sir. I -- I was at the ACNP, but I  
 21 was not part of this advisory panel.  
 22 Q. Okay.  
 23 MR. SUGGS: And, Chris, can you  
 24 pull up AK10008.  
 25 Your Honor, this is the 1998 PDR,

1 which I believe the evidence shows was the first  
2 PDR for Zyprexa, and it has not been previously  
3 admitted. Do you have any objection to admitting  
4 that?

5 It's the 1998 PDR.

6 MR. LEHNER: No, Your Honor.

7 THE COURT: 1008 (sic) may be  
8 admitted.

9 MR. SUGGS: And can you go to, I  
10 believe, Chris, it's Page 3, the page regarding  
11 weight gain in the adverse reactions section.

12 Q. (BY MR. SUGGS) And Doctor, you  
13 have reviewed -- you testified that you've  
14 reviewed the 1996 labeling through 2006; is that  
15 correct?

16 A. More times than I like to remember, yes,  
17 sir.

18 Q. Okay.

19 And if I could direct your  
20 attention to the last sentence in the section --  
21 in the adverse reactions regarding weight gain,  
22 it states, Average weight gain during long-term  
23 therapy was 5.4 kilograms. Do you see that?

24 A. Yes, sir.

25 Q. And if we do the math, am I right that

1 5.4 kilograms works out to about 11.8 pounds?

2 A. That's correct, 2.2046 pounds per  
3 kilogram.

4 Q. Okay.

5 And that's less than half of the  
6 24 pounds weight gain that we saw in the other  
7 document; is that correct?

8 A. Yes, 11.8 is less than half of 24.

9 Q. And throughout the time period from 1996  
10 through 2006, did the Zyprexa labeling state in  
11 the adverse reactions section that the average  
12 weight gain during long-term therapy was  
13 5.4 kilograms?

14 A. Yeah, as far as I know, that particular  
15 sentence never altered a single letter.

16 Q. Did the labeling ever advise physicians  
17 that the average weight gain over the course of a  
18 year was twice that or 24 pounds?

19 A. No, it said precisely what it says here,  
20 5.4 kilograms.

21 Q. And in your opinion, sir, is it a  
22 material fact that the average weight gain with  
23 Zyprexa is 24 pounds over a year's time?

24 A. Again, are we talking about the  
25 average --

1 Q. Yes.

2 A. -- weight gain?

3 Q. Well, let me restate my question.

4 Was it -- in your opinion is it a  
5 material fact that the average weight gain on  
6 Zyprexa over -- for those who use it for a year,  
7 is 24 pounds?

8 A. It has enor -- it has enormous range.

9 The -- the average is at least 24 pounds, but  
10 it -- it varies enormously from individual to  
11 individual. It -- literally from a slight weight  
12 loss to patients gain 125 pounds in the first  
13 year. I mean, it -- it has enormous variance,  
14 but on average, yeah, it's around 25 pounds.

15 Q. And do you believe that practicing  
16 physicians should have been made aware that the  
17 average weight gain over the course of a year on  
18 Zyprexa was 24 pounds?

19 A. Physicians should be aware of whatever  
20 the data is.

21 Q. Okay.

22 A. Absolutely.

23 Q. Now, is there a rule of thumb that  
24 applies to be able to figure out how much weight  
25 gain results in an increased risk of diabetes?

1 A. Yeah. Other things being equal, the  
2 single most powerful and pertinent determinant of  
3 diabetes is excess adipose tissues, excess fat,  
4 certain kind of fat, but excess fat in general.  
5 If you look at large populations, like the  
6 Framingham Heart Study population, for instance,  
7 where you have huge numbers, you can show that a  
8 one-pound change in adiposity, a one-pound change  
9 in fat translates to a 4 percent increased risk  
10 of diabetes in that same population. A  
11 five-pound change in fat translates to a  
12 25 percent increased risk of diabetes.

13 Q. So is it just a straight linear  
14 relationship, then?

15 A. No. No, even those numbers are not  
16 quite linear, but it tends to go up aggressively,  
17 so that people that have more weight have  
18 progressively more risk. It goes up in a  
19 decidedly nonlinear fashion.

20 Q. And if, in fact, the average weight gain  
21 for folks who used Zyprexa for a year was on the  
22 order of 24 -- well, was 24 pounds, as we saw in  
23 Exhibit 1586, what would that translate into in  
24 terms of an increased risk of diabetes?

25 24 pounds in one year.

1 A. There's -- there's a problem in that  
2 24 pounds is such an unusual weight change in a  
3 single year that there aren't good statistics for  
4 large numbers of people because folks don't do  
5 that very often. However, extrapolating from  
6 what we do know about weights from populations, I  
7 would say -- it's different for males, different  
8 for females, sort of an averaging -- sort of an  
9 average male/female thing, if you will. It would  
10 be three to four and a half, so 300 to  
11 450 percent.

12 Q. Okay.

13 A. Approximately. Higher for the -- higher  
14 for women, lower for men, but kind of in that  
15 average.

16 Q. Okay.

17 So an increased risk of diabetes  
18 with Zyprexa for those who use it for a year on  
19 the order of three to four times higher?

20 A. Correct, due only to the increase in  
21 adiposity.

22 Q. And do you believe that physicians  
23 should have been warned about that at the outset  
24 when this drug went on the market?

25 A. Should have been warned about the

1 magnitude or the --

2 Q. Yes.

3 A. Of course. Of course.

4 MR. SUGGS: Chris, can you go back  
5 to Exhibit 1586 and that same page. I believe it  
6 was Page 8.

7 And can you blow up the italicized  
8 paragraph there in the middle.

9 Q (BY MR SUGGS) At this 1995 meeting,  
10 after the advisers were informed of the 24-pound  
11 weight gain in a year, the document states,  
12 quote, "Several advisers commented on the  
13 association of olanzapine with weight gain and  
14 encouraged Lilly to subject the data to a full  
15 analysis. Clinically significant weight gain is  
16 a risk factor for other conditions, such as  
17 increased blood pressure, increased cholesterol,  
18 and type 2 diabetes."

19 Do you see that language, sir?

20 A. Of course.

21 Q. Now, even though you were not aware of  
22 the 24 pounds weight gain, but had seen weight  
23 gain in your own patients that you were involved  
24 in, did you express concerns to Lilly at that  
25 time about increased blood pressure, increased

1 cholesterol and the risk of type 2 diabetes as a  
2 result of the weight gain?

3 A. Yes, but it is simply axiomatic that if  
4 you are going to increase fat to that degree,  
5 even -- even the -- the 5.4-kilogram degree, but  
6 if you're going to increase fat to that degree,  
7 it's simply axiomatic, you will induce severe  
8 problems with lipids, blood pressure and glucose  
9 regulation in a population.

10 Q. Let's talk specifically about who it was  
11 that you told about your concerns with this.

12 A. Okay.

13 Q. Did you talk with Dr. Beasley about  
14 this?

15 A. Yes, sir.

16 Q. Did you talk with Dr. Tollefson about  
17 this?

18 A. Dr. Tollefson?

19 Oh, yes, we did. Yes.

20 Q. How about Dr. Winston Satterlee?

21 A. Yes, Winston Satterlee I had a number of  
22 conversations with.

23 Q. And when would you have had your  
24 conversations with those individuals?

25 A. Oh, that was probably subsequent to the

1 first presentation, so '95ish, early '96.

2 Q. Okay.

3 And when you told them about your  
4 concerns -- by the way, these three people that  
5 we've talked about so far, they were all medical  
6 doctors in-house at Lilly, correct?

7 A. Medical doctors/scientists.

8 Q. Okay.

9 A. Yeah.

10 Q. And what was their reaction when you  
11 told them about your concerns with diabetes being  
12 a risk with the use of Zyprexa?

13 A. They were receptive, interested, polite,  
14 collegial. I mean -- they were the same as  
15 bringing any other of our observations. We had a  
16 number of different things that we talked to them  
17 about. This was but one of them.

18 We talked about neurocognitive  
19 measures that we had noticed. We -- we talked  
20 about subjective tolerability. We talked about  
21 sexual functioning on the drug. I mean, we had a  
22 lot of good and interesting and some -- some bad  
23 and interesting findings with respect to  
24 olanzapine.

25 Q. Okay.

1 I believe you testified earlier  
2 that you also had a discussion with an individual  
3 named J. R. Richards shortly before Zyprexa went  
4 on the market?

5 A. Yes. I met Mr. Richards -- he was  
6 marketing, so he was not a part of the scientific  
7 folks that we had been working with prior to  
8 that, and had met Mr. Richards, took me to  
9 this -- my oldest daughter, my wife and I went to  
10 a prelaunch celebratory meeting at one of these  
11 really cool Italian restaurants in New York  
12 City -- it was a magnificent meal -- and had a  
13 lengthy discussion with him about two particular  
14 issues that I was concerned about.

15 Q. And did you tell him at that meeting --  
16 well, at that dinner that you were concerned that  
17 Zyprexa was going to have potential problems with  
18 diabetes?

19 A. I -- I told him about two things at that  
20 dinner. The two items that I was concerned with  
21 was that, one, the clinical studies that had been  
22 done focused on a primary drug dose of  
23 10 milligrams, and that it was my belief the drug  
24 had elevated efficacy above that dose and they  
25 were going to screw it up and tell people to dose

1 the drug improperly, dose too low. That's what I  
2 was worried about. That was my first concern.

3 And my second concern was the  
4 weight gain and the attendant problems, diabetes  
5 included, associated with the drug. By '96 we  
6 had had -- we had begun instituting a whole bunch  
7 of -- I designed it, but a whole bunch of  
8 strategies to try and control the weight gain,  
9 and that was what I was mostly interested in.

10 Q. What was the reaction of the marketing  
11 person when you told him about the risk of  
12 diabetes with Zyprexa?

13 A. Marketing --

14 MR. LEHNER: Objection, Your Honor;  
15 mischaracterizes the testimony. He didn't say  
16 that.

17 Q. (BY MR. SUGGS) Let me restate the  
18 question.

19 Did you express to Mr. J. R.  
20 Richards, a marketing person at Lilly at that  
21 dinner in New York, concerns that Zyprexa could  
22 have problems with diabetes?

23 A. Yes, and I specifically presented -- I  
24 think Latrell was her name -- was a nurse  
25 practitioner from the south, I believe -- a plan

1 to try and help people with the weight gain that  
2 occurred. I mean, this was a known, recognized  
3 fact of olanzapine, and what I was interested in  
4 was setting up a strategy to deal with it.

5 Q. And what was the reaction from  
6 Mr. Richards in marketing?

7 A. Dismissive.

8 Q. Pardon?

9 A. Dismissive.

10 Q. Okay.

11 A. Marketing people, in general, are  
12 dismissive of people like me. We're scientific  
13 nerds and, you know, go away sort of thing, but  
14 it's a -- it's a common situation. As I say, I  
15 tend to lose interest in him and I'm probably  
16 just as dismissive of him as he was of me.

17 Q. After you told various people at Lilly  
18 about your concerns about potential safety  
19 problems with Zyprexa, did anybody at Lilly show  
20 you any computer analyses indicating that  
21 Zyprexa, in fact, had a statistically significant  
22 increased incidence of hyperglycemia or  
23 cholesterol as compared to haloperidol?

24 A. No. Quite the contrary. I recall that  
25 after this -- not the first article we've talked

1 about, but I believe it was the second article,  
2 they were quite adamant that -- that our drug may  
3 cause a little problem with weight gain, but it  
4 doesn't cause diabetes.

5 Q. Have you seen documents for the first  
6 time in this litigation reflecting computer  
7 analyses of data from the HGAJ study and the  
8 relationship between Zyprexa and hyperglycemia?

9 A. The HGAJ was the 1,996 patient study?

10 Q. Yes.

11 A. Yes. Yes, sir.

12 MR. SUGGS: Can you pull up  
13 Exhibit 1605, please. And 1605 has already been  
14 admitted into evidence, Your Honor.

15 THE COURT: Thank you.

16 Q. (BY MR. SUGGS) And, Dr. Wirshing, this  
17 document is described as a Table of  
18 Treatment-Emergent Abnormal, High or Low  
19 Laboratory Values at Any Time, from the HGAJ  
20 Acute Phase.

21 Are you familiar with a study known  
22 as the HGAJ study?

23 A. Yes, sir. It was -- it's one of the  
24 cool studies in the profession. It's a study  
25 involving literally the largest number of

1 psychotic patients ever enrolled in a single  
2 study; 1,996. I believe they were shooting for  
3 2,000, but they got 1,996; 2 to 1 randomization.  
4 Two patients put into olanzapine, one patient put  
5 into the comparator haloperidol; 5 to  
6 20 milligrams of olanzapine and the equivalent  
7 number in the haloperidol. The acute phase  
8 lasted for eight weeks, but then there was an  
9 open phase which lasted a total of a year, and  
10 that's where that 24 pounds, for instance, came  
11 from.

12 Q. And this particular computer analysis is  
13 dated June 19, 1995. Do you see that up in the  
14 upper right-hand corner of the box?

15 A. Yes, sir, I do.

16 Q. Okay.

17 And would this have been at or  
18 around the time that you had expressed concerns  
19 to Lilly about weight gain and potential risks of  
20 hyperglycemia?

21 A. Yeah, this -- essentially coincident.

22 MR. SUGGS: Okay.

23 And could you go to Page 11, Chris.

24 And can you pull up the Glucose Nonfasting Chart  
25 there, or that portion of the chart.

1 Q. (BY MR. SUGGS) And, Dr. Wirshing, can  
2 you tell us what this chart shows in connection  
3 with the -- the high line there?

4 A. Yeah. Well, it -- it shows that of a  
5 very large number of samples, 1,284 collected,  
6 that 34 met their criteria for, quote, unquote,  
7 high, which is two standard deviations above, and  
8 that translated at 2.6 in the olanzapine group.  
9 And of the 625 samples in the haloperidol group,  
10 7, or 1.1 percent in the haloperidol group also  
11 met that criteria, so two and a half times as  
12 much in the olanzapine group.

13 Q. And was that finding statistically  
14 significant?

15 A. Yeah, at the -- at the .03 level, yes,  
16 sir.

17 Q. Okay.

18 In your opinion is that a red flag  
19 for diabetes?

20 A. It -- it certainly is -- is suggestive  
21 of it. I mean, it's -- this was only an  
22 eight-week study, and to actually have  
23 hyperglycemia emerge in that period of time is --  
24 that's interesting. That's difficult to explain,  
25 quite honestly.

1 Q. Can you also pull up --

2 Well, pardon me. Back when you  
3 expressed your concerns to Lilly about a possible  
4 problem with diabetes in 1995, did they show you  
5 this data?

6 A. No, sir. As we talked about, I had not  
7 seen this data until the preparation for coming  
8 up here to Alaska.

9 Q. Okay.

10 MR. SUGGS: Can you go to the  
11 following page, Chris, and pull up the data  
12 regarding cholesterol there.

13 Q. (BY MR. SUGGS) And can you tell us,  
14 Doctor, what does that show with respect to high  
15 cholesterol?

16 A. This -- so this is, again, taking total  
17 cholesterol, so the total lipid cholesterol pool  
18 in your blood, and it shows that 5 of 622  
19 patients in haloperidol or 0.8 percent, and 29 of  
20 1,272, or 2.3 percent. Again, about a threefold  
21 difference, significant .02 level.

22 Q. And did they show you this data back in  
23 1995?

24 A. No, they did not, though this is a  
25 little less difficult to explain and a little

1 more expected, given what I know.

2 Q. What is the relationship between  
3 hyperglycemia, weight gain and high cholesterol,  
4 if there is one?

5 A. Oh, yes, there is. As our -- in gen- --  
6 is not for an individual, but for the prototypic  
7 human in general, as you increase adiposity and  
8 you increase fat, particularly certain kinds of  
9 fat, what the -- we call omental adiposity, so  
10 the fat around your midsection, that is a -- the  
11 researchers call it brown fat.

12 It's a particularly bad kind of  
13 fat, and that is associated both with  
14 endocrinologic disturbance through insulin  
15 resistance. The insulin just doesn't work as  
16 well as it used to. The pancreas has to work  
17 harder, and it's just harder to keep your sugars  
18 down and they tend to drift up.

19 Though the fat causes a -- that  
20 particular fat causes a toxicity in certain  
21 individuals, again, not in everybody. If you're  
22 the type of person that carries your fat  
23 elsewhere, doesn't do anything but cause you to  
24 have joint problems, but it does not impact your  
25 endocrinologic situation.

1 In terms of circulating lipids,  
2 when you expand the fat pools in your -- in your  
3 body so that the cholesterols or the so-called  
4 phospholipids, they're the way that we transport  
5 fats in our blood. Imagine -- our blood is like  
6 seawater, and when you put oil on seawater, it  
7 floats and you can't transport it anywhere.  
8 It -- you have to -- to make it miscible with  
9 water, you have to do some tricky things to it  
10 and that involves cholesterol.

11 So the transport of lipids to all  
12 the various tissues, to and from all the various  
13 tissues in the body requires cholesterol. When  
14 you expand those fat stores, you got more stuff  
15 on your freeway, so your cholesterol goes up.  
16 It's a direct relationship between increasing  
17 adiposity and total cholesterol. You lose  
18 weight, your cholesterol goes down; you gain  
19 weight, your cholesterol goes up. You gain fat,  
20 not just weight. You gain fat.

21 Q. The jury's seen this section of the CFR  
22 a number of times, which says that -- under this  
23 section heading, the labeling shall describe  
24 serious adverse reactions and potential safety  
25 hazards, limitations in use imposed by them, and

1 steps that should be taken if they occur. The  
2 labeling shall be revised to include a warning as  
3 soon as there is reasonable evidence of an  
4 association of a serious hazard with a drug. A  
5 causal relationship need not have been proved.

6 Do you see that language, sir?

7 A. I'm quite familiar with it. Yes, sir.

8 Q. And you are familiar with that  
9 requirement, right?

10 A. Of course.

11 Q. Well, sir, if Lilly was aware back in  
12 1995 that the average weight gain of patients on  
13 Zyprexa who used it for a year was 24 pounds, and  
14 they were aware that there was a statistically  
15 significant higher incidence of high blood  
16 glucose even after as little as eight weeks, as  
17 reflected in Exhibit 1605, and they were also  
18 aware that there was a statistically significant  
19 higher incidence of high cholesterol, even after  
20 as little as eight weeks, is that reasonable  
21 evidence of an association, in your mind, that  
22 would trigger the duty to warn?

23 A. I would say that the mere presence of  
24 weight gain would cause me to answer the question  
25 in the affirmative. I'd have to say, absolutely.

1 Increasing weight to that degree, it is simply  
2 axiomatic that you will cause diabetes and you  
3 will cause cholesterol dysregulation. That is an  
4 absolute incontrovertible medical fact.

5 Q. But, Doctor --

6 MR. SUGGS: Chris, can you pull up  
7 the labeling that we were looking at, again,  
8 before. And go to the adverse reactions section.

9 Q. (BY MR. SUGGS) And, Dr. Wirshing,  
10 doesn't the -- the labeling list diabetes in the  
11 adverse reactions section?

12 A. Absolutely. It has since the very  
13 beginning.

14 MR. SUGGS: Chris, can you pull up  
15 that part of the labeling. Do you know where it  
16 is?

17 I think it's on Page 4, in the  
18 right-hand column. I believe so, yes.

19 Q. (BY MR. SUGGS) Are you able to read  
20 that, Dr. Wirshing?

21 Can you blow it up some more,  
22 Chris?

23 A. Endocrine system. Infrequent diabetes  
24 mellitus and goiter, rare. Diabetic acidosis --  
25 I assume that's ketoacidosis. I can't read that.

1 And lymphatic system. I can't quite figure out  
2 what that is. Infrequent cyanosis, leukocytosis,  
3 lymphadenopathy and thrombocytopenia.

4 Q. Dr. Wirshing, doesn't that listing of  
5 diabetes back in the adverse reactions section --  
6 isn't that good enough?

7 A. No, the adverse reactions section is not  
8 the warnings section.

9 Q. No. We're talking -- this is in the  
10 adverse reactions section.

11 A. No -- yeah, this -- no, this -- the  
12 adverse reactions section is -- is very different  
13 and very distinct from the warnings section. The  
14 vast majority of that which is in the adverse  
15 experience section -- adverse reactions section  
16 has nothing to do with the compound.

17 It's -- when you do these studies,  
18 remember, these -- these studies last from eight  
19 weeks to a year, and you're the clinical  
20 investigator. You're responsible for -- you're  
21 the doctor. You're responsible for the patient  
22 for that period of time. Anything that happens  
23 to that patient while they're in your care, that  
24 gets listed as an adverse experience. You get a  
25 cold, that gets in. You get the flu, you -- you

1 break your arm, you get divorced, whatever the  
2 heck it is, that gets put down in the adverse  
3 reactions section. And so you have no idea  
4 whether it has anything to do with the drug.  
5 Indeed, you don't know whether your patient was  
6 on a placebo or the drug or a comparator. You  
7 just simply list it in the adverse experience  
8 section.

9 That then gets translated to this  
10 ponderous list, and this is useful for clinicians  
11 and it should be here. It's required to be here,  
12 because if something happens to your patient on  
13 a -- on a drug and you go, my, I wonder if this  
14 has anything to do with the drug, you can at  
15 least look it up here in the adverse experience  
16 and say, has anybody else ever seen that?

17 And it's helpful sometimes,  
18 confirmatory to see that, oh, yes, back pain has  
19 been reported with olanzapine. Oh, yes, edema of  
20 the lower -- swelling -- edema of the lower  
21 extremities has been reported. But it's -- it's  
22 not a -- you wouldn't warn people about this  
23 because this -- this is everything and its  
24 grandmother here.

25 Q. Well, is it your opinion that the risk

1 of weight gain, hyperglycemia and diabetes should  
2 have been in the warning section of the labeling  
3 as early as '96?

4 A. Absolutely. I mean, it is -- it is my  
5 belief that the single most prominent clinical  
6 consequence of taking olanzapine by far and away,  
7 head and shoulders, is the fact that it causes  
8 weight gain. I mean, that's the most interesting  
9 thing from a scientist's perspective.

10 How it does that, why it does that,  
11 I mean, it is -- it is startling, but it is also  
12 the most clinically pertinent toxicity of the  
13 molecule by far.

14 Q. Doctor, did you and your colleagues  
15 publish an article in 1998 which discussed a link  
16 between diabetes and Zyprexa?

17 A. I think so, yes.

18 MR. SUGGS: Chris, can you pull up  
19 Exhibit 10 -- pardon me -- AK10141.

20 For the record, Your Honor, this is  
21 an article entitled Novel Antipsychotics and New  
22 Onset Diabetes, published by Donna A. Wirshing,  
23 Brad Spellberg, Stephen Erhart, Stephen Marder  
24 and William Wirshing, in the Society of  
25 Biological Psychiatry in 1998.

1 And, Your Honor, we would move for  
2 the admission of AK10141 for the purposes of  
3 notice.

4 MR. LEHNER: Your Honor, consistent  
5 with the Alaska rule on scientific theses and  
6 medical articles, this could be admitted as an  
7 exhibit.

8 THE COURT: I didn't hear you, Mr.  
9 Lehner.

10 MR. LEHNER: I think we discussed  
11 earlier, Your Honor, about admitting scientific  
12 articles. This is one of those, and we would  
13 admit it for that purpose. Notice to the --

14 THE COURT: Yeah. Ladies and  
15 gentlemen, this article is being admitted to --  
16 for the purpose of showing that this was being  
17 discussed in the literature and there was notice  
18 to people of the contents of this document.

19 Q. (BY MR. SUGGS) And, Dr. Wirshing, is  
20 the Journal of Biological Psychiatry, is -- is  
21 that a peer-reviewed journal?

22 A. Yes, sir.

23 Q. And it notes that the article was  
24 received in September of 1997. That would have  
25 been less than an year after Zyprexa had been on

1 the market; is that correct?

2 A. That's correct.

3 Q. And your article was actually published  
4 a little bit later, in 1998; is that correct?

5 A. Also correct, yes, sir.

6 Q. And the article describes six patients  
7 who developed diabetes after they were on either  
8 clozapine or Zyprexa. I believe there were four  
9 patients on clozapine and two on Zyprexa; is that  
10 right?

11 A. As I recall, yes, sir.

12 Q. And did you regard this as additional  
13 evidence of an association between Zyprexa and  
14 the risk of diabetes?

15 A. Yeah, that's precisely why we published  
16 the case series.

17 Q. Okay.

18 Was it your opinion at the time you  
19 published your article in 1998 that the  
20 patient -- that these particular patients' use of  
21 either clozapine or Zyprexa was a substantial  
22 contributing factor in the development of their  
23 diabetes?

24 A. For these six patients?

25 Q. Yes.

1 A. Yes.

2 Q. Okay.

3 And why was that?

4 A. Well, somewhat of a tortured answer, and  
5 I will try and -- try to get it across. In --  
6 in -- as a scientist, I require and I teach my  
7 students -- I require only believe other people's  
8 double-blind placebo and active comparison trials  
9 of sufficient duration and adequate power. In  
10 other words, don't trust anybody else unless you  
11 did a really good experiment.

12 Unfortunately, I'm also a  
13 clinician, and as a clinician, I'm -- I'm a  
14 person and I'm a human being, and I am compelled  
15 by the end of one experiment that I just did this  
16 morning with my patient; I gave him this drug and  
17 this is the stuff I saw. And those are  
18 overwhelming.

19 So as a clinician, yes, it was my  
20 conclusion, absolutely, these drugs were the  
21 cause of this condition, and it was my thought  
22 that it was because it caused weight gain.

23 As a scientist, I have to admit  
24 that I can't -- I can't know that, but as a -- as  
25 a clinician, I'd bet the farm on it.

1 Q. By this point in time, back in 1998, how  
2 many publications had you had in the field of  
3 psychiatry? Just ballpark.

4 A. Oh, I -- 80.

5 Q. Pardon?

6 A. 80.

7 Q. 80?

8 Would it be fair to say that you  
9 were a well-known psychiatric researcher at that  
10 point in time, 1998? Don't be modest.

11 A. Yeah, I had -- I'd irritated a  
12 sufficient number of people that folks knew who I  
13 was, yeah.

14 Q. What was the -- why did you publish this  
15 article?

16 A. Well, also a good question. My wife at  
17 the time, Donna, God bless her fuzzy little  
18 heart, is -- really likes to be first, and this  
19 was -- this was one of her pet projects. She's  
20 had a -- she's had an abiding and longstanding  
21 interest in -- in basically metabolism, dating  
22 back to her -- her college years. She was an  
23 Olympic alternate in the 1980 national fencing  
24 team, and also a runner, and she became  
25 interested in metabolism back then. So it was

1 really her focus on weight that prompted all this  
2 interest.

3 And when we saw this diabetes, she  
4 was very -- very keen to publish it, to let other  
5 people know. But in large part to display -- to  
6 demonstrate that weight gain is a substantial  
7 difficulty and you have to pay attention to it.

8 Q. And was this the first published medical  
9 article in the world linking Zyprexa with weight  
10 gain?

11 A. Yes, sir, it was.

12 Q. Okay.

13 And what was the reaction after you  
14 published this article?

15 A. It definitely got attention. This is --  
16 this is the -- the lowest quality, if you will,  
17 in the -- in my profession, in academics, this is  
18 the lowest quality of publication. This is the  
19 stuff we saw. What do you guys think? No  
20 control, no -- no research. Case series is what  
21 it's called. So people take that for what it's  
22 worth. But this -- this really attracted an  
23 awful lot of attention.

24 There was lots of focus from the  
25 company; lots of focus from other people that

1 began reporting similar things. There was an  
2 increasing amount of publication and interest in  
3 this specific -- specific arena, which culminated  
4 a few years later in the consensus conference  
5 that we've already talked about.

6 Q. Okay.

7 And you said you had focus from  
8 Lilly. Did you have communications with Lilly  
9 after this article was published in 1998?

10 A. Most certainly.

11 Q. Who was your -- who were your first  
12 conversations with?

13 A. Well, at that point, you remember, we  
14 had -- we had changed over from -- from the  
15 premarketing scientist sorts and -- I don't think  
16 in 1998 we were actually participating actively  
17 in any specific protocols, as I recall. So my  
18 communication was with -- mostly with Mel Hamm,  
19 who was our regional district sales  
20 representative, and -- and his boss, a man named  
21 Anderson. I don't recall his first name. But  
22 many meetings about this.

23 Q. And what -- what was their reaction to  
24 your publication of this article linking Zyprexa  
25 with diabetes?

1 A. It was -- it was twofold, and I -- I  
2 recall specifically that at first -- I had a very  
3 good relationship with Mel. At first it was  
4 receptive, interesting. We'll take it back to  
5 the guys in Indianapolis, blah, blah, blah. You  
6 know, it was just collegial.

7 Mel is a -- a very capable man. He  
8 is -- was a retired captain from the U.S. Navy  
9 and was in charge of the worldwide formulary for  
10 the Navy. He was a pharmacist by training. So,  
11 you know, very capable, cool guy, very  
12 interesting personality.

13 On follow-up, after he had come  
14 back from what I presume to be corporate, again,  
15 my presumption, but Mel was adamant -- I mean, in  
16 my face adamant that -- might cause a little  
17 weight gain, does not cause diabetes, and --

18 Q. Fair to say you were --

19 A. I'm at a loss --

20 Q. -- shocked at his reaction?

21 A. I don't -- I don't know how to -- how to  
22 respond to that. I mean, it's -- it's -- it's  
23 tantamount to saying, you know, you could throw a  
24 person down an elevator shaft, but damn it, it's  
25 not going to hurt him when they hit the floor.

1 It just makes no sense. We can't have a rational  
2 conversation if you have that posture. It's just  
3 absolutely counterintuitive medically speaking.

4 Q. Did they show you any -- when Mr. Hamm  
5 came back after -- the second time and had the  
6 adamant reaction to you, did he show you any data  
7 at that time?

8 A. Well, he -- he came back with the big  
9 dog after that, with Mr. Anderson, and they  
10 showed me this ponderous dataset, which was a --  
11 which -- which Lilly had elaborated -- I don't  
12 think it was directly in response to our  
13 publications, but in response to the mounting  
14 public interest or -- in the -- in the academic  
15 community about this issue, where they had --  
16 where they had taken this literally thousands of  
17 patients in their controlled clinical trials and  
18 summarized it and showing that there was -- that  
19 there was no difference among placebo,  
20 haloperidol and olanzapine and what they  
21 idiosyncratically called impaired glucose  
22 tolerance.

23 And it was this -- as I say, just a  
24 tortured dataset, but it was -- it was a heck of  
25 a lot of data and we went over and over and over

1 that.

2 Q. Did they later -- I'm sorry.

3 A. I was just going to say that there  
4 were -- there were meetings following that,  
5 however.

6 Q. Did they later show you any data  
7 indicating that Lilly was, in fact, aware of the  
8 risk of diabetes --

9 Strike that.

10 Did they later -- did Mr. Hamm or  
11 Mr. Anderson later show you any data indicating  
12 that Lilly was, in fact, aware of a higher risk  
13 of hyperglycemia with Zyprexa as compared to  
14 placebo?

15 A. No, he did not show me any data. He  
16 didn't see that the written compilation like I  
17 described from that summary gemish, but he did  
18 say -- and this was, well, I'm guessing now, but  
19 six, eight months down the road, that from the  
20 HGAJ study, that there was a 0.5 versus  
21 2.0 percent difference between haloperidol, 0.5,  
22 and olanzapine 2.0, of diabetes. I'm not sure --  
23 I'm not sure whether it was diabetes or --  
24 impaired glucose tolerance, but it was involving  
25 endocrinologic function, at any rate,

1 between haloperidol and olanzapine.

2 Q. And was the Zyprexa the 2 percent and  
3 the haloperidol the 0.5 percent?

4 A. That's correct, about four times  
5 difference.

6 Q. About four times difference?

7 A. Yes, sir.

8 Q. And would that four times difference,  
9 would that be consistent with the weight gain  
10 results from the HGAJ study that we talked about  
11 earlier --

12 A. It -- it would be --

13 Q. -- the 24 pounds weight gain?

14 A. Yeah, it would -- it would -- it would  
15 depend on several factors. Even though I said  
16 that there's an ironclad association between  
17 weight gain and diabetes, it depends on the  
18 details. It depends on what race we're talking  
19 about, what gender we're talking about, what age  
20 we're talking about, what your genetic background  
21 is. But, on average, a fourfold difference.  
22 Let's assume that haloperidol caused no change.  
23 That's smaller than I would anticipate, but in  
24 the price category.

25 Q. Why if he was so adamant in the first

1 meeting after -- by the way, let's get the  
2 timeline on this down.

3 Your article was published in '98.

4 A. Correct.

5 Q. When was your -- when was your first  
6 conversation with Mr. Hamm? Would that have also  
7 been in '98?

8 A. It would have -- my guess would have  
9 been before the publication came out. Because we  
10 had presented this, as I say, in this abstract  
11 form that we'd alluded to earlier, half a dozen  
12 times or so at various conferences over the  
13 previous year and a half. So my guess would be  
14 at least early '98, if not late '97, something  
15 like that.

16 Q. Okay.

17 And your second conversation with  
18 him --

19 A. Was --

20 Q. -- and this was the conversation where  
21 you said he told you orally about results showing  
22 a higher risk of -- with Zyprexa.

23 A. That was not Mr. Hamm; that was  
24 Mr. Anderson. And that would have been -- that  
25 would have been definitely down the road. And my

1 guess would be late '98, early '99.

2 Q. Okay.

3 But why would he first tell you  
4 adamantly there is no association and then later  
5 tell you orally of this evidence, showing that  
6 there was an increased risk?

7 A. Well, I could -- I can only tell you  
8 what my guess is as to what his motivation was.  
9 My motivation -- he believed the first one, and  
10 that there was the data -- additional data he had  
11 for the second one. That -- it's -- in the  
12 business of academics you -- we change our mind  
13 all the time based on what the data tells us.  
14 You can't get wedded to any -- any one fact.  
15 That -- that doesn't surprise me.

16 Q. Did --

17 I'm sorry.

18 A. So -- so my -- my assumption is that --  
19 is that, you know, these studies were not done to  
20 specifically address and look at the question of  
21 does it cause problems with diabetes, weight  
22 gain, lipid, et cetera, et cetera.

23 These studies were done to  
24 investigate the primary impact of these compounds  
25 on psychotic symptoms. And these other things

1 had to be pretty big if they came up. So the --  
2 it's -- it might seem like a trivial thing.

3 Well, go back and check their weights, go back  
4 and check this. It might seem an easy thing, but  
5 it is really difficult to go back and  
6 exhaustively check those datasets.

7 So my assumption was that they just  
8 got better data as time went on, that they had  
9 cleaned up the datasets, more reliably  
10 established the integrity of that dataset, and  
11 that's what they -- that's what they showed.  
12 Didn't surprise me, I mean --

13 Q. Sir, you said you studied the labeling  
14 from '96 to 2006. Did they -- did the labeling  
15 ever warn physicians that there was a fourfold  
16 increased incidence of impaired glucose with  
17 Zyprexa as compared to Haldol?

18 A. No. As we've talked about, it's in the  
19 adverse experiences, not as a -- not as a  
20 fourfold difference, but it has the infrequent  
21 listing and consistently throughout that period  
22 you referenced.

23 Q. My question is very specific.

24 Did -- did the labeling ever at any  
25 time, in any part of the labeling, ever tell

1 physicians that there was a fourfold increased  
2 incidence of impaired glucose with Zyprexa as  
3 compared to Haldol?

4 A. No, sir.

5 Q. Okay.

6 MR. SUGGS: Chris, could you pull  
7 up Exhibit 988, please.

8 Your Honor, I believe Exhibit 988  
9 is already admitted.

10 Q. (BY MR. SUGGS) And this is a document  
11 entitled Census of Spontaneous Reports for  
12 Olanzapine During the First Two Years of  
13 Marketing, September, '96 to September, '98. And  
14 if I could direct your attention to --

15 Can you pull up Page 14, please,  
16 Chris.

17 On this page there is a heading  
18 of -- well, it's a description, Census of Adverse  
19 Events from Clintrace Database, Olanzapine,  
20 Spontaneous Reports.

21 Do you see that language, sir?

22 A. I do.

23 Q. Okay.

24 And an adverse event or spontaneous  
25 report, am I correct that that is a report that

1 can come from a patient or a physician or from  
2 anyone, really, describing an adverse event that  
3 occurs in a patient after they've used the drug?

4 A. That's correct. I mean, the vast  
5 majority come from clinicians.

6 Q. Okay.

7 And this particular page has  
8 grouped together under the endocrine section  
9 about -- I guess it's six different items, all of  
10 which are related to blood sugar elevation, those  
11 being hyperglycemia, diabetes mellitus, diabetic  
12 acidosis, diabetic coma, ketosis and glucose  
13 tolerance decreased, and Chris, could you  
14 highlight the -- there's also -- it's hard to  
15 read because of the -- I guess it's highlighting  
16 that was in the original document, but it says  
17 unduplicated reports.

18 That's clearer. I wish you would  
19 have kept it there.

20 Chris, can you undo that, because  
21 it's even less visible now than it was.

22 Doctor, how many unduplicated  
23 reports are there total for the -- for the two  
24 years there that is described in this report?

25 A. Obviously on the far right-hand column

1 nobody bothers phoning in my patient on  
2 penicillin got a rash. It's like thank you,  
3 Doctor. We'll write it down.

4 Q. Now, if those estimates of 1 percent to  
5 10 percent are correct, what would this 194  
6 unduplicated reports represent out in the real  
7 world?

8 A. At 10 percent it would be 2,000, at 1  
9 percent it would be 20,000, so 2- to 20,000.

10 Q. And is the potential for almost 20,000  
11 cases of blood sugar elevation of one sort or  
12 another -- is that additional further reasonable  
13 evidence of an association of the drug with a  
14 serious hazard, in your view?

15 A. Well, of course. I mean, again, this is  
16 what you would expect in a drug that causes --  
17 causes weight gain. This is -- I would be very  
18 surprised if you didn't have these reports.

19 Q. Okay.

20 Now, your 1998 article was the  
21 first publication ever identifying any cases of  
22 diabetes related to Zyprexa; is that correct?

23 A. That -- that's correct, but -- but  
24 remember, the process of getting a publication in  
25 peer review is -- nobody goes through that effort

1 you see there's 194.

2 Q. 194. Okay.

3 We've had testimony from  
4 Dr. Gueriguian that it's estimated that the  
5 number of adverse events that actually occur in  
6 the real world is somewhere on the order of one  
7 percent to --

8 Strike that.

9 We've heard testimony from  
10 Dr. Gueriguian that the number of adverse events  
11 that are reported are only about one percent to  
12 perhaps 10 percent of those that are -- actually  
13 occur out in the real world. Is that your  
14 understanding, as well?

15 A. Yeah, those numbers are usually quoted  
16 for new drugs. For instance, once a -- once an  
17 adverse experience is obvious and everybody knows  
18 that this occurs, they drop way down, so it gets  
19 even lower than that. So those numbers --  
20 particularly that 10 percent number, that would  
21 only occur when a drug is brand new and people  
22 were just completely unfamiliar with the side  
23 effects.

24 Once you get familiar with the side  
25 effects you just -- you don't -- you don't --

1 except for -- except for academicians. It's just  
2 so much work. The process of reporting an  
3 adverse experience is hello, this is Bob, this is  
4 what I saw. Good-bye. It doesn't take -- it  
5 doesn't take anything -- you can do it on the Net  
6 now, actually. So it's a trivial process.

7 So the fact that there were this  
8 many clinicians, it's just so much easier to  
9 notice and then to present this. It doesn't  
10 surprise me at all. Publication and peer  
11 reviewed is much more arduous and much more time  
12 consuming.

13 Q. Whether you had your meetings with  
14 Mr. Hamm and Mr. Anderson after you published  
15 your article, did they ever tell you that by 1998  
16 they had almost 200 reports of adverse events --

17 A. No.

18 Q. -- relating to blood sugar elevation?

19 A. No. Yeah, these -- these type of  
20 reports are generally kept by the company.

21 MR. SUGGS: Chris, can you blow up  
22 that bottom word there in the middle The  
23 "Confidential."

24 Q (BY MR. SUGGS) Sir, do you believe it's  
25 appropriate to keep confidential the number of

1 adverse events with a drug?

2 A. Do I personally believe that?

3 Q. Yes.

4 A. I think it's downright ridiculous. It's  
5 why you report them, so people will know about  
6 them. That's the whole point.

7 MR. SUGGS: Chris, could you pull  
8 up Exhibit 1215, please.

9 For the record, Exhibit 1215 is  
10 admitted, Your Honor. It's a -- an e-mail chain.  
11 All the e-mails are in late 1998.

12 And Chris, could I have you pull up  
13 the second physical page of this document. This  
14 is an e-mail from Peter Clark to Jack E. Jordan,  
15 Bruce Kinon, John R. Richards, with copies to  
16 Jeffrey Ramsey, Robert P. Schmidt, subject the  
17 Wishing/Goldstein articles. And also, Chris,  
18 could you pull up the -- there's some bulleted  
19 points below that, and could you pull up the  
20 second and the third bulleted points.

21 Q (BY MR. SUGGS) Dr. Wirshing, at the  
22 time of this page the e-mail starts off by  
23 saying, Rob has asked me to summarize the points  
24 we would raise in response to the recent reports  
25 of hyperglycemia linked with Zyprexa use raised

1 in the Wishing article, published in the Society  
2 of Biological Psychiatry. They misspelled your  
3 name there, but that is you and that is the  
4 article that you published in 1998, is it not?

5 A. My wife and I, yes.

6 Q. Okay.

7 And they also referred to another  
8 article that was published -- or soon to be  
9 published, apparently, at that time by Goldstein,  
10 that was soon to be published in Psychosomatics  
11 Journal. I believe that's a misspelling of --

12 A. Psychosomatics.

13 Q. And are you familiar with that article  
14 by Goldstein?

15 A. Yes.

16 Q. Okay.

17 And if can direct your attention to  
18 the two bullet points that are blown up there,  
19 which is apparently what they were saying that  
20 they were going to use to respond to your report  
21 and that of Mr. Wishing (sic). They state the,  
22 quote, "use of antipsychotics may result in  
23 weight gain. Patients who gain weight may  
24 develop insulin resistance, which may lead to  
25 hyperglycemia and diabetes." Do you see that

1 language, sir?

2 A. Of course.

3 Q. And was that consistent with the thrust  
4 of your article?

5 A. Obviously.

6 Q. Okay.

7 Was that also consistent with the  
8 thrust of the Goldstein article?

9 A. Definitely.

10 Q. Okay.

11 MR. SUGGS: Now, could you turn to  
12 the previous page, Chris, which is actually the  
13 response to that e-mail suggestion. And just go  
14 ahead -- actually, could you also include the  
15 name of the person who sent the e-mail.

16 Q (BY MR. SUGGS) Okay. This is the  
17 e-mail response from Bruce Kinon. Do you know  
18 Mr. Kinon or Dr. Kinon?

19 A. It's Dr. Kinon. Yes, got to know Bruce  
20 when he was working with John Kane at Long Island  
21 Jewish Hospital in New York. It's a  
22 collaborative group we've worked with for  
23 decades. Bruce actually did one of my -- one of  
24 my favorite studies in antipsychotic treatment  
25 that I talk about all the time.

1 Q. And Dr. Kinon responds to Peter Clark  
2 with copies to Jack Jordan, Jeffrey Ramsey, John  
3 R. Richards and Robert Schmidt. Is that correct?

4 A. That's what it says, yes.

5 Q. And is that John R. Richards the same  
6 person that you met with back two years earlier  
7 and -- at the Italian restaurant in New York and  
8 told you -- you told him you had concerns about  
9 Zyprexa?

10 A. I always refer to him as J. R., but yes.

11 Q. Okay.

12 And in his e-mail, Dr. Kinon says,  
13 Thank you for advising me of the response to the  
14 hyperglycemia issue. I do have concerns  
15 regarding making any connections between  
16 olanzapine-induced weight gain and hyperglycemia.  
17 Therefore, in my opinion, I would not include  
18 your following statement, quote, "patients who  
19 gain weight may develop insulin resistance which  
20 may lead to hyperglycemia and diabetes."

21 Do you see that language, sir?

22 A. I do.

23 Q. And is Dr. Kinon's recommendation what  
24 you would expect from a reasonably prudent drug  
25 manufacturer?

1 A. I don't -- I don't know how to explain  
2 at all Bruce -- Bruce's response. I mean, it  
3 just -- it just makes no sense medically. It  
4 just makes no sense. So it's -- it's not the  
5 recommendation that anybody would give.

6 Q. At least no reasonable manufacturer,  
7 correct?

8 A. Absolutely not.

9 Q. Okay.

10 Now, the following year, in 1999,  
11 did you and your colleagues publish another paper  
12 which further linked Zyprexa with weight gain?

13 A. Zyprexa and other compounds, yes.

14 Q. Okay.

15 MR. SUGGS: Chris, can you pull up  
16 Exhibit AK10142, please.

17 For the record, this is a medical  
18 article published in the Journal of Clinical  
19 Psychiatry in June of 1999, entitled Novel  
20 Antipsychotics, Comparison of Weight Gain  
21 Liabilities, by Donna Wirshing, other -- and  
22 Dr. William Wirshing, as well as other authors.  
23 Your Honor, we also offer Exhibit AK10142 for the  
24 purposes of notice.

25 MR. LEHNER: That's fine, Your

1 Honor.

2 THE COURT: And again, ladies and  
3 gentlemen, this document is offered for the  
4 purpose of notice to Lilly of the information  
5 contained in the article. 10142 is admitted.

6 Q. (BY MR. SUGGS) And this was published  
7 in the Journal of Clinical Psychiatry. Is that a  
8 peer-reviewed journal, Dr. Wirshing?

9 A. Yes, sir.

10 Q. And is it well respected?

11 A. It's very -- very commonly read.

12 Q. Okay.

13 A. Almost all psychiatrists get it.

14 Q. And what did you do in this study?

15 A. This study was very long in coming  
16 about. This -- involves looking, as I recall, at  
17 92 different subjects in one or another  
18 controlled experiments that we had done in -- in  
19 our research center over six years. Wait. No.  
20 Probably close -- went back even further.  
21 Probably eight years.

22 So studies were already done, we  
23 went back and looked at the changes in weight of  
24 patients who were put on one or another of these  
25 compounds over time, and looked at the -- looked

1 at the pattern, what happened to that weight  
2 gain, did it persist, did it increase, did it go  
3 down, did it change, and looked at the  
4 differences between -- or among various  
5 antipsychotic compounds. Most of these were in  
6 the atypical class --

7 Q. Okay.

8 A. -- but I think there was a comparison  
9 typical drug also involved.

10 Q. And do we have a slide that helps  
11 illustrate the results from the study?

12 A. I think we've got a couple of them, yes.

13 MR. SUGGS: Can you pull up Slide  
14 14, Chris.

15 Q. (BY MR. SUGGS) Okay, it appears that  
16 the colors for the various drugs that you were  
17 studying here were blue for clozapine, yellow for  
18 olanzapine, green for Risperdal, blue for --

19 A. Sertindole.

20 Q. Sertindole?

21 A. Yeah, it's a compound that was marketed  
22 briefly in Europe but because of some very  
23 interesting cardiotoxicity never made it to  
24 market here. Very interesting compound, though.

25 Q. Okay.

1 And the HAL, does that stand for  
2 haloperidol?

3 A. It does, yes.

4 Q. And this chart, does it accurately  
5 reflect the -- the findings from your study?

6 A. Right. So this is a summary of those 92  
7 subjects, kind of a complex statistical analysis,  
8 but controlling for baseline weight, gender, age,  
9 race, et cetera, and so that you can make a  
10 reasonable comparison, because you don't always  
11 put the same kind of patients in each study, so  
12 this is as best we could do, controlling for all  
13 the variables that we know that might impact  
14 weight, so to just selectively live look at the  
15 drug's impact on weight alone. At least that was  
16 our attempt.

17 Q. Okay.

18 And what does it show -- so you've  
19 got the data chunked out between one group for no  
20 change in weight or lost weight, then the middle  
21 category is for less than 10 percent weight gain,  
22 and then to the right it's greater than  
23 10 percent weight gain; is that correct?

24 A. It's a little weird here, but --

25 Q. If I gave you a light pen, would that

1 help point things out?

2 A. You'd probably just get me into trouble.

3 But -- no.

4 If you -- three sets of histograms,  
5 and dividing the 100 percent of patients up into  
6 three separate groups. The first group, the  
7 group on the left there is no change observed or  
8 weight loss during the protocol, and you can --  
9 during the protocols, which ranged, by the way,  
10 from eight weeks to six months.

11 So you can see that the vast  
12 majority of people do change their weight over  
13 the course of time. It is a fact of life in  
14 general for us Americans, but, but there --  
15 sertindole was rather interesting. 25 percent of  
16 patients either lost weight or remained the same,  
17 and that was kind of interesting, and you could  
18 see that the haloperidol group, about 10 percent  
19 don't change. It means that 90 percent do  
20 change.

21 The middle set of histograms -- the  
22 middle set of bars, is at the 10 percent line.  
23 Now, that's going to take a moment to explain  
24 that. The FDA considers that a seven percent  
25 increase in weight constitutes clinical

1 pertinence, but to tell you the truth, they just  
2 pulled that number right out of the frigging sky.  
3 I mean, it just -- you can't find any basis for  
4 that. I happen to like the nice round number 10  
5 so we chose 10 percent. So, you know, for a  
6 150-pound person, that means that a 15-pound  
7 weight change. A 200-pound person, that's a  
8 20-pound weight change. Obviously, a 10-pound  
9 weight difference.

10 So you can see that that's where  
11 the majority of people fell into it, ranging from  
12 a low of 50 percent on clozapine to a high of  
13 around 80 percent on haloperidol gained less than  
14 10 percent. So it's a -- it's -- again, shifting  
15 your weight by 10 percent is a significant  
16 difference. These were all less than 10 percent.

17 Now, the one on the right there is  
18 people that gained more than that, so in excess  
19 of 15 pounds for a prototypic 150-pound male and  
20 the vast majority -- I worked at the VA so the  
21 vast majority, 95 percent of these patients are  
22 male.

23 You could see that for the  
24 clozapine treatment, 40 percent of patients on  
25 clozapine gained more than 10 percent. I mean,

1 that's a startlingly large number. 35 percent on  
2 olanzapine, 10 percent on risperidone and none of  
3 the patients on sertindole, which I will tell you  
4 was of enormous interest to the manufacturer of  
5 sertindole at the time. And about 10 percent of  
6 the patients on Haldol, which is fairly typical  
7 of what we see over the years on haloperidol.

8 Q. Pardon me. Has your finding that  
9 olanzapine causes more weight gain than -- well,  
10 does this indicate that olanzapine results in  
11 more weight gain than most other antipsychotics  
12 but for clozapine?

13 A. Well, no, this -- this simply compares  
14 it to two drugs, to risperidone and haloperidol,  
15 because sertindole is not available. So it says  
16 that it's more than risperidone and haloperidol  
17 and yes, that's been confirmed over and over  
18 again. The things that -- this dataset differs  
19 from most in the literature in that risperidone,  
20 the green there at the far right, risperidone in  
21 general causes about twice the weight gain of  
22 Haldol and about half the weight gain of  
23 olanzapine, and in our dataset it caused  
24 approximately the same as haloperidol. So that's  
25 a little different.

1 But other than that difference,  
2 clozapine, olanzapine, risperidone, haloperidol,  
3 that rank order has been confirmed by literally  
4 hundreds of different researchers.

5 MR. SUGGS: Your Honor, would this  
6 be a good time for a morning break?

7 THE COURT: Yes, it is. Ladies and  
8 gentlemen of the jury, we will take our morning  
9 break, and we'll be in recess for about 15  
10 minutes.

11 THE CLERK: Off record.  
12 (Short recess.)

13 THE COURT: Would counsel please  
14 approach for a second.

15 I'm told that one of the jurors is  
16 having stomach problems, so it's possible we may  
17 need to take some more frequent recesses. He  
18 knows to raise his hand if he needs to take a  
19 break before we do. I just want to let you know  
20 that that's what's going on. We'll -- I just  
21 wanted to let you know.

22 MR. LEHNER: Okay.

23 THE COURT: Please, Mr. Suggs.

24 MR. SUGGS: Thank you, Your Honor.

25 Q. (BY MR. SUGGS) Dr. Wirshing, there's

1 one thing I meant to you ask earlier about your  
2 background. Am I correct that you've had three  
3 different types of cancer?

4 A. Yes, sir, I have.

5 Q. And based on that experience, are you  
6 anti or pro drug company, and anti or pro  
7 pharmaceutical products?

8 A. I'm -- I can say unequivocally and  
9 without question I would not be alive if I did  
10 not take medications from one, two, three  
11 separate manufacturers every single day of my  
12 life. They are life-sustaining for me. They've  
13 allowed me to have three children, allowed me to  
14 have a career.

15 Q. Okay. Thank you, Dr. Wirshing.

16 Dr. Wirshing, were you aware in  
17 2000 that Lilly was claiming in a paper prepared  
18 for publication that the rate of impaired glucose  
19 intolerance (sic) and diabetes with Zyprexa was  
20 comparable to the rates with placebo, haloperidol  
21 and risperidone?

22 A. I was, yes, sir.

23 Q. And how is it that you became aware of  
24 that position?

25 A. A couple of different ways. One, that

1 was the basis of the data that I referenced with  
2 regard to Mr. Hamm and Mr. Anderson, and  
3 secondly, I was actually a reviewer on the  
4 paper -- I think it was sent -- Biological  
5 Psychiatry or The Journal of Clinical Psychiatry,  
6 one of those two. I recall I reviewed the paper  
7 twice, first after it was rejected and then once  
8 again, I think.

9 MR. SUGGS: Can you pull up AK3645,  
10 Chris.

11 For the record, this is a -- a  
12 paper entitled Incidence and Rate of  
13 Treatment-emergent Potential Impaired Glucose  
14 Tolerance and Potential Diabetes with Olanzapine  
15 Compared to Other Antipsychotic Agents and  
16 Placebo. The authors are Charles Beasley,  
17 Kenneth Kwong, Paul Berg, Cindy Taylor, Jamie  
18 Dananberg and Alan Breier.

19 Your Honor, the State of Alaska  
20 would move for the admission of AK3645, not for  
21 notice but for the purpose of motive and intent.

22 MR. LEHNER: Your Honor, we weren't  
23 giving notice that that was going to be the  
24 purpose, so we'll take a look at that with that  
25 in mind.

1 THE COURT: Okay.

2 MR. SUGGS: Your Honor, I will note  
3 that I provided this to them 24 hours ago.

4 MR. LEHNER: I agree. It's a  
5 scientific article --

6 THE COURT: Now the testimony about  
7 this point, subject to rulings about  
8 admissibility of the document.

9 MR. SUGGS: Very well, Your Honor.

10 Q. (BY MR. SUGGS) Is this the paper that  
11 you reviewed?

12 A. Yes, sir.

13 Q. Okay.

14 MR. SUGGS: And Chris, could you  
15 pull up the third physical page and conclusion of  
16 the paper.

17 Q. (BY MR. SUGGS) The conclusion of this  
18 paper -- oh, by the way, the authors were all  
19 Lilly employees, were they not?

20 A. As far as I'm aware. I'm only personal  
21 familiar with two of them, though.

22 Q. Okay.

23 The conclusion of this paper was  
24 the rate of development of IGT -- let's stop  
25 right there. What is IGT, least --

1 A. IGT is idiosyncratically defined in  
2 this -- in this article. It stands for impaired  
3 glucose tolerance. It has no acceptable meaning  
4 to anybody. As I say, it was ad hoc, defined for  
5 the purposes of this particular article as a  
6 random glucose, so blood drawn irrespective of  
7 whatever time you had eaten, and a level of 160.  
8 So it's just -- it's a number without meaning in  
9 the -- in the diabetic literature.

10 Q. Okay.

11 It states, the rate of development  
12 of IGT and diabetes during the course of severe  
13 neuropsychiatric illness is higher than perhaps  
14 heretofore appreciated. The estimated rate with  
15 olanzapine is comparable to the rates with  
16 placebo, haloperidol and risperidone. Olanzapine  
17 was associated with a lower estimated rate than  
18 clozapine. Did I read that correctly?

19 A. Yes, sir.

20 Q. Okay.

21 And I believe you testified that  
22 you have -- you reviewed this article that was  
23 submitted to the Journal of Biological  
24 Psychiatry; is that correct?

25 A. That is correct, sir. Yes, sir.

<p style="text-align: right;">Page 106</p> <p>1 MR. SUGGS: And Chris, could you  2 pull up Exhibit 1440.  3 And I believe this -- this  4 Exhibit 1440 is already admitted. I'll need to  5 check with Mr. Borneman later.  6 Q. (BY MR. SUGGS) And you've blown up the  7 top of the page. It appears to be a fax dated  8 November 3, 2000, from Biological Psychiatry,  9 regarding a manuscript, and it gives the title  10 and then the authors, and is that the same  11 manuscript that we looked at just moments ago,  12 Exhibit 3645?  13 A. Yes, sir, it is.  14 Q. Okay.  15 And were you one of the reviewers  16 of this paper?  17 A. I was, yes, sir.  18 Q. And were there three reviewers on this  19 paper?  20 A. As I recall. Usually the -- depends on  21 the particular journal, from three to the  22 hoity-toity journals, seven, but three's a usual  23 number.  24 Q. Okay.  25 MR. SUGGS: And Chris, could you</p>	<p style="text-align: right;">Page 108</p> <p>1 risk of diabetes, olanzapine appears to be in the  2 enviable position of eliminating the known risk  3 of glucose intolerance associated with weight  4 gain.  5 Did I read that correctly?  6 A. Yes, sir, you did.  7 Q. And did you write that with tongue in  8 cheek?  9 A. Yes, sir, it was somewhat nastily  10 sarcastic.  11 Q. Okay.  12 And I believe you said that this  13 article was rejected by the Journal of Biological  14 Psychiatry?  15 A. Yes. I mean, that's a -- my review is a  16 frank rejection.  17 Q. And do the other two -- did the other  18 two authors also have criticisms of the  19 methodology of the paper?  20 A. They did.  21 Q. Okay.  22 I believe you said that you  23 reviewed this for some other journal, as well.  24 Do you remember what the journal is?  25 A. Yes, I remember the second journal it</p>
<p style="text-align: right;">Page 107</p> <p>1 pull up the second page.  2 And blow up the text of the review.  3 Q. (BY MR. SUGGS) And is this the review  4 that you wrote?  5 A. Yes, sir. Yes, sir, it is.  6 Q. Okay.  7 You stated -- and by the way, which  8 would have been back in November of 2000; is that  9 correct?  10 A. Yes, sir, November 3rd, 2000.  11 Q. Okay.  12 The authors present a highly  13 curious dataset. Since their own work has shown  14 that olanzapine is associated with a clinically  15 and statistically pertinent increase in weight  16 compared to both haloperidol and placebo, they  17 seem to be suggesting that olanzapine exerts a  18 sizable antidiabetic power. It is estimated by  19 the American Diabetic Association that a one  20 pound increase in adipose tissue is associated  21 with a 4 percent increase in the risk of  22 diabetes.  23 Given that olanzapine induces  24 significant weight changes and the authors  25 believe and report that it does not increase the</p>	<p style="text-align: right;">Page 109</p> <p>1 got sent to was -- the order was either  2 Biological Psychiatry, then Journal of Clinical  3 Psychiatry, or vice versa, but I reviewed it for  4 both of them, as I recall.  5 Q. Why would you have been selected to  6 review this paper from Lilly twice?  7 A. Oh. As -- when you send a manuscript  8 in -- it's a little different now, but back then  9 you send a manuscript in and the editor, editor's  10 assistant, assistant assistant, gets the  11 manuscript and goes who the heck can we send this  12 to. And it's a fairly short list of people that  13 have this particular interest that I had. I had  14 a relationship with the editors of these  15 journals. They knew my work, they knew I was  16 interested in this. I don't write big ponderous  17 reviews. I tend to cut to the chase fairly  18 quickly so they use me a lot.  19 Q. Despite the fact that this paper was not  20 published, did Lilly use the dataset from this  21 analysis to make presentations to physicians  22 about the safety of Zyprexa?  23 A. Well, they -- I can't -- can't guarantee  24 what Lilly did with other physicians. I've  25 already talked about them doing it with me. And</p>

<p style="text-align: right;">Page 110</p> <p>1 so I know they did it with me, with Scott, Donna,  2 Steve --  3 Q. Let me stop you for a second. Who are  4 all these other folks?  5 A. Sorry. Donna, my ex and colleague,  6 Wirshing, Steve Erhart, Steve Marder, C. Scott  7 Saunders, Joe Pierre, all psychiatrists, all  8 research psychiatrists in my -- in my group. And  9 to the -- I mean, to the nonprescribers, my  10 research assistants, you know, the Ph.D.  11 candidates, medical students and whatnot, but not  12 prescribers.  13 Q. Do you recall who it was that would have  14 made those presentations?  15 A. Yes. I've already mentioned two of  16 them, Mr. Hamm and Mr. Anderson.  17 Q. Let me stop you for a second. Mr. Hamm  18 was a sales rep, correct?  19 A. That's right.  20 Q. And he was making a presentation of this  21 dataset?  22 A. He and Mr. Anderson, that's correct.  23 And the second one was a delightful young man  24 with a very memorable name, Thomas Hardy, and he  25 was an endocrinologist, a young guy who was</p>	<p style="text-align: right;">Page 112</p> <p>1 the presentation and just waited for him to  2 finish. And afterward I talked to Tom and I  3 said, how can you say that the drug that causes  4 weight gain doesn't have a commensurate increase  5 in the risk of developing diabetes? Why are you  6 sticking to that statement? And I -- you know, I  7 didn't do this in front of my colleagues. I -- I  8 really did like the man. And he just shook his  9 head and he said, I don't know.  10 Q. And when would that conversation have  11 taken place?  12 A. '99.  13 Q. Okay.  14 In the course of reviewing internal  15 Lilly documents in this case, did you review any  16 e-mails discussing a meeting with outside  17 endocrinology experts in October of 2000 in  18 Atlanta, regarding Lilly's hyperglycemia dataset?  19 A. Yes, I reviewed the e-mails. I was not  20 at the meeting but I reviewed the e-mails.  21 Q. Okay.  22 MR. SUGGS: And can you pull up  23 Exhibit 1453, please.  24 And go to the last page.  25 This is a series of e-mails</p>
<p style="text-align: right;">Page 111</p> <p>1 recently out of residency training in  2 endocrinology, very bright guy.  3 He came and presented to the  4 department at UCLA, so I remember he was  5 actually -- he actually presented in the  6 chairman's office, as I recall.  7 Q. It was the same dataset that was --  8 A. Same -- same dataset.  9 And a good guy. As I say, it was a  10 very memorable afternoon.  11 Q. In the course of reviewing internal --  12 well, why was it such a memorable afternoon?  13 A. Well, he was -- he was clearly sent  14 around by Lilly. This was his job. He worked  15 for Lilly. He sent around by Lilly to debrief us  16 about these data, and to -- to in a sense, I  17 think, counter some of the escalating evidence  18 from the literature, the mounting evidence from  19 the literature that olanzapine was in fact  20 associated with endocrinologic disturbance.  21 I guess we've talked about it,  22 presumably through its impact on weight. That's  23 just the simplest and most parsimonious  24 explanation for that observation. And I --  25 believe it or not, I was relatively polite during</p>	<p style="text-align: right;">Page 113</p> <p>1 regarding a meeting in Atlanta that various  2 representatives of Lilly had with the North  3 American Diabetes Advisory Board or NADAB.  4 Can you go to the next page,  5 please, Chris. And blow up that biggest  6 paragraph there.  7 And I'm not going to go into this  8 in detail because the jury has heard about this  9 meeting through numerous witnesses, but just to  10 refresh the recollection briefly, this is the one  11 where in one e-mail the person I do believe they  12 made a very strong point that unless we come  13 clean on this, referring to hyperglycemia, it  14 could get much more serious than we might  15 anticipate.  16 Q. (BY MR. SUGGS) You reviewed this  17 e-mail, correct?  18 A. I have, but it's my belief that that  19 refers to the combination of weight gain and  20 diabetes.  21 Q. Okay.  22 A. Both of those effects.  23 Q. Okay.  24 MR. SUGGS: And since this e-mail  25 has been discussed with numerous witnesses, I'm</p>

1 not going to go into it in detail, but could you  
2 back up one page, please, Chris.

3 And the last paragraph of that top  
4 e-mail, could you blow that up, please.

5 This particular section of an  
6 e-mail was from e-mail by Dr. Beasley, and he  
7 says, with regard to the marketing side of this  
8 issue of impaired glucose tolerance/diabetes, the  
9 message was clear. Don't get too aggressive  
10 about denial, blaming it on schizophrenia or  
11 claiming no worse than other agents until we are  
12 sure of the facts and sure that we can convince  
13 regulators and academicians, W-L with Rezulin was  
14 the example. Sounds exactly like what Dan Casey  
15 was saying.

16 Q (BY MR. SUGGS) Do you see that  
17 language, sir?

18 A. Yes, sir, I do.

19 Q. And do you know who Dan Casey was?

20 A. Dan Casey is.

21 Q. I'm sorry. Do you know who Dan Casey  
22 is?

23 A. Yes, sir. Dan -- Daniel is a professor  
24 up in Oregon. Sorry. Down in Oregon. He works  
25 in Portland. One of the -- one of the grand men

1 in the profession; was, in fact, was usually the  
2 chair of the FDA's ad hoc committee for each of  
3 the new antipsychotic compounds. I mean, very  
4 bright, capable man.

5 Q. And apparently Dan Casey was giving that  
6 same message as described up above there?

7 A. Oh, yeah. Dan -- Dan worked quite  
8 closely with Donna, my ex and myself in this  
9 issue. We had exactly overlapping interests in  
10 this arena. He began to publish after -- and  
11 lectured, research and whatnot, in this various  
12 topic after we had made our original  
13 observations.

14 Q. And did his publications also indicate  
15 that there was an increased risk of diabetes with  
16 Zyprexa?

17 A. Oh, yes, sir. He had a -- a study where  
18 he looked at his veteran population, he worked in  
19 Portland, as I mentioned, and he had a diabetic  
20 risk on -- related to antipsychotics in general  
21 and olanzapine in particular that had  
22 extraordinarily high rates in his population.

23 Q. Do you recall offhand what --

24 A. Yeah, 64 percent.

25 Q. Wow.

1 A. But it was -- it was in a highly  
2 selected sample but it was really quite  
3 startling.

4 Q. Okay.

5 Did you have the opportunity to  
6 personally observe whether, after receiving this  
7 message, Lilly went ahead and did indeed get too  
8 aggressive about denial, blaming it on  
9 schizophrenia, or claiming no worse than other  
10 agents?

11 A. That is in lockstep with my observation  
12 of precisely what they did.

13 Q. And how is it that you were able to  
14 observe what they did?

15 A. In any number of different ways. In  
16 their presentations, in their interactions with  
17 me, in their responses to publications, in their  
18 response to the consensus panel meeting held  
19 in -- in 2003, whenever it was. 2003. This has  
20 been their message, no worse than other agents.  
21 It's high rate in schizophrenia, people with  
22 schizophrenia are obese, people with  
23 schizophrenia have diabetes, over and over and  
24 over again. This was their message.

25 Q. And are those messages right or wrong,

1 sir?

2 A. Those messages, as I've talked about  
3 already, are -- they are just frustratingly  
4 wrong.

5 Q. And did you yourself personally advise  
6 Lilly, don't get too aggressive about denial.  
7 Don't blame it on schizophrenia, don't claim no  
8 worse than other agents?

9 A. I was within the chorus of academicians  
10 giving that advice.

11 Q. Did you and your colleagues also publish  
12 a retrospective analysis in 2002 entitled The  
13 Effects of Novel Antipsychotics on Glucose and  
14 Lipid Levels?

15 A. We did. This would have been sort of  
16 Metabolic Consequences Part 3. This would be the  
17 next -- next chapter.

18 Q. Okay.

19 And Chris, can you pull up AK10140,  
20 please.

21 (Phone interruption.)

22 THE WITNESS: I apologize. Excuse  
23 me. I thought I had it turned off. I apologize,  
24 Your Honor.

25 THE COURT: That's all right. I

<p style="text-align: right;">Page 118</p> <p>1 told one of the jurors he won't be the last one.  2 I suspect you won't, either.  3 THE WITNESS: I've gotten punished  4 a lot in my life for that. I know better than  5 that.  6 MR. SUGGS: Your Honor, for the  7 record, Exhibit AK10140 is an article published  8 in The Journal of Clinical Psychiatry in  9 October 2002, entitled The Effects of Novel  10 Antipsychotics on Glucose and Lipid Levels. The  11 authors were Donna Wirshing, Jennifer Bird --  12 THE WITNESS: Boyd.  13 MR. SUGGS: Pardon?  14 THE WITNESS: Boyd.  15 MR. SUGGS: Boyd?  16 THE WITNESS: Yes.  17 MR. SUGGS: Oh, I'm sorry. Laura  18 Meng, Jacob Ballon, Steven Marder and  19 Dr. Wirshing.  20 And we would move for the admission  21 of Exhibit AK10140 for purposes of notice, Your  22 Honor.  23 MR. LEHNER: No objection, Your  24 Honor.  25 THE COURT: 10140 is admitted for</p>	<p style="text-align: right;">Page 120</p> <p>1 to these parameters over time. So baseline  2 before they get on the drug, and during various  3 follow-up periods after they get on the drug.  4 This was primarily from our  5 research database that had lots of variants, kind  6 of messy, dirty data, that is to say, it's not  7 rigorously controlled experimentation, just sort  8 of general clinical work that we -- that we had  9 done over the previous 10 years. And -- had  10 hundreds of patients that we were looking at  11 trying to find these data, and then compared  12 across those -- those various -- this drug, drug  13 two, drug three, drug four, controlling for  14 everything we could think of; time on the drug,  15 age of the patient, gender of the patient, race  16 of the patient, et cetera.  17 Q. Okay.  18 And do we have some PowerPoint  19 slides that would help you show the jury what it  20 was you found in this study?  21 A. I think so. Yes, sir.  22 MR. SUGGS: Chris, can you pull up  23 Slide 34, please.  24 Mr. Borneman, is there any way we  25 can dim the light just a tad up there by the --</p>
<p style="text-align: right;">Page 119</p> <p>1 the purposes of notice.  2 Q (BY MR. SUGGS) And Dr. Wirshing, did  3 you intend to imply by the title of this article  4 that the antipsychotic drugs you studied caused  5 the effects that you observed?  6 A. Yes -- yes, sir, I did.  7 Q. And can you tell the jury briefly how it  8 was you went about doing this study?  9 A. Yes. This -- as -- retrospective study,  10 so after all is said and done we decided to ask  11 the question, what is the -- what is the effect  12 on the number of parameters; blood glucose,  13 cholesterol, the various components of  14 cholesterol, et cetera, and we wanted to do  15 weight. I'm embarrassed to tell you that at the  16 VA we didn't have weights, so although we had all  17 these fancy measures, I didn't have patients'  18 weights. It was extremely frustrating. But --  19 because that would have tied it together very  20 nicely. But we did have those measures.  21 So we asked those questions, what  22 is the impact, so we went back and collected  23 patients from our already collected data who had  24 been on this agent, that agent, the next agent,  25 and compared them over time to see what happens</p>	<p style="text-align: right;">Page 121</p> <p>1 THE WITNESS: We need that one off.  2 There we go.  3 MR. SUGGS: Okay. Thanks.  4 Q. (BY MR. SUGGS) Could you explain to us  5 what is shown in this -- by the way, does this  6 graph fairly and accurately depict the data from  7 your article that was published in 2002?  8 A. Yes. Yes, sir, it does.  9 Q. And can you describe for us what it  10 shows?  11 A. Well, so if you look -- look down at the  12 X axis, the one horizontal that's not actually  13 drawn, but running across the bottom there you  14 see the designation for the type of drugs. The  15 first one, I'm not going to even try and tell you  16 what the color is, I'll just let you guess, but  17 clozapine, olanzapine, risperidone, quetiapine,  18 haloperidol and fluphenazine.  19 Haloperidol and fluphenazine are  20 what we call the typical or first-generation  21 class and the first four are the atypical drugs,  22 clozapine being the prototypic one that I  23 mentioned earlier, the olanzapine being the one  24 that we've discussed all morning. And this shows  25 that a zero would be they had no change from</p>

1 baseline and going up 5, 10, 15, 20 percent  
 2 change, and remember, the average glucose, yours,  
 3 mine, anybody without diabetes, fasting sugar  
 4 runs around a hundred, just -- that's a ballpark.  
 5 It goes from 60 to 110, but -- but kind of  
 6 picture 100 in your head.

7 So that would be a change of -- of,  
 8 say, 15 for clozapine or a change of 22 for  
 9 olanzapine, and to put that in context for you,  
 10 the definition of diabetes is 126. So that's --  
 11 if it -- if a person on olanzapine started out at  
 12 a hundred and they -- the average person ended up  
 13 at 122, so just kind of put -- put it in  
 14 perspective for you.

15 The little asterisk on top  
 16 indicates statistical pertinence, meaning that it  
 17 looks like a real statistical change, and you can  
 18 see that even haloperidol, which showed a change  
 19 of 7.5 percent or 7 and a half units on the -- on  
 20 that mythical 100-point scale that I mentioned,  
 21 it also was statistically pertinent, so there's a  
 22 tendency for all of these drugs over time to  
 23 increase a person's fasting glucose ratings.

24 Q. Let me ask you, what period of time did  
 25 this involve?

1 A. It -- it varied, but it -- but it was --  
 2 these data, as I say, are controlled for the  
 3 length of time, but it varied from six months  
 4 to -- to a couple of years.

5 Q. Okay.

6 So these would definitely be  
 7 long-term studies, correct?

8 A. Correct. I mean, again, they're not  
 9 strictly studies, these are long-term  
 10 retrospective observations.

11 Q. Okay.

12 A. You know, we're not really controlling  
 13 people to the degree that you would in a study,  
 14 but they were on the drug, they continued to pick  
 15 it up from the pharmacy, they continued to refill  
 16 it at a regular time, so it looked like they were  
 17 taking it, and as best we could in clinical  
 18 practice, determine, yeah, this is -- this is the  
 19 drug they were taking and this is the effects  
 20 that we noticed in the course of their taking  
 21 this drug.

22 Q. And given the way that you collected the  
 23 data and the types of patients that you collected  
 24 it on, did you have comfort that this was  
 25 reflecting real world experience?

1 A. Oh, yes. Yeah, this -- apart from the  
 2 other -- as distinct, rather, from the other  
 3 datasets that we've talked about so far, this was  
 4 a more real world dataset. This was real world  
 5 practice.

6 Q. Okay.

7 MR. SUGGS: Can you pull up the  
 8 next slide, please, Chris.

9 Q (BY MR. SUGGS) And this shows the  
 10 percent change in triglycerides, and can you  
 11 first tell us what triglycerides are and why we  
 12 should care what they are?

13 A. Okay. Sure. Sure. Triglycerides are  
 14 the main fat energy component that humans eat and  
 15 that we store and that we rely on when we go to  
 16 access those fat stores. Triglycerides are  
 17 structurally very different than cholesterol, and  
 18 historically -- we haven't really cared too much  
 19 about them. They aren't nearly as clearly  
 20 associated with cardiovascular complications like  
 21 atherosclerosis as something like the  
 22 cholesterol.

23 We now know, even though we've  
 24 given short shrift to them over the years and  
 25 little attention, we now know that elevated

1 triglycerides are -- have a minor impact on  
 2 cardiovascular health, and if sufficiently high  
 3 can have a major impact on things like your  
 4 pancreas. So this -- this is looking -- and it  
 5 also -- triglycerides, for instance, when you --  
 6 you eat a fat-laden meal, you have a McDonald's  
 7 quintuple double cheeseburger kind of a thing,  
 8 your triglycerides go way up. Your cholesterol  
 9 doesn't change much after the meal but your  
 10 cholesterol can go way, way up. So that's why  
 11 it's important to get these fasting and all these  
 12 are fasting.

13 THE COURT: You just said your  
 14 cholesterol can go way, way up. Did you mean  
 15 triglycerides?

16 THE WITNESS: Thank you.  
 17 Absolutely. Just like you said.

18 Yeah, your cholesterol changes  
 19 marginally, your triglycerides just rocket up  
 20 tremendously after a fat-laden meal.

21 Q. (BY MR. SUGGS) You said that there's  
 22 evidence that the triglycerides can have a  
 23 negative effect on the pancreas. Is that in  
 24 connection with insulin production or insulin  
 25 regulation or --

1 A. Yeah, actually -- did I say -- extremely  
 2 good question. The answer is absolutely true.  
 3 If you compare a diet which is high in  
 4 triglycerides, fat, to a diet that's slow in  
 5 saturated fats, say, the person on the  
 6 high-saturated fat diet has a great deal of  
 7 difficulty maintaining their insulin regulation.  
 8 They require more insulin.  
 9 It's as though the diet itself  
 10 induces a temporary state of insulin resistance,  
 11 and one of the characteristics -- the reason  
 12 that's important for the -- our purposes here is  
 13 that patients with schizophrenia tend to be at  
 14 the lower socioeconomic spectrum in our society  
 15 and they eat terrible diets. That is absolutely  
 16 true.  
 17 And it's a curious fact of our --  
 18 of our moment in historical context that for the  
 19 first time in our history that less -- having  
 20 less money allows you access to diets that have a  
 21 higher fat content. That has never occurred  
 22 before in the history of man. It's somewhat  
 23 pedantically an aside, but it means that if you  
 24 have a drug which increases it, increases  
 25 triglyceride metabolism, that the worst person

1 you want to give it to is a person that has  
 2 access to an awful lot of dietary fats, which  
 3 happens to be patients with schizophrenia. They  
 4 tend to eat very bad diets.  
 5 MR. SUGGS: Can you pull up the  
 6 next slide.  
 7 THE WITNESS: I'm getting quite --  
 8 MR. SUGGS: I'm sorry.  
 9 THE WITNESS: We hadn't quite  
 10 finished. This shows an absolutely startling  
 11 increase in triglycerides, and to me, apart from  
 12 everything else we've talked about except for  
 13 weight, this is the most amazing data -- or these  
 14 are the most amazing data, rather. And you see  
 15 for clozapine and olanzapine you see 35 and  
 16 40 percent increase in triglycerides. It's due  
 17 to a drug that's -- that's almost an unbelievably  
 18 high level. That is -- that is so dramatic.  
 19 You'll also see quetiapine is --  
 20 shows a decrease. And I will tell you the  
 21 patients on quetiapine gained weight and had some  
 22 difficulties with glucose problems. And the  
 23 explanation I have for this decrease is because  
 24 most quiet -- the study was done shortly after  
 25 quetiapine came to market and the patients who

1 were put on quetiapine had come from clozapine  
 2 and olanzapine. They were treatment failures,  
 3 and so they -- I think this is -- this was my  
 4 attempt to show this effect appears separate from  
 5 simply weight gain causes increase in  
 6 triglycerides.  
 7 This looks like there was something  
 8 else selectively happening for certain compounds  
 9 that caused an elevation in triglycerides that  
 10 was distinct from simple weight gain.  
 11 Q. Okay.  
 12 Anything else we need to talk about  
 13 in this slide or should we move on to the next  
 14 one?  
 15 A. I believe I've beaten it to death.  
 16 Q. Okay.  
 17 MR. SUGGS: Could I have the next  
 18 slide, please?  
 19 This one is entitled Percent Change  
 20 in Cholesterol Values, HDL, and I can never  
 21 remember. I know that there's a good cholesterol  
 22 and a bad cholesterol.  
 23 Q (BY MR. SUGGS) Is this the good one or  
 24 the bad one?  
 25 A. In general if you're trying to remember

1 things, remember, don't get cholesterol. But if  
 2 you're going to have one this is -- this is the  
 3 good one. High density lipoproteins, so-called  
 4 because they have lots of lipoproteins and not  
 5 much fat are the transport system, remember,  
 6 we're in aqueous medium of the blood, fats  
 7 don't -- aren't admissible until they are  
 8 accompanied. You have to go escorted by these  
 9 lipoproteins.  
 10 So the fat stores are from the  
 11 tissues after repair, after tissue building,  
 12 after all the stuff is done -- the body is done  
 13 with it, going back to the liver and to the  
 14 enterohepatic circulation for recycling. So this  
 15 is conceptualized as the good direction. So if  
 16 you have high HDL, this protects you a lot from  
 17 having high LDL, which is the so-called bad  
 18 cholesterol.  
 19 Picture it like a two-way road; one  
 20 road going out to the tissues, that would be the  
 21 so-called bad cholesterol, LDL. And one road  
 22 leading back from the tissues, that would be the  
 23 HDL or the good cholesterol. If you have a good  
 24 flow of HDL you can tolerate a higher flow of  
 25 LDL, but if your HDL drops, that's bad, then you

1 really got to push down that LDL, otherwise  
2 you're in big trouble. And what this showed is  
3 that even though the triglycerides were going up,  
4 as we saw 30 and 40 percent, the HDL was going  
5 down. That's weird.

6 Q. And olanzapine, am I correct, was the  
7 worst offender, not only with respect to this HDL  
8 dimension but also with respect to the  
9 triglycerides and to the glucose; is that  
10 correct?

11 A. That's correct, yes, sir.

12 Q. Okay.

13 By the way, did Lilly -- this was  
14 published in 2002; is that correct?

15 A. That's correct.

16 Q. Before 2007 did Lilly ever include any  
17 language in its warning section of its labeling  
18 about cholesterol or triglycerides?

19 A. No, sir.

20 MR. SUGGS: Can we turn the lights  
21 back up, Mark?

22 Q (BY MR. SUGGS) Dr. Wirshing, we've  
23 already talked a lot -- about a lot of the facts  
24 you've considered and some of your opinions, but  
25 I want to make sure we have a clear record of --

1 of your opinions. Based on your review of the  
2 published scientific literature, including your  
3 own research, do you have an opinion as to  
4 whether Zyprexa can cause weight gain?

5 A. Yes, sir, I do.

6 Q. And what is that opinion?

7 A. That it unequivocally does.

8 Q. And do you have an opinion Zyprexa can  
9 cause diabetes?

10 A. Yes, I do.

11 Q. And what is that opinion?

12 A. That it -- it causes diabetes in direct  
13 proportion to its impact on weight.

14 Q. And do you have an opinion as to whether  
15 Zyprexa can cause hyperlipidemia?

16 A. I do.

17 Q. And what's that opinion?

18 A. That it causes hyperlipidemia through  
19 two separate mechanisms, one of which we've  
20 talked about and one of which we haven't. But  
21 the first mechanism is that it, as your weight  
22 goes up, your transport of lipids goes up and  
23 your cholesterol, triglycerides and whatnot rise  
24 commensurately.

25 The second way that olanzapine --

1 and it's a much more unusual way, I hasten to  
2 add. The second way that olanzapine induces  
3 predominantly hypertriglyceridemia, separate from  
4 the cholesterol transport system,  
5 hypertriglyceridemia is through its impact on the  
6 liver. This occurs early on and can be  
7 startlingly high, but fortunately occurs -- it  
8 occurs relatively uncommonly. An estimate would  
9 be less than 0.5 percent of the population  
10 exposed to it. But it can be severe and  
11 potentially fatal.

12 Q. Do you have an opinion, sir, as to  
13 whether Lilly adequately warned of the risks of  
14 weight gain, diabetes, hyperglycemia,  
15 hyperlipidemia before October of 2007?

16 A. Yes, sir, I do.

17 Q. And what's that opinion?

18 A. They did not.

19 Q. Do you have an opinion, sir, as to  
20 whether the incidence of weight gain,  
21 hyperglycemia, diabetes and hyperlipidemia with  
22 Zyprexa is comparable to the incidence of those  
23 adverse reactions with other atypical  
24 antipsychotics or not comparable?

25 A. Well, it's comparable to some and not

1 comparable to others, so I guess the answer to  
2 the question would be not comparable.

3 Q. Okay.

4 And do you have an opinion as to  
5 whether Zyprexa should be used as a first line  
6 antipsychotic drug, sir?

7 A. I do.

8 Q. And what's that opinion?

9 A. Well, the opinion has really been the  
10 same since -- since the -- since the very  
11 beginning. I wrote the regulations for my VA in  
12 this regard. My opinion is that you should fail  
13 less toxic before resorting to more toxic  
14 technologies, other things being equal.

15 And the second thing, the reason I  
16 was asked to write the regulations actually, by  
17 the VA, is to -- other things being equal, you  
18 should fail cheaper technology before resorting  
19 to more expensive technology.

20 Q. Sir, do you know whether it is generally  
21 accepted in the medical community that Zyprexa  
22 can cause weight gain, diabetes, hyperglycemia  
23 and hyperlipidemia?

24 A. Absolutely.

25 Q. How do you know that, sir? How do you

1 know that it's generally accepted in the medical  
 2 community?  
 3 MR. LEHNER: Objection, Your Honor.  
 4 THE COURT: What's the objection?  
 5 MR. LEHNER: No foundation.  
 6 THE COURT: I think that was a  
 7 foundation question.  
 8 MR. SUGGS: It was.  
 9 THE COURT: So I'll overrule the  
 10 objection.  
 11 Q (BY MR. SUGGS) How do you know that,  
 12 sir?  
 13 A. I am part of the community. I continue  
 14 to -- to lecture frequently. I give at least one  
 15 CV lecture per week, and my reading of the -- the  
 16 literature suggests that the rest of the world  
 17 has kind of finally caught up to my way of  
 18 thinking.  
 19 Q. Sir, do you know of any doctors other  
 20 than those retained by Lilly in this litigation  
 21 who claim that Zyprexa does not cause diabetes?  
 22 MR. LEHNER: Objection, Your Honor.  
 23 No foundation. How would he know that?  
 24 THE COURT: He was asked if he  
 25 knows any doctors. I'll overrule the objection.

1 THE WITNESS: I don't -- I don't --  
 2 I don't know of anyone who -- who believes that.  
 3 I don't -- I don't know that Lilly has any  
 4 doctors that -- that say that olanzapine is not  
 5 associated with increased risk of diabetes.  
 6 MR. SUGGS: I guess we'll find that  
 7 out later.  
 8 Just a couple other quick points I  
 9 wanted to bring up.  
 10 Could you pull up Exhibit 2368.  
 11 This is the consensus development  
 12 conference. It's already been admitted into  
 13 evidence. There's been a lot of testimony about  
 14 this. I'm not going to belabor the details here.  
 15 Q (BY MR. SUGGS) But you were invited to  
 16 present at this conference, were you not?  
 17 A. Yes, sir, both my wife, Donna, and I  
 18 were presenters at that conference.  
 19 Q. And can you go to -- and by the way, you  
 20 were presenting there on two topics, the first of  
 21 them being lipids?  
 22 A. Lipid -- correct.  
 23 Q. And the lipid presentation that you  
 24 gave -- let's see. This would have been in  
 25 November of 2003. Your publication that we were

1 talking about just a moment ago was a year before  
 2 that. Would it be fair to say that your  
 3 presentation here in 2 -- there in 2003 included  
 4 at least the topics that you talk about here to  
 5 the jury just a few moments ago regarding your  
 6 2002 paper?  
 7 A. Yes, very much so. I mean, that's why I  
 8 was asked to do it.  
 9 Q. And was there other scientific  
 10 literature available at the time of this  
 11 conference that was confirmatory of your findings  
 12 that you described in 2002 in that paper?  
 13 A. Absolutely. There was animal research,  
 14 primarily canine, dog model, epidemiologic  
 15 research, basic science receptor, chemistry  
 16 research, and clinical research like my own.  
 17 MR. SUGGS: Thank you.  
 18 And Chris, could you go to Table 3.  
 19 It's at the top of Page 4.  
 20 THE WITNESS: Excuse me for  
 21 interrupting, but the second thing I actually was  
 22 asked to speak on was the monitoring protocol, so  
 23 lipids and the monitoring protocol.  
 24 MR. SUGGS: And that's the part I  
 25 was going to pull up here, Doctor.

1 Table 3 is entitled Monitoring  
 2 Protocol for Patients on SGAs.  
 3 Q (BY MR. SUGGS) That refers to second  
 4 generation antipsychotics; is that correct?  
 5 A. It does.  
 6 Q. And it calls -- did you -- did you make  
 7 a proposal to this consensus panel as to  
 8 monitoring of patients on second-generation  
 9 antipsychotics?  
 10 A. I did.  
 11 Q. And this calls for monitoring of  
 12 personal family history, weight, waist  
 13 circumference, blood pressure, fasting plasma  
 14 glucose, fasting lipid profile at baseline and  
 15 various points in time; is that correct?  
 16 A. That's correct.  
 17 Q. And was this the proposal --  
 18 Strike that.  
 19 Was the proposal that you made to  
 20 the conference, was it what was adopted here in  
 21 Table 3?  
 22 A. Almost. The differences that I  
 23 suggested, which is why I think this is wrong.  
 24 The differences that I suggested were  
 25 measurements of weight at two weeks, the first

1 weight change in two weeks.  
 2 The -- it was adopted at four weeks  
 3 because it was felt that most people don't see  
 4 their patients that frequently, but I felt rather  
 5 strongly and I continue to do so today that at  
 6 two weeks. I also suggested, though I didn't  
 7 argue with this, I also suggested that the first  
 8 lipid check be at eight weeks rather than 12  
 9 weeks, but there's really no difference. I don't  
 10 have an objection to that. Other than those two  
 11 differences, this was the monitoring suggestion  
 12 that I made.

13 Q. And this monitoring program is now --  
 14 Strike that.

15 At any time before October 2007,  
 16 did Lilly's -- by the way --  
 17 Strike that.

18 Did you propose that this  
 19 monitoring be put in place for every patient who  
 20 was using a second-generation antipsychotic?

21 A. Yeah, this was -- except for those  
 22 changes that I alluded to earlier, this was the  
 23 monitoring that I had done since 1996 and  
 24 continue to do so today.

25 Q. And did you ever recommend this

1 monitoring system to Lilly?

2 A. Yes. This -- in those protocols that we  
 3 talked about, the ones that -- one versus  
 4 10 milligrams of olanzapine, premarketing study,  
 5 for instance, embedded within those protocols  
 6 were the monitoring strategies that had all of  
 7 these elements in them. We added those, graphed  
 8 those onto the protocol.

9 That's why we knew about all this  
 10 stuff before anybody else did, because we were  
 11 gathering these data selectively for ourselves,  
 12 because we had specific interest in them. So  
 13 this was routine part of our clinical and  
 14 research work for a decade before this.

15 Q. When was the first time you told Lilly  
 16 about this monitoring protocol of yours?

17 A. Well, I -- when I -- when you do extra  
 18 things on an industry-sponsored protocol you ask  
 19 for more money, and so I said, would you give me  
 20 more money if I did these extra things, and they  
 21 said sure, so I presented the monitoring protocol  
 22 to them before the drug was released.

23 Q. And before October 2007 was that  
 24 monitoring protocol ever part of the labeling for  
 25 Zyprexa?

1 A. No, sir.

2 MR. SUGGS: May I take a moment,  
 3 Your Honor?

4 THE COURT: Sure.

5 (Discussion off the record.)

6 Q (BY MR. SUGGS) Dr. Wirshing, I have  
 7 just one more question for you.

8 A. Sure.

9 Q. During the entire period that you were  
 10 raising issues about weight gain and diabetes,  
 11 before you got involved in this litigation, did  
 12 the folks at Lilly ever question your competence,  
 13 character or scientific standards that led to  
 14 your conclusions and opinions?

15 A. Not to my face.

16 MR. SUGGS: Okay. Thank you,  
 17 Dr. Wirshing. I have no further questions at  
 18 this time.

19 THE COURT: Mr. Lehner?

20 MR. LEHNER: Do you want to take a  
 21 break now?

22 THE COURT: How is the jury doing?  
 23 Anybody need a break?

24 Why don't we continue for a while.

25 CROSS-EXAMINATION

1 Q (BY MR. LEHNER) Hi, Dr. Wirshing. How  
 2 are you?

3 A. Good morning. Fine, sir.

4 Q. Good. We've met before; I had the  
 5 opportunity to take your deposition. Is that  
 6 correct?

7 A. Yes, sir, that's true.

8 Q. We spent about six hours or so, six or  
 9 seven hours at your apartment talking about  
 10 Zyprexa; is that correct?

11 A. We did.

12 Q. And we talked pretty much nothing else  
 13 except about Zyprexa at that time; isn't that  
 14 correct? It was a long day about Zyprexa.

15 A. We had a few other topics, but it was  
 16 definitely obsessively focused on olanzapine.

17 Q. Absolutely.

18 Doctor, you started working, I  
 19 think you said, with Lilly on olanzapine during  
 20 the Phase II clinical trials, and then you also  
 21 worked on some Phase III clinical trials. That's  
 22 what you have told us before; is that correct?

23 A. Phase II and III, yeah. Some of  
 24 their -- some of their trials were kind of  
 25 combined Phase II-III trials, but yeah.

1 Q. And these were the trials that were  
2 conducted before the product was on the market;  
3 is that correct?

4 A. That's correct.

5 Q. And the information, as you've  
6 described, was shared with Lilly, everything that  
7 you were gathering you were turning over to Lilly  
8 at the time; is that correct?

9 A. Everything we've talked about, yes, sir.

10 Q. That's right.

11 And essentially the information  
12 that goes into the label ultimately is the  
13 information that is derived from those clinical  
14 trials; isn't that correct?

15 A. Absolutely, sir. Yes, sir.

16 Q. That's how the process works. The  
17 investigators like yourself do these studies,  
18 turn over the data to Lilly, and then information  
19 is gathered and put together and then ultimately  
20 is conveyed in the label; isn't that correct?

21 A. Yes, sir, that's my understanding too.

22 Q. And as you know, the product Zyprexa  
23 first came on the market in 1996; is that right?

24 A. Yes, sir.

25 Q. Can we take a look at the 1996 label for

1 a minute.

2 And let's turn to the section on  
3 weight gain that we've looked at a number of  
4 times. I think that's about Page 7, 8. If you  
5 blow it up there, the table at the back. A  
6 couple more pages back?

7 MR. SUGGS: Your Honor, can I get a  
8 stipulation that this is not from the PDR but is,  
9 rather, a separate document? On the screen  
10 there?

11 MR. LEHNER: You can get -- it's  
12 not from the PDR. It is Lilly's label. You will  
13 stipulate to that; is that correct?

14 MR. SUGGS: Well, it's not the PDR.  
15 Will you stipulate to that?

16 MR. LEHNER: I'll stipulate that  
17 it's not the PDR if you'll stipulate to it that  
18 it's Lilly's label.

19 MR. SUGGS: I'll stipulate to that.

20 THE COURT: So this exhibit, ladies  
21 and gentlemen, is not from the PDR. It was  
22 Lilly's first label?

23 MR. LEHNER: Yes, the 1996 label.

24 THE COURT: 1996 label.

25 And it's EL2954A.

1 Q (BY MR. LEHNER) And the section that  
2 describes --

3 MR. SUGGS: Excuse me. Do you have  
4 copies? I gave you copies.

5 MR. LEHNER: Yes. Go to Page 16,  
6 and if you can bring up the language under there  
7 that says weight gain under the table, please.

8 The jury has seen this language before,  
9 Dr. Wirshing.

10 Q (BY MR. LEHNER) And let's just go  
11 through that, if you don't mind. Would you read  
12 that to the jury, the first couple sentences  
13 there.

14 A. Beginning with weight gain?

15 Q. Yes.

16 A. Yes, sir.

17 In placebo-controlled six-week  
18 studies weight gain was reported in 5.6 percent  
19 of olanzapine patients compared to 0.8 percent of  
20 placebo patients. Olanzapine patients gained an  
21 average of 2.8 kilograms compared to an average  
22 of 0.4-kilogram weight loss in placebo patients.  
23 29 percent of olanzapine patients gained greater  
24 than 7 percent of their baseline weight, compared  
25 to 3 percent of placebo patients.

1 A categorization of patients at  
2 baseline on the basis of body mass index (BMI)  
3 revealed a significantly greater effect in  
4 patients with low BMI compared to normal or  
5 overweight patients. Nevertheless, weight gain  
6 was greater for all three olanzapine groups  
7 compared to the placebo group.

8 Q. Why don't you stop there. That  
9 described what Lilly learned from investigators  
10 like yourself in what is described as short-term  
11 trials; is that correct?

12 A. In the -- the six-week trials, yes.

13 Q. Right. In the short-term trials.

14 Why don't you go on and read the  
15 next paragraph. That deals with the longer term  
16 continuation therapy.

17 A. During long-term continuation therapy  
18 with olanzapine, 238 median days of exposure, 56  
19 percent of olanzapine patients met criteria for  
20 having gained greater than 7 percent of their  
21 baseline weight. An average weight gain during  
22 long-term therapy was 5.4 kilograms.

23 Q. Okay.

24 Now, it's fair to say that all the  
25 information in that original label concerning

1 weight gain is accurate; is that right?  
 2 A. I have -- I have no -- no idea if it's  
 3 accurate. I mean, I --  
 4 Q. You have no idea?  
 5 A. I mean, I -- I didn't see any original  
 6 data. I mean, I -- I -- I can't comment on its  
 7 accuracy. These are the same data I've seen over  
 8 and over and over again.  
 9 Q. But you have no idea whether it's  
 10 accurate; is that right?  
 11 Well, let's turn to -- as you  
 12 remember, I just said I took your deposition;  
 13 isn't that correct?  
 14 A. That's correct.  
 15 Q. Let's turn to your deposition, if we  
 16 would -- we could and Page 57. And let's go to  
 17 Line 16.  
 18 A. Okay.  
 19 Q. And if you could blow up Line 16, and --  
 20 MR. SUGGS: Excuse me, Your Honor.  
 21 I think the correct procedure is to show the  
 22 witness the deposition and to see if that  
 23 refreshes his recollection.  
 24 THE COURT: I don't know if he's  
 25 refreshing his recollection at this point. It

1 may be impeachment.  
 2 MR. LEHNER: I think I'm going to  
 3 impeach him.  
 4 Q. (BY MR. LEHNER) On Line 16, and let's  
 5 just start beginning to read there. Let me  
 6 ask -- let me make sure that my question is  
 7 focused. I was suggesting and asked --  
 8 What I was asking you was whether  
 9 or not any of the information contained in the  
 10 label was inaccurate, as far as you know. Not  
 11 whether it could be supplemented or whether more  
 12 information could be included, but whether or not  
 13 the information contained in the label was  
 14 accurate as far as your recollection of what was  
 15 demonstrated through the clinical trials. And  
 16 let's go to the next page, if you wouldn't mind.  
 17 And you asked, in terms of weight  
 18 gain, and I said yes, and you said no, meaning  
 19 that it was not inaccurate. That was your answer  
 20 at the time; isn't that correct?  
 21 A. Yes, I didn't know whether it was  
 22 inaccurate or accurate.  
 23 Q. You said it was not inaccurate; is that  
 24 right?  
 25 A. To my knowledge it was not inaccurate,

1 correct.  
 2 Q. And you would agree, Doctor, that weight  
 3 gain is seen in all the atypical antipsychotics,  
 4 correct?  
 5 A. In short-term trials?  
 6 Q. Short-term, long trials. That all  
 7 atypicals have weight gain associated with them  
 8 in some degree or another, isn't that correct?  
 9 A. No. Short-term trial with ziprasdone  
 10 does not show significant weight difference.  
 11 Q. Long-term trials?  
 12 A. Long-term trials too.  
 13 Q. Thank you very much.  
 14 But the weight gain in -- among the  
 15 atypicals varies; is that correct?  
 16 A. Absolutely, yes, sir. Quite widely.  
 17 Q. And indeed some people might gain a fair  
 18 amount of weight, some people may gain no weight,  
 19 some people might even lose weight; it really  
 20 depends on the individual; isn't that correct?  
 21 A. Now we're talking about for an  
 22 individual compound or for across the group?  
 23 Q. I asked the question, it's true that  
 24 these vary across the group and you said yes, and  
 25 I said for an individual, in any particular

1 medication the weight gain may vary; isn't that  
 2 correct?  
 3 A. Clearly.  
 4 Q. Right. And in fact in some cases, the  
 5 weight gain may have a therapeutic benefit,  
 6 particularly for people who are on schizo- --  
 7 people who may be underweight, people whose bad  
 8 diet has caused them to be on the street, people  
 9 whose lifestyle has led them to not have the  
 10 proper nutrition; isn't that correct?  
 11 A. It's a fair question. In clinically  
 12 underweight people, does the addition of an  
 13 atypical compound promote a more favorable weight  
 14 profile. It's -- it's a very good question, and  
 15 I can't answer it actually from the schizophrenic  
 16 population. I can answer it from people who have  
 17 eating disorders, and the answer is yes.  
 18 Q. Yes.  
 19 And --  
 20 A. Can be favorable.  
 21 Q. But there are people who are underweight  
 22 who come into these trials and if they happen to  
 23 gain weight that could be a therapeutic benefit  
 24 in some instances; isn't that correct?  
 25 A. Again, usually, if -- if you gain

1 adiposity, almost irrespective of what your  
 2 baseline weight is, that's not good. If you gain  
 3 lean muscle mass, yeah, absolutely, that's very  
 4 good. That's extremely good. To the extent that  
 5 it would cause lean muscle mass, no, that would  
 6 be very favorable to a person's -- to an  
 7 underweight person's health profile.  
 8 Q. Doctor, you, as we've seen, have written  
 9 about this topic since 1999 or 1996, 1997, 1998.  
 10 You've been actively involved in studying and  
 11 researching the issues of weight gain. When did  
 12 you first learn -- when did you first come to the  
 13 conclusion that, as you said earlier on, there  
 14 could be 24 pounds of weight gain on average per  
 15 year for people on Zyprexa?  
 16 A. When did I --  
 17 Q. When did you first come to that  
 18 conclusion? When did you first --  
 19 A. Well, we -- on Zyprexa, we -- we had --  
 20 our longer-term data would -- would probably have  
 21 supported that, so when did I personally become  
 22 aware of it? I would say I probably became aware  
 23 of that in '96, '97. Because the way we do  
 24 protocols, as you recall, is that people are put  
 25 on open label extensions following their

1 protocol, and I probably had 15 patients by the  
 2 time the drug was marketed who were on  
 3 olanzapine, sometimes for as much as a couple of  
 4 years, before the drug had been marketed.  
 5 Q. That was a -- that was a piece of  
 6 information that you knew very early on; is that  
 7 correct?  
 8 A. From my data, yes. I mean, I hadn't  
 9 heard from other people's data but from my data  
 10 that wouldn't have been surprising at all.  
 11 Q. Right.  
 12 So when Mr. Suggs asked you about  
 13 the '96 label that we just looked at and pointed  
 14 your attention to the 5.4 kilograms or about  
 15 11 pounds, and you said you didn't think there  
 16 was anything in the label that was inaccurate,  
 17 how does that conform to what you then thought  
 18 you believed many years ago about the fact that a  
 19 gain -- people on Zyprexa would gain 24 pounds?  
 20 A. Oh. As a -- as a scientist, there's --  
 21 or as a clinician there's two different datasets.  
 22 One is my patients who are an N of 15 and another  
 23 one is a completely different dataset. I didn't  
 24 have any reason to think that their dataset  
 25 was -- would be identical to mine.

1 Q. So your dataset was based on an N,  
 2 meaning a number of 15 patients, is that correct?  
 3 A. Yeah, it was a much smaller dataset.  
 4 Absolutely right.  
 5 Q. Much smaller dataset. That's right.  
 6 And their dataset was based on how many patients?  
 7 A. The long -- the long-term trials, I'm  
 8 not quite sure. I think -- and I'm not quite  
 9 sure where the 5.4 comes from. If it was -- if  
 10 it was the extension of the haloperidol versus  
 11 olanzapine protocol, there were 2 -- 335 in the  
 12 olanzapine group and 118 or so in the haloperidol  
 13 group, so hundreds of patients at the very least.  
 14 Q. So the Lilly data was based on hundreds  
 15 of patients and your conclusion was based on an N  
 16 of 15 as you said, is that correct?  
 17 A. Yeah, so much more faith in the larger  
 18 number.  
 19 Q. Thank you very much.  
 20 You said you had been provided a  
 21 number of documents from the -- by the attorneys;  
 22 is that correct?  
 23 A. Yes, sir.  
 24 Q. That's right. Boxes of them full?  
 25 A. That's correct.

1 Q. And I think you said you had never seen  
 2 them before they were given to you by the  
 3 attorneys; is that correct?  
 4 A. Most of them I hadn't seen before.  
 5 Q. Most of them?  
 6 A. Yeah. I mean, some -- I've been  
 7 involved in this -- as you very well know, I've  
 8 been involved in this whole experience for some  
 9 time and have been consulted at a number of  
 10 different points in the legal meandering, so I've  
 11 only come into contact with Mr. Suggs and his  
 12 group in the last year or so, but I've had  
 13 contact with other attorneys and so other  
 14 attorneys have provided me with other things.  
 15 Q. So most of -- most of the documents that  
 16 you said that you had seen that you reviewed you  
 17 had not seen before the attorneys, that's what  
 18 you testified here today, before the attorneys,  
 19 these attorneys provided you --  
 20 A. That's correct. Certainly the ones  
 21 we've talked about today.  
 22 Q. And you hadn't seen this material I  
 23 think and you really hadn't done much work on it  
 24 until you said to prepared to come to Alaska to  
 25 testify. Is that correct as well?

1 A. Hadn't done much done --  
 2 Q. On looking at the documents that had  
 3 been prepared --  
 4 A. Before the last year, certainly, no.  
 5 Q. Let's look at Page 209 of your  
 6 deposition, if we could.  
 7 MR. LEHNER: Line 5, please.  
 8 MR. SUGGS: Your Honor, unless  
 9 Mr. Lehner needs to lay a foundation for this  
 10 before putting it up on the screen?  
 11 MR. LEHNER: I think the witness  
 12 testified as I just did that he had not seen any  
 13 of these documents until the attorneys had given  
 14 them to him.  
 15 Q (BY MR. LEHNER) Isn't that correct?  
 16 A Many of them, yes, sir.  
 17 Q. And would you look at line 5 of your  
 18 deposition. This was in answer to a question.  
 19 THE COURT: Are you suggesting,  
 20 Mr. Suggs, that he should just go through the --  
 21 had his deposition taken, when it was taken, is  
 22 that the foundation you're talking?  
 23 MR. SUGGS: No, Your Honor, I think  
 24 if he's going to refresh his recollection --  
 25 THE COURT: I don't think he's

1 refreshing his recollection, he's impeaching.  
 2  
 3 MR. LEHNER: I'm not refreshing his  
 4 recollection.  
 5 MR. SUGGS: Okay.  
 6 Q (BY MR. LEHNER) Would you look at  
 7 Line 5, please. There was -- I don't think that  
 8 there was a single thing that counsel provided to  
 9 me that I had not seen before. Is that correct?  
 10 A. That's correct.  
 11 Q. That's not -- that's your testimony a  
 12 year ago; isn't that correct?  
 13 A. That's --  
 14 Q. In May '07.  
 15 A. That's correct.  
 16 Q. It's not consistent with your testimony  
 17 today; is that correct?  
 18 A. That is not correct.  
 19 THE COURT: Do you want to explain  
 20 that?  
 21 THE WITNESS: Yeah. I start -- I  
 22 started this -- working with Rachel and -- Rachel  
 23 Abrams and Mr. Suggs aggressively on this -- on  
 24 this case about a year ago. December of 2006 or  
 25 so. And it was at that -- prior to that I hadn't

1 seen -- seen only about 25 percent of the  
 2 material, and that dates back to the summer of  
 3 2006, when attorneys for a consortium of -- of  
 4 insurance companies who were, as I recall, suing  
 5 Lilly had retained me and I saw quite a large  
 6 number of documents from them.  
 7 Q (BY MR. LEHNER) Do you recall when your  
 8 deposition was taken here in May '07; is that  
 9 correct?  
 10 A. Of course do I.  
 11 Q. And at that time you said there was not  
 12 a single thing that counsel provided to me that I  
 13 had not seen before; is that correct?  
 14 A. That's correct.  
 15 Q. That's what your testimony is.  
 16 A. That's correct.  
 17 Q. And your testimony provided us with a  
 18 list of what they had provided to you, and we  
 19 talked about that list at your deposition; isn't  
 20 that correct?  
 21 A. That's correct.  
 22 Q. All right.  
 23 Why don't we look at a few of those  
 24 documents.  
 25 A. Certainly.

1 Q. Let's bring up Document 320. This is  
 2 the Dear Doctor letter from Japan. According to  
 3 your testimony --  
 4 THE COURT: This is -- this is --  
 5 MR. LEHNER: This is --  
 6 THE COURT: AK --  
 7 MR. LEHNER: AK320.  
 8 THE COURT: Thank you.  
 9 Q (BY MR. LEHNER) According to your  
 10 testimony, you had seen this before the attorneys  
 11 provided it to you; is that correct?  
 12 A. I had.  
 13 Q. Okay.  
 14 Let's bring up Document 988. This  
 15 is a document that AK998, that you've been shown  
 16 today. You'd seen this before the attorneys had  
 17 provided it to you; is that correct?  
 18 A. No.  
 19 Q. No.  
 20 Let's bring up 990.  
 21 Let's go to the next page. This is  
 22 a document that has been seen in this litigation.  
 23 This is a report to the Global Product Labeling  
 24 Committee. Had you seen that before the  
 25 attorneys provided it to you?

1 A. Yeah, this was provided for me by the  
 2 insurance company attorneys.  
 3 Q. When was that litigation?  
 4 A. I don't know when the litigation was.  
 5 They -- they fired me.  
 6 Q. All right.  
 7 A. But I was --  
 8 Q. And then let's go on to Document 1110.  
 9 That's a document that you had seen before these  
 10 attorneys provided it to you; is that correct?  
 11 A. I didn't even recognize this one yet.  
 12 Q. And let's go on to Document 1111.  
 13 That's a document that you'd seen before; is that  
 14 correct?  
 15 A. What's the date on this one?  
 16 Q. Well, had you seen this document --  
 17 A. I don't -- I don't recognize this. I  
 18 don't have it identified in my head as being I've  
 19 ever seen it before so --  
 20 Q. Let's go on to Document 1449. This is a  
 21 series of e-mails that you've been shown and I  
 22 think Mr. Suggs showed you some of these e-mails;  
 23 is that correct?  
 24 A. Yes.  
 25 Q. Had you seen these before these

1 attorneys had showed it to you?  
 2 A. Yes, I have.  
 3 Q. So, in fact, you had seen a number of  
 4 the documents in this case before these attorneys  
 5 showed them to you; is that correct?  
 6 A. The ones that you've talked about were  
 7 shown to me by the attorneys from the insurance  
 8 companies.  
 9 Q. What about Lilly's -- what about other  
 10 data, for example, from the J data run, had you  
 11 seen any of that? You were an investigator; you  
 12 were a clinical investigator. Had you been  
 13 supplied data from that?  
 14 A. No, sir. It was not -- on the --  
 15 olanzapine versus haloperidol?  
 16 MR. LEHNER: That's correct.  
 17 THE WITNESS: I was not a clinical  
 18 investigator on that protocol.  
 19 Q. (BY MR. LEHNER) Had you seen that data  
 20 before the attorneys showed it to you?  
 21 A. Well, before these attorneys, yes, but  
 22 not -- not the insurance company attorneys.  
 23 Q. You were asked to disclose in your  
 24 expert report matters by which -- for which you'd  
 25 been retained in litigation. Did you disclose

1 that you'd been retained by any insurance  
 2 attorneys in connection with the Zyprexa  
 3 litigation?  
 4 A. I don't recall.  
 5 Q. You did not -- you don't have any  
 6 recollection of disclosing that on your report,  
 7 do you?  
 8 A. I mean, it -- my involvement with them  
 9 was a single day.  
 10 Q. Oh. Okay.  
 11 A. They did not allow me to retain any of  
 12 the documents. I had to go to their office in  
 13 downtown Los Angeles and they made me look at  
 14 them there in the course of a 10-hour day.  
 15 Q. You said you were retained by them.  
 16 A. For that day.  
 17 Q. And your obligation was to disclose all  
 18 the matters in which you've been retained; is  
 19 that correct, to give an opinion?  
 20 A. I presume the answer is yes. It was  
 21 oversight on my -- in case if I left it off.  
 22 Q. Let me ask you a little bit about your  
 23 opinions on weight gain and diabetes.  
 24 A. Yes, sir.  
 25 Q. There is a difference between weight

1 gain and obesity; isn't that correct?  
 2 A. There is, absolutely.  
 3 Q. And one can gain weight and not be  
 4 obese; isn't that correct?  
 5 A. Governor of our state is a case in  
 6 example.  
 7 Q. And you can already be obese and not  
 8 gain any more weight; is that right?  
 9 A. I'm sorry?  
 10 Q. You can be obese and that's sort of the  
 11 condition you are and you're not going to gain  
 12 more weight. You've sort of reached your sort of  
 13 high-level weight; is that right?  
 14 A. Absolutely. Of course.  
 15 Q. And we all know that obesity is a risk  
 16 factor for diabetes; is that right?  
 17 A. That's correct, sir.  
 18 Q. And weight gain can be a risk factor for  
 19 diabetes; is that correct?  
 20 A. That's also correct.  
 21 Q. And doctors learn about all this in  
 22 medical school. You were certainly taught that;  
 23 isn't that correct?  
 24 A. Absolutely. Yes, sir.  
 25 Q. And that's true of primary doctors as

1 well as -- primary care doctors, as well?  
 2 A. It's true of all doctors.  
 3 Q. In fact, primary care doctors spend a  
 4 lot more time treating people who may have  
 5 problems with their weight and diabetes. They're  
 6 very attuned to these particular issues; isn't  
 7 that correct?  
 8 A. It's one of the most common conditions  
 9 afflicting our society today.  
 10 Q. And because doctors know that, you would  
 11 agree with me that you don't need to warn doctors  
 12 specifically about the risk of diabetes if you're  
 13 talking about weight gain; isn't that true?  
 14 A. You know, ideally I would like to say --  
 15 say that that's true, but unfortunately, I think  
 16 the truth is that you do have to remind them. It  
 17 should be axiomatic that weight gain causes  
 18 diabetes; look out for it, Doctor. It should be  
 19 unnecessary, just as your question suggests, but  
 20 my experience is that my colleagues are not quite  
 21 as reliable as you might anticipate.  
 22 Q. Well, you're not prepared to say here  
 23 today that there's a direct causal relationship  
 24 between Zyprexa and the development of diabetes  
 25 other than through weight gain that might occur

1 around the central part of the body; isn't that  
 2 correct?  
 3 A. I am absolutely not.  
 4 Q. That's your belief?  
 5 A. My belief is that -- is that the  
 6 evidence -- the cumulative evidence to date is  
 7 that olanzapine's impact on endocrinologic  
 8 dysfunction, on diabetes, is directly due to its  
 9 impact on weight, yes, sir.  
 10 Q. That's right. And that's -- and that's  
 11 how it happens, there's no direct relationship  
 12 between Zyprexa and diabetes, no effect on the  
 13 pancreas that you've been able to identify, no  
 14 effect on insulin resistance that you've been  
 15 able to identify, other than through weight gain;  
 16 is that right?  
 17 A. We are in agreement. Yes, sir.  
 18 Q. Great.  
 19 Lets talk a little bit about the  
 20 differential risk for diabetes. All right?  
 21 A. Yes, sir.  
 22 Q. Now, I think it was your opinion when  
 23 you wrote a report that you gave in this case  
 24 that there was not enough information to  
 25 determine whether there was a differential rate

1 for diabetes among the atypicals separate from  
 2 weight gain; is that correct?  
 3 A. That's correct.  
 4 Q. And, in fact, in December 2004 you wrote  
 5 an article in the Psychiatric Times. Remember we  
 6 talked about that article?  
 7 A. Yes, sir.  
 8 Q. And that was an article you wrote with  
 9 your wife Donna and others?  
 10 A. Yes, sir.  
 11 Q. And at that time you said that our  
 12 field, and this is December 2004. Our field, and  
 13 you're referring to the field of psychiatry --  
 14 A. Medicine.  
 15 Q. -- is currently grappling with  
 16 insufficient information to date to determine  
 17 their impact, and you were referring to the  
 18 second-generation antipsychotics, on weight gain  
 19 and diabetes; is that correct?  
 20 A. That's correct.  
 21 Q. There wasn't enough information out  
 22 there to make any definitive conclusion at that  
 23 time about the relationship between the  
 24 second-generation antipsychotics and diabetes at  
 25 that time; is that correct?

1 A. That -- that is correct. In particular  
 2 that was because other people were saying of the  
 3 belief that drugs had a selective toxicity on the  
 4 endocrinologic system. It was not my belief.  
 5 Q. And that article accurately reflected  
 6 your views at the time when you wrote it, in  
 7 December 2004, right?  
 8 A. It did. It did. Yes, sir.  
 9 Q. So it would be fair to say that there  
 10 was insufficient information at least as of 2004  
 11 to say that there was a differential risk between  
 12 each of the second-generation antipsychotics with  
 13 respect to this impact they might have on  
 14 diabetes; is that correct?  
 15 A. Yes. Again, that's --  
 16 Q. That's a yes?  
 17 A. That's a yes, and it's referring to  
 18 the -- to the -- this nonobesity related factor.  
 19 Q. Right.  
 20 A. I still don't think there is today.  
 21 Q. So it's only through whatever weight  
 22 gain somebody may gain?  
 23 A. That's correct.  
 24 Q. That's correct.  
 25 Now, you were -- you said you

1 attended the consensus panel; is that correct?  
 2 A Yes, sir.  
 3 Q Is that right and we saw that. And you  
 4 were a presenter, and along with your wife you  
 5 were a presenter; is that correct?  
 6 A Yes, sir.  
 7 Q And did you have an opportunity to  
 8 review the correspondence that the FDA sent to  
 9 the journal that printed the consensus statement?  
 10 A I did, yes, sir.  
 11 Q And the FDA came to the same view that  
 12 you did, didn't they, that there was really  
 13 insufficient information as of that time to  
 14 determine whether or not there was a differential  
 15 risk among the atypical antipsychotics with  
 16 respect to diabetes. That's what they told the  
 17 journal; isn't that correct?  
 18 A That is indeed what they said.  
 19 Q Now, Doctor, let's talk a little bit  
 20 about the label, if -- if we could.  
 21 A Yes, sir.  
 22 Q And you would agree with me and we had a  
 23 little bit of a discussion here that the product  
 24 label, whether it's the label that the  
 25 manufacturer may send to a doctor or whether it's

1 in the PDR, that the label is not a medical  
 2 textbook, is it?  
 3 A Absolutely not.  
 4 Q I mean, it's not designed to teach  
 5 doctors basic information about what they learn  
 6 in medical school?  
 7 A No, sir. It is not.  
 8 Q It's designed to communicate information  
 9 that's going to be clinically significant to  
 10 doctors; isn't that right?  
 11 A That is correct.  
 12 Q And there's a difference -- and we heard  
 13 Dr. Brancati the other day talk about the  
 14 difference between statistically significant  
 15 information and clinically significant  
 16 information.  
 17 A Yes, sir.  
 18 Q You would agree that there is a  
 19 difference between the two; isn't that correct?  
 20 A There can be an enormous difference.  
 21 Q And doctors, when they're looking at a  
 22 label are going to want this clinically  
 23 significant information, and that's the kind of  
 24 information that allows them to make the kind of  
 25 decision they need to make to treat their

1 patients; isn't that correct?  
 2 A That's not only correct, in my  
 3 experience, most doctors don't even know what  
 4 statistically significant means.  
 5 Q So a statistically significant piece of  
 6 information may not provide any useful  
 7 information to a doctor?  
 8 A Potentially so. Yes, sir.  
 9 Q All right.  
 10 And you certainly, I assume,  
 11 wouldn't go to a doctor who -- for some condition  
 12 and if the doctor said, you know, I just read the  
 13 label and I haven't read anything else but I want  
 14 to give you this medicine. That's not the kind  
 15 of doctor you would go to, would you? You'd  
 16 expect a doctor to sort of seek out some  
 17 information from other sources and that's what  
 18 doctors always do before they prescribe a  
 19 medication; isn't that correct?  
 20 A Clearly.  
 21 Q Clearly. In fact, doctors get  
 22 information from all sorts of sources, talking to  
 23 their fellow physicians, going to the Web, going  
 24 to some of the seminars that you may teach and  
 25 others may teach; isn't that correct?

1 A Yeah. My -- it's my hope that people  
 2 would get a -- have a mosaic educational  
 3 experience.  
 4 Q So that they could be best informed  
 5 about the full benefits and the full risks that  
 6 might be associated with the product before they  
 7 would prescribe it to one of their patients;  
 8 isn't that correct?  
 9 A Before, during, after, and -- and also,  
 10 I mean, the -- one of the crucial things about  
 11 continuing education is so that you don't fall  
 12 victim to your own idiosyncratic small  
 13 experience. I did it yesterday, this is what I  
 14 saw, therefore that's what I'm going to see  
 15 today. And so the -- you have to -- you have to  
 16 reach out, you have to get other people's  
 17 experience. The broader that experience and the  
 18 more varied that education, the better you are  
 19 going to be taking care of patients.  
 20 Q Doctor, you looked at a lot of materials  
 21 we said before, you prepared your report here,  
 22 not only the material that the attorneys had  
 23 given you but apparently some other additional  
 24 material, as well; is that right?  
 25 A That's correct.

1 Q. And looking at that material that was --  
2 formed the basis for your report; is that  
3 correct? Conclusions you reached; is that right?

4 A. I think that, my clinical experience, my  
5 intellectual experience over time. Kind of the  
6 sum total of what I've gone through.

7 Q. And, in fact, I think you were qualified  
8 as an expert in labeling and whether the label  
9 would be adequate. You heard that, as well?

10 A. I did.

11 Q. And you're familiar with the regulations  
12 of the FDA, you've told us you're very familiar  
13 with that. You read labels all the time, you're  
14 very familiar with what should be contained in  
15 labels and what would be accurate and what would  
16 be inaccurate as far as the information that may  
17 be contained; is that right?

18 A. I don't know that I would be an expert  
19 in what would be accurate and inaccurate. But I  
20 certainly read labels all the time.

21 Q. And you certainly studied the labels  
22 with respect to the antipsychotics that are on  
23 the board behind you; isn't that correct?

24 A. These and many others, yes, sir.

25 Q. In fact, you specifically reviewed the

1 labeling for each of the six antipsychotic  
2 medications from the year they were first put out  
3 by the FDA up at least until the time you were  
4 deposed in May 2007; isn't that correct?

5 A. That's correct.

6 Q. And you did that specifically in  
7 connection with this litigation; isn't that  
8 right?

9 A. Back a year ago, yes, sir.

10 Q. Right.

11 Now, that would include the  
12 original 1996 label for Zyprexa; isn't that  
13 right?

14 A. About the oldest one I went back to is  
15 '97 or '98, I think, but yeah, it -- well, as  
16 early as I could get to.

17 Q. But the label hadn't changed between '96  
18 and '98?

19 A. No.

20 Q. And you reviewed the 2000 label; is that  
21 correct?

22 A. Yes, sir.

23 Q. And you reviewed the label change that  
24 was made in 2003?

25 A. Yes, sir, I did.

1 Q. All right.

2 Now, I'm going to ask you whether  
3 or not you found anything in reviewing the label  
4 when you reviewed specifically the 1996 label  
5 that was erroneous or inaccurate.

6 A. That was erroneous or inaccurate?

7 Q. Correctly.

8 A. To my knowledge?

9 Q. Yes.

10 A. No. I don't -- I don't think I can -- I  
11 can point to anything that I -- that I knowingly  
12 know was inaccurate at the time.

13 Q. All right.

14 And when you reviewed the 2000  
15 label, did you find anything there that was  
16 erroneous or inaccurate?

17 A. Given my state of knowledge at the time  
18 in 2000?

19 Q. No. When you reviewed that label in  
20 connection with this litigation.

21 A. Correct.

22 Q. Right?

23 After you had an opportunity to  
24 review all the material that the attorneys  
25 provided to you because you said you just

1 reviewed these labels in connection --

2 A. Okay. I'm sorry. I answered the  
3 question improperly, then. I was trying to go  
4 back to my state of my knowledge in 1996.

5 Well, the only thing that would  
6 be -- that would be inaccurate in the label was  
7 the -- the long-term weight gain, which was the  
8 difference between 12 and 24 pounds, but other  
9 than that -- let's see.

10 Well, if you -- no, I mean, the  
11 label did contain hypertriglyceridemia, the label  
12 did contain hypercholesterolemia. It didn't it  
13 quantify it, but what was in there was not  
14 decidedly incorrect.

15 Q. It was not -- it wasn't inaccurate. and  
16 indeed, if you were to prepare a report and  
17 deliberately leave something out, you would  
18 certainly view that as being inaccurate, your  
19 report; isn't that right?

20 A. I guess I wasn't thinking about in that  
21 context. But to answer your question, yes, I  
22 think I would.

23 Q. So when you looked at the 2000 label for  
24 Zyprexa, you didn't see anything there that you  
25 found was erroneous or inaccurate? Is that

1 right?

2 A. Well, in the context of having left --

3 left things out, there was not a quantification

4 of those abnormalities. That is to say, the

5 hypertriglyceridemia, the hypercholesterolemia,

6 and the changes in glucose, they were mentioned,

7 so in that sense they weren't inaccurate. They

8 were there, but they weren't quantified, so the

9 fact that they weren't quantified to the degree

10 they were in the dataset, is that inaccurate by

11 your definition? I guess so. But I -- I didn't

12 quarrel with it. It said hypercholesterolemia,

13 hyperglyceridemia, you know, it had all those

14 side effects in it.

15 Q. When you reviewed, then, Doctor, the

16 2003 label in connection with this litigation,

17 and indeed you sat down and looked at the label

18 in connection with this litigation, in light of

19 all the information that had been provided to you

20 by these attorneys, it was your conclusion that

21 the label was neither erroneous or inaccurate;

22 isn't that right?

23 A. No --

24 Q. Isn't that right? Yes or no, Doctor?

25 A. No, that is not correct.

1 Q. Well, then let's go to your deposition,

2 please.

3 A. Okay.

4 Q. Page 214, and again, this is the

5 deposition that was taken on May 1st, I think,

6 2007; is that correct? By the way, Doctor, when

7 you had your deposition taken, and after your

8 deposition you certainly were aware that you had

9 an opportunity to change your testimony, to add

10 to it, to make any corrections, additions or

11 deletions that you thought were necessary; isn't

12 that correct?

13 A. That is correct. However, I was not

14 sent my deposition.

15 Q. By these attorneys; is that right?

16 A. By Rachel.

17 Q. Attorneys representing the plaintiffs;

18 is that --

19 A. That's correct. I had not seen it for

20 many months.

21 Q. All right.

22 But you were certainly given that

23 opportunity. That's your opportunity under the

24 law to make any corrections --

25 A. Absolutely.

1 Q. -- additions or changes. And you did

2 not take advantage of that opportunity; is that

3 correct?

4 A. That's correct.

5 Q. All right.

6 Now, let's look at Line 20, please,

7 on Page 214.

8 A. Yes, sir.

9 Q. And the question was that -- and you

10 specifically reviewed the labeling of each of the

11 six antipsychotic medications from the year they

12 received FDA approval to the present, and that

13 includes the label for olanzapine that was

14 approved in October 1996; is that correct?

15 A. Right.

16 Q. And can we go to the next page, and you

17 answered: That is correct. And then the

18 question is: And as we've already talked about

19 the information that was included in the label

20 about weight gain, and I think you indicated

21 again that there is nothing erroneous about that.

22 You had some opinions about whether or not more

23 information may have been conveyed in some

24 fashion to other physicians.

25 In review of the label, did you

1 find anything else in the label -- did you find

2 anything in the label that you viewed as

3 erroneous?

4 And you asked, did I -- and then

5 the question was did you find anything in the

6 label, when you reviewed the Zyprexa label from

7 1996 to present, that you found erroneous or

8 inaccurate and your answer was, No, I don't think

9 there was anything frankly wrong. That was your

10 testimony at the time; is that correct?

11 A. That is correct.

12 Q. Thank you.

13 Would this be a good time to take a

14 break?

15 THE COURT: Sure. Why don't we

16 take a -- our second break for the day. We'll be

17 off record for about 15 minutes.

18 (Short recess.)

19 THE COURT: We're back on the

20 record and all members of the jury are present.

21 Mr. Lehner?

22 Q. BY MR. LEHNER: Dr. Wirshing, you

23 know what a medical letter is; isn't that correct?

24 A. Yes, sir.

25 Q. And a medical letter is what doctors

1 receive from pharmaceutical companies from time  
2 to time warning doctors about new findings, new  
3 good things, new bad things, new data that they  
4 may find, new facts that they want to bring to  
5 the attention of the medical community. That's  
6 what the purpose of a medical letter is; isn't  
7 that correct?

8 A. Yes, sir.

9 Q. And you get them pretty regularly; isn't  
10 that right?

11 A. Quite frequently. They're not regular,  
12 but quite frequently.

13 Q. And you recall receiving medical letters  
14 from Lilly from time to time on issues related to  
15 weight gain, diabetes and weight gain management;  
16 isn't that correct.

17 A. Yes, sir. Several.

18 Q. And again, I think you've told me that  
19 you have reviewed the medical letters that you  
20 have received from Lilly on these various topics  
21 in connection with the deposition that you gave  
22 in May 2007; is that correct?

23 A. Yes, sir.

24 Q. And I want to show you some of those  
25 medical letters.

1 A. Certainly.

2 Q. I'd be happy to give counsel a pack  
3 here.

4 Let's start with EL3003.

5 MR. SUGGS: Your Honor, I don't  
6 believe these are in evidence.

7 MR. LEHNER: Your Honor, these are  
8 on our exhibit list. They were not objected to.  
9 I certainly entitled to cross-examine the witness  
10 on these matters, I believe. He testified he'd  
11 has seen them.

12 THE COURT: That's fine. I just  
13 want to get -- I'd like to get things admitted  
14 before the jury shows them so we don't have a  
15 problem down the road with things that are shown  
16 to the jury and then they're not admitted and  
17 then I've got to tell the jury that they've got  
18 to forget about it.

19 MR. LEHNER: Well, and they've made  
20 no objection to them, Your Honor.

21 THE COURT: So can we just get the  
22 numbers and we'll get them admitted.

23 MR. LEHNER: Yes. You're going to  
24 admit them in your case? This is your case.

25 MR. SUGGS: Are you admitting

1 that -- is it -- are these being offered for the  
2 purpose of showing that Dr. Wirshing received  
3 these particular letters?

4 MR. LEHNER: These are being shown  
5 because Dr. Wirshing said he reviewed these  
6 medical letters as part of his expert report.  
7 That's absolutely right.

8 MR. SUGGS: Well, I think you need  
9 to show them to him and see if these are indeed  
10 the ones that he saw.

11 MR. LEHNER: I'd be happy to show  
12 them to him first.

13 THE COURT: Why don't you show them  
14 to him first, and then we'll get what --

15 Q (BY MR. LEHNER) Dr. Wirshing, there's a  
16 series of medical letters that I'm giving you  
17 while I'll identify them for the record --

18 MR. SUGGS: Objection. Your Honor,  
19 can we approach the bench, please?

20 THE COURT: You may.  
21 (Bench discussion.)

22 MR. LEHNER: I'm certainly entitled  
23 to cross-examine him on these medical letters.  
24 He said --

25 THE COURT: You can cross-examine

1 him all you want to. Don't put them up on the  
2 screen if you're not going to admit them. If  
3 you're going to admit them -- if you are going to  
4 put them up on the screen, I want them admitted.  
5 That's my problem. I don't know what your  
6 problem is.

7 MR. SUGGS: The nature of the  
8 objection I have is that he referred to these as  
9 letters, and there's no -- he calls them letters  
10 but there's no -- there's no addressee, there's  
11 no nothing.

12 Did he get this?

13 MR. LEHNER: He's going to tell us.

14 THE COURT: He's going to tell us,  
15 and if you want to point that out and stuff but  
16 my understanding is you've asked him he can  
17 follow --

18 MR. SUGGS: Is this part of the  
19 letter?

20 MR. LEHNER: I asked him whether he  
21 received this material. He testified as a  
22 medical letter is what it is. It's  
23 communications --

24 MR. SUGGS: Are you saying that  
25 this summary here is part of the letter?

1 MR. LEHNER: I'm saying he  
2 described what a medical letter is. I don't  
3 think we need to argue that now.

4 MR. SUGGS: See, you're describing  
5 this as a medical letter and I don't think this  
6 is a medical letter. It doesn't look like a  
7 letter.

8 THE COURT: You can cross-examine  
9 him on that. My concern is if you want to show  
10 them to the jury, I want to get them admitted and  
11 we can deal with if you need to voir dire to do  
12 that we can do that.

13 MR. LEHNER: The real issue we  
14 have, Your Honor, is I would certainly think I'm  
15 entitled to show the jury whether or not we admit  
16 it into evidence. I don't want to admit -- any  
17 Rule 50 motion that we may have. I mean, that's  
18 really the issue here. We're not introducing any  
19 affirmative evidence at this time. And, you  
20 know, if he's -- if he reviewed medical letters  
21 as he said he did --

22 THE COURT: Again, you don't have  
23 to offer them at this time if you don't want to,  
24 but if you want to show them to the jury, I don't  
25 want to be in the position of showing the jury

1 stuff that isn't in evidence. They should see it  
2 when it's been admitted into evidence.

3 MR. SUGGS: And my objection is I  
4 don't want there to be the implication this is  
5 actually a letter that he received when it  
6 doesn't look like a letter.

7 THE COURT: Well, you can  
8 cross-examine as to that.

9 (End of bench discussion)

10 Q (BY MR. LEHNER) Dr. Wirshing, you're  
11 looking through a series of documents now. I'll  
12 just identify them for the record while you're  
13 doing that, just so it's clear for the record.  
14 This is EL3003, EL3008, EL 2991, EL 2996, EL  
15 2990, EL3004. Those are the documents you have  
16 in front of you.

17 And Doctor, having looked at these,  
18 these are what are vernacularly referred in the  
19 medical community as medical letters, is that  
20 correct?

21 A. That's correct, yes, sir.

22 Q. And these are the kind of communications  
23 that pharmaceutical companies send to physicians  
24 like to you inform them, as we said, about  
25 matters related to their product and in these

1 particular cases these relate to body weight  
2 changes --

3 A. Glucose.

4 Q. -- glucose and cholesterol and diastolic  
5 blood pressure; is that correct?

6 A. That's correct.

7 Q. And then there's some on weight gain  
8 reduction and management; is that correct?

9 THE COURT: Mr. Suggs?

10 MR. SUGGS: Objection, Your Honor,  
11 as to the time.

12 THE COURT: Well, that --

13 MR. SUGGS: The date of these  
14 communications.

15 THE COURT: That can be established  
16 by either of you.

17 Q (BY MR. LEHNER) And these are -- you  
18 recall receiving these letters or letters similar  
19 to this from Lilly; is that correct?

20 A. Certainly.

21 Q. Certainly you do?

22 A. Certainly I recall receiving letters of  
23 similar ilk. As to exactly when, I'm not sure,  
24 but I certainly recognize them all.

25 Q. You recognize them all.

1 A. Yes, sir.

2 Q. Thank you very much.

3 So you recall receiving them at  
4 some point in time; is that correct? Before you  
5 gave your report in this litigation; is that  
6 right?

7 A. I -- I can't guarantee that it -- that  
8 it was before. I've certainly seen them before.

9 Q. And before you gave your report in this  
10 case; is that right? Before May of 2007; is that  
11 right?

12 A. I'm fairly certain I've seen them all  
13 before then.

14 Q. Thank you very much.

15 And let's just go through the  
16 titles of them.

17 A. Okay.

18 Q. The first one, EL3003, is called summary  
19 body weight changes, and that's a -- sort of a --  
20 looks like a 12-page letter, as it were; is that  
21 right?

22 A. Got it.

23 Q. Do you have it?

24 And it sets out in detail, is that  
25 correct, certain information about weight changes

<p style="text-align: right;">Page 186</p> <p>1 associated with Zyprexa; is that right?</p> <p>2 A. It does.</p> <p>3 Q. And it gives data on mean changes in</p> <p>4 weight over three years in patients treated with</p> <p>5 HGAJ -- treated with Zyprexa from the J trial; is</p> <p>6 that correct? See that on Page 5?</p> <p>7 A. Right. HGAJ trial.</p> <p>8 VENIREPERSON: Can we see it on</p> <p>9 overhead?</p> <p>10 THE COURT: No, at this point you</p> <p>11 just have to stick with the testimony. At some</p> <p>12 point that document may or may not be provided to</p> <p>13 you, but at this point I can't allow it.</p> <p>14 Q. BY MR. LEHNER: And turn to Page 7,</p> <p>15 if you will.</p> <p>16 A. Okay.</p> <p>17 Q. There you'll see there's comparative</p> <p>18 information about the effect of weight gain that</p> <p>19 is seen in Zyprexa compared to clozapine and</p> <p>20 risperidone; is that right?</p> <p>21 A. Yeah, it has a bunch of information,</p> <p>22 including the ones that you listed, yes.</p> <p>23 Q. Right.</p> <p>24 And at the end there is a summary</p> <p>25 and then following the summary there's a list of,</p>	<p style="text-align: right;">Page 188</p> <p>1 body weight changes; is that correct?</p> <p>2 A. Yes.</p> <p>3 Q. And there is a summary page, a summary</p> <p>4 of this information so that doctors could -- to</p> <p>5 get the summary of the information quickly, and</p> <p>6 that's what the first two pages are, right?</p> <p>7 A. That's correct. Very similar to the</p> <p>8 last one.</p> <p>9 Q. And then the 10 following pages are a</p> <p>10 more detailed analysis of the information on body</p> <p>11 weight changes; is that correct?</p> <p>12 A. Correct.</p> <p>13 Q. And again, there's at the end a</p> <p>14 bibliography of references that is included in</p> <p>15 this; is that correct?</p> <p>16 A. There is. Much the same bibliography as</p> <p>17 the last one, but yes.</p> <p>18 Q. Let's --</p> <p>19 A. In fact, identical.</p> <p>20 Q. Let's look at 2996.</p> <p>21 A. 2996.</p> <p>22 Check.</p> <p>23 Q. And can you read the title of that one?</p> <p>24 A. Yes.</p> <p>25 Zyprexa: Effective Long-term Treatment on Weight</p>
<p style="text-align: right;">Page 187</p> <p>1 what, 19 different journal articles that deal</p> <p>2 with this topic of weight gain associated with</p> <p>3 neuroleptic medication, antipsychotic-induced</p> <p>4 weight gain, all from various medical journals;</p> <p>5 is that correct?</p> <p>6 A. Journal articles, Lilly data file on --</p> <p>7 on file with -- with Lilly and presentations at</p> <p>8 scientific meetings. Yes, sir.</p> <p>9 Q. And there's two articles I see from --</p> <p>10 that were authored by Dr. Allison. See that?</p> <p>11 A. Yes, I know David.</p> <p>12 Q. Dr. Allison -- you know Dr. David</p> <p>13 Allison?</p> <p>14 A. Yes, sir.</p> <p>15 Q. And he's an expert that the plaintiff</p> <p>16 intends to call in this case. Do you understand</p> <p>17 that?</p> <p>18 A. I did not know David was going to be</p> <p>19 here, no.</p> <p>20 Q. And let's look at the title of the next</p> <p>21 one.</p> <p>22 A. 3004?</p> <p>23 Q. 3008.</p> <p>24 A. Check.</p> <p>25 Q. Again, a 12-page document dealing with</p>	<p style="text-align: right;">Page 189</p> <p>1 Change in Association with Changes in Glucose,</p> <p>2 Cholesterol and Diastolic Blood Pressure.</p> <p>3 Q. And this is -- this document is how</p> <p>4 long?</p> <p>5 A. This document goes to -- looks like</p> <p>6 there are two pages in this particular one,</p> <p>7 second of which goes to 5 and the first one goes</p> <p>8 to -- I guess it's -- did you copy it for me</p> <p>9 twice?</p> <p>10 Q. No, I think they're a little bit</p> <p>11 different, but these are five-page documents that</p> <p>12 deal with this topic of glucose, correct?</p> <p>13 A. So two separate five-page documents that</p> <p>14 have the same EL2996 on it, the same title.</p> <p>15 Q. And again include table of information</p> <p>16 about weight gain, cholesterol and glucose; is</p> <p>17 that correct? See the table, for example, down</p> <p>18 on the bottom of Page 2?</p> <p>19 A. Page 2? Yeah. Again, they -- the two</p> <p>20 that -- two that you've given me appear to be</p> <p>21 identical.</p> <p>22 Q. Look at 2990.</p> <p>23 THE COURT: When you say the two</p> <p>24 appear to be identical, what two by numbers.</p> <p>25 THE WITNESS: It's a 10-page -- 10</p>

1 pages that were given to me, both entitled  
2 EL2996, and both -- they appear to be five  
3 identical pages.

4 Q. They may have been Xeroxed twice, Your  
5 Honor.

6 A. So -- yeah, looks like five pages, 2996.  
7 The next one is 2990?

8 Q. (BY MR. LEHNER) Yeah.

9 A. Yes, sir. Check.

10 Q. Weight Reduction and Management. Have  
11 you had a chance to look at this one --

12 A. Yeah.

13 Q. This document is about information that  
14 Lilly's providing to physicians on how to manage  
15 weight gain and some certain strategies for  
16 reducing weight gain; is that correct?

17 A. I was actually consulted on this one.

18 Q. You were actually consulted on this one?

19 A. Yes, sir.

20 Q. And helped contribute to this  
21 information?

22 A. To the ideas, yeah. I mean, we'd had  
23 some pretty good success at helping people lose  
24 weight who had gained weight on olanzapine. So  
25 they were very interested in our work.

1 Q. And so Lilly took some of your ideas and  
2 circulated it to physicians; is that correct?

3 A. Yeah. Honestly, I'd stolen the ideas  
4 from other people, but yeah.

5 Q. Well, when you -- when you looked at  
6 these medical letters, both now -- well, when you  
7 looked at them before you gave your deposition in  
8 May and then preparing the report, again, I take  
9 it you didn't see anything in these medical  
10 letters that was inaccurate or misleading; is  
11 that correct?

12 A. I -- with respect to the data presented,  
13 no, I had no reason to believe that the -- the  
14 data presented was inaccurate. As far as the  
15 misleading, I have a -- I have a little bit  
16 different take on it. You know, there's much  
17 when you read these letters, much which blames  
18 weight gain on a whole host of other nondrug  
19 related problems, including the illness  
20 schizophrenia itself. And to me that is a little  
21 misleading. That distracts from the primary  
22 purpose of the -- of the -- of the teaching,  
23 which should be drug-related obesity. So it's  
24 not inaccurate, no, but it is a little  
25 misleading.

1 Q. Well, when -- when I took your  
2 deposition -- and you were under oath at the time  
3 and you knew you were to tell the truth, the  
4 whole truth, nothing but the truth, that's the  
5 oath you took when you took your deposition.

6 That was not your testimony when you gave your  
7 deposition, is it? Is that correct?

8 A. I have no specific recollection at this  
9 time.

10 Q. Doctor, you mentioned that one of the  
11 concerns you had was that Lilly was blaming  
12 the -- blaming schizophrenics for diabetes, and  
13 you thought that was wholly inappropriate and you  
14 thought it was insensitive; is that correct?

15 A. I did indeed.

16 Q. Yes.

17 And because you were not aware of  
18 any information that linked the disease of  
19 schizophrenia with diabetes and you thought this  
20 was a real sort of red herring; is that your  
21 sense?

22 A. That's precisely my sense.

23 Q. But you reviewed, I take it, Doctor, and  
24 indeed I saw it in materials that you reviewed  
25 again -- that you reviewed before you gave your

1 deposition under oath in this case, you reviewed  
2 the submission that Lilly made to the FDA in  
3 May 2000. It was a very large submission?

4 A. Yes, sir.

5 Q. And you had that. And I'm just  
6 wondering whether you noticed in there the  
7 various articles which discussed that the  
8 association between abnormalities and glucose  
9 homeostasis and the serious mental illness,  
10 including schizophrenia, was first described in  
11 the early part of the 20th century. Did you  
12 notice those articles?

13 A. Of course I did, and I have personally  
14 reviewed those articles.

15 Q. You said you weren't aware of any  
16 literature on the topic. That was your testimony  
17 earlier?

18 A. I'm not aware of any literature which  
19 demonstrates there is an effect -- none of that  
20 literature does.

21 Q. So you disagree with all of those?

22 A. I totally disagree with them. There is  
23 no effect aside from changes in obesity, which  
24 can contribute to the association between  
25 schizophrenia and endocrinologic perturbations.

1 Q. And so you would disagree with the  
2 Canadian Diabetes Association Which has  
3 recognized schizophrenia as a risk factor for  
4 diabetes, as well?

5 A. As a risk factor, they are wrong. They  
6 know something about diabetes, they don't know  
7 about schizophrenia.

8 Q. And you would disagree with the FDA, as  
9 well in the 2003 label change which they  
10 recognized that there may be an increased risk  
11 among this population for diabetes?

12 A. It wouldn't be the first time.  
13 Associated only with the illness schizophrenia.  
14 Not with concomitant obesity. Concomitant  
15 obesity is absolutely a risk factor.

16 Q. The disease state itself, you disagree  
17 with all those other people who believe that  
18 there may be some relationship between the  
19 disease state.

20 A. Absolutely. Absolutely. In point of  
21 fact, for females with schizophrenia, for  
22 instance, there's a good percentage of them which  
23 are underweight. They have a decidedly lower  
24 risk of diabetes than average. So in that case  
25 it would be an inverse relationship.

1 Q Now, Doctor let's take a look, if we  
2 could, to EL2399, and I believe this was an  
3 article that we've seen already.

4 MR. SUGGS: Can I have a copy,  
5 George?

6 MR. LEHNER: I think you used it in  
7 your presentation, Dave, actually.

8 THE WITNESS: Yes, you did.

9 MR. LEHNER: And this is part of  
10 the Wirshing --

11 MR. SUGGS: Oh, it's a different  
12 number. I see it.

13 Q (BY MR. LEHNER) And this is, again, an  
14 article that we've seen previously; is that  
15 correct?

16 A. It is, yes, sir.

17 Q. And your wife, again, was the lead  
18 author on that; is that correct?

19 A. Yes, sir.

20 Q. And you were the second author on this,  
21 correct?

22 A. Yes, sir.

23 Q. All right.

24 Now, you know that Lilly submitted  
25 this paper to the FDA, again, as part of the

1 July 2000 submission; is that right?

2 A. I am aware of that.

3 Q. And I want to turn to Page 361. It's  
4 the fourth page in. There were some conclusions  
5 there that I just wanted to ask you about.

6 A. Yes, sir.

7 Q. And if we go down, where it begins  
8 fourth page in, clozapine effect on weight gain  
9 was sustained. See that?

10 A. Yes, sir. It was.

11 Q. Clozapine's effect weight gain was  
12 sustained and unresponsive to interventions,  
13 whereas olanzapine's weight gain effect was  
14 somewhat reversible with dietary and other  
15 behavioral maneuvers. That was one of the  
16 conclusions you came to in this study, correct?

17 A. And I think one of the important ones,  
18 yes, sir.

19 Q. And so the kind of weight gain that one  
20 sees among these atypical antipsychotics is  
21 different in some respects; is that correct?

22 A. In my experience the weight gain with  
23 clozapine is particularly resistant to change.

24 Q. Right. And I take it this conclusion  
25 you reached in this article you repeated again in

1 a subsequent article that you and, again, your  
2 wife wrote a couple years later, where you said  
3 that our previous research demonstrated that  
4 simple behavioral measures to lose weight were  
5 effective in patients treated with risperidone  
6 and olanzapine? Do you remember that conclusion?

7 A. Absolutely. And continue to be  
8 effective to the present day.

9 Q. And one of the things that I think you  
10 talked about was -- and some have these  
11 conversations you reported having with people at  
12 Lilly was encouraging Lilly to develop some  
13 materials to help doctors deal with the issue of  
14 weight gain; is that correct?

15 A. Absolutely right.

16 Q. And that was something that your wife  
17 was particularly interested in as you were, as  
18 well?

19 A. Yeah. Precisely. Donna's had a  
20 long-abiding interest in that.

21 Q. And some of that was translated into, I  
22 think, what it was called the Solutions for  
23 Wellness program. Do you remember that?

24 A. Oh, yeah. I think -- I think that there  
25 was a good deal of our ideas that were put forth

1 in that, yes, sir.

2 Q. And Lilly prepared extensive materials  
3 for doctors on how they may intervene with  
4 patients to help them manage their weight gain;  
5 is that right?

6 A. They did, provided CME lectures,  
7 outreach, and additional mailings and that kind  
8 of stuff.

9 Q. And much of that was based on the  
10 information that you and Donna had provided to  
11 Lilly in terms of how to deal with weight gain,  
12 given your extensive experience in that; is that  
13 right?

14 A. I think much would be a bit  
15 narcissistic, but I think some of it, yes.

16 Q. Very modest. Thank you very much,  
17 Dr. Wirshing.

18 But you were very involved in  
19 communicating with Lilly how they could develop  
20 this material; is that right?

21 A. Yeah. I mean, my primary -- my primary  
22 goal was to -- was to prevent patients from  
23 having so many problems with -- with the drug. I  
24 considered these, as most problems with  
25 antipsychotics, I considered these manageable,

1 understandable, treatable. If you paid attention  
2 to them.

3 Q. Let's go back up to that article for a  
4 minute. If we can go to the fifth page in, I  
5 wanted to ask you another question about this  
6 article.

7 And you see the part there in the  
8 article that begins, novel antipsychotic drugs  
9 have superiority over haloperidol?

10 A. Not yet. Where is it?

11 Q. It's in the second -- in the right-hand  
12 column. Although -- there we are.

13 A. Yeah, I got it.

14 Q. Although novel antipsychotic drugs have  
15 superiority over haloperidol both in increased  
16 effectiveness and reduced side effects.

17 A. Yes, sir.

18 Q. That's the conclusion that you all  
19 reached when you were doing this study; is that  
20 correct, back in 2000 -- 1999?

21 A. Yes. That's correct.

22 Q. And you really haven't changed your  
23 opinion about that over time; is that correct?

24 A. No. Clozapine in particular continues  
25 to be clearly demonstrably better than

1 haloperidol.

2 Q. And you were including when you wrote  
3 about the novel antipsychotic drugs, Zyprexa as  
4 well, olanzapine; is that right?

5 A. Olanzapine and risperidone both have  
6 efficacy above haloperidol and control drugs.

7 Q. Right.

8 And you heard Dr. Hopson here  
9 yesterday, I think, or Wednesday, you were in the  
10 courtroom when he testified that they no longer  
11 use first-generation antipsychotics at the Alaska  
12 psychiatric institute; isn't that correctly?

13 A. I did hear him say that, yes.

14 Q. And you heard him say that they, in  
15 fact, use Zyprexa as a first-line treatment and  
16 some of the physicians actually prescribe it as a  
17 first-line treatment; is that correct?

18 A. Yes, I did.

19 Q. And you don't have any qualms with that,  
20 do you? You don't think they're doing anything  
21 wrong at the API, do you?

22 A. No.

23 Q. Thank you very much.

24 A. I think that that's defensible.

25 Q. In fact, you -- when you were practicing

1 at the VA, up until what, late 19 -- 2006, you  
2 would prescribe Zyprexa as a first-line  
3 treatment; isn't that correct?

4 A. I -- I continue to provide -- to  
5 prescribe olanzapine. I -- if by first line  
6 treatment you -- you refer to patients who have  
7 never been diagnosed before, it's the first time  
8 they've ever been on antipsychotic, that's a  
9 patient even somebody with my experience  
10 virtually never sees. But I do start people  
11 on -- on olanzapine but I have a drug history. I  
12 did that as we talked about in direct, I did that  
13 twice on Monday.

14 Q. Gave a -- gave a patient olanzapine --

15 A. Two patients.

16 Q. Two patients. First time they'd been  
17 prescribed an antipsychotic?

18 A. No. That's -- schizophrenia is --

19 Q. You started them on Zyprexa?

20 A. I started them on Zyprexa. They had  
21 been on other compounds previously and I reviewed  
22 their medication response profile and decided  
23 that that was the most reasonable strategy to  
24 choose at that time.

25 Q. You were weighing what potential

<p style="text-align: right;">Page 202</p> <p>1 benefits may accrue from giving them Zyprexa at  2 that time versus the risks that you know are  3 associated with the drug and you decided to start  4 them on Zyprexa; is that correct?  5 A. Of course. I -- I have -- I have  6 respect for, knowledge about and I think I know  7 what to do with the toxicities of all these  8 compounds.  9 Q. Now, and one of the reasons I think you  10 told me that you will stick with a compound that  11 you find is working with somebody is because  12 that's really the hardest thing to treat, the  13 psychosis that may be associated with that  14 disease; is that correct?  15 A. Amen. Absolutely.  16 Q. And you'll deal with whatever toxicity  17 if the drug is working; is that right?  18 A. With the exception of a few really,  19 really bad, ugly things I'll fight the devil  20 himself to keep a person on a drug -- if it's  21 working for him. Schizophrenia is the hardest  22 thing to treat. You luck out and you find  23 something that works, you hang onto it like a pit  24 bull with lockjaw.  25 Q. And, Doctor, that's really one of the</p>	<p style="text-align: right;">Page 204</p> <p>1 always find it -- you frequently can't, for all  2 patients, but when you do, it is -- it is a  3 profound emotional and professionally gratifying  4 experience.  5 Q. I mean, these are the kinds of drugs  6 that can, I think as you said, sort of free  7 people from a -- really just a horrible hell of a  8 life; isn't that true?  9 A. Potentially so. Now, the life they  10 continue to live even with effective treatment is  11 hellacious. The way they are treated by society  12 is awful. This is not to minimize the burden  13 that they have to experience, but the subjective  14 torture that they have to go through is  15 potentially dramatically released by these  16 compounds. These -- this is not cosmetic  17 psychiatry, I mean, this is real stuff we're  18 talking about.  19 Q. Real life-changing kind of thing?  20 A. Indeed. Family changing.  21 Q. Pardon?  22 A. Family changing.  23 Q. Family changing. Allows people to kind  24 of integrate back into society on occasion; is  25 that correct?</p>
<p style="text-align: right;">Page 203</p> <p>1 reasons -- when we were talking in your  2 deposition, again, that you said to me that you  3 thought these drugs, including Zyprexa at the  4 time, were a godsend; isn't that right?  5 A. As -- as I think I said, and I believe  6 that your co-counsel presented it in opening  7 arguments, I -- I continue to be just staggered  8 when you -- you know, you put your money on the  9 table, you guess right, and it fixes somebody, at  10 least in a good portion of their illness. I  11 mean, it's -- it almost brings tears to my eyes  12 every time it happens.  13 Q. I mean, I think the words you used were  14 it's the closest thing to magic you've ever  15 experienced; isn't that correct?  16 A. In my medical career. It's like you're  17 curing a rock.  18 Q. And that happens when you use Zyprexa,  19 that happens when you use any of these  20 second-generation antipsychotics; is that  21 correct?  22 A. It happens with all of the antipsychotic  23 compounds, and the dramatic thing is when  24 you -- you know, you find the one that works for  25 that particular patient. I mean, it -- you can't</p>	<p style="text-align: right;">Page 205</p> <p>1 A. Absolutely. When they -- when they  2 work, I mean, it's -- as I say, I -- superlative.  3 Q. And your decision to decide -- and the  4 kind of calculus that you go through, the  5 decision-making process that you go through, tell  6 me a little bit about that. How do you decide --  7 A. Well, I can tell you. For the last 50  8 years the selection of antipsychotic drugs,  9 because there's very little to guide you in terms  10 of, this drug clearly works better, that drug  11 clearly works better. Efficacy, you can't make  12 book on anything with the exception of clozapine.  13 Excepting that very unusual molecule. The rest  14 of them, they're all approximately the same,  15 they're within shouting distance of one another.  16 So it becomes a selection of side effects. That  17 is what has been for the last half a century's  18 time, selection of side effects. Once you go  19 through that, because the illness lasts 50 years,  20 you have lots of -- usually lots of history  21 guiding you as to what gets better and what  22 doesn't get better.  23 Q. And you know that some of these other  24 antipsychotics have very serious side effects.  25 We'll talk about Zyprexa and we've been talking</p>

1 about Zyprexa but we've seen some of the more  
2 very serious side effects associated with  
3 Risperdal. We've seen some of the very serious  
4 side effects associated with Seroquel, we looked  
5 at the label. You're familiar with some of the  
6 very serious side effects associated with those  
7 drugs; is that correct?

8 A. Yeah, it's -- it's my belief that the --  
9 the atypicals in general, with a couple little  
10 exceptions, but we're talking spectrum. I mean,  
11 everything we've talked about you can talk about  
12 with risperidone, you can talk about with  
13 quetiapine, you can certainly talk about with  
14 clozapine. It's just one of -- one of a  
15 magnitude along a continuum.

16 Q. And probably the most important thing I  
17 suspect is your clinical experience. You've seen  
18 patients that look like a patient who might be in  
19 your office and you say, you know, the patient  
20 worked on this; is that correct? I mean, your  
21 own information that you develop from actually  
22 looking at a patient and calculating what do I  
23 know about this patient compared to what I've  
24 done?

25 A. It would -- it would -- it would be cool

1 if I could -- if I could tell you a person could  
2 walk in and I go you're a quetiapine guy, you're  
3 an olanzapine guy. That -- I would love to have  
4 that ability and love to pretend that I could do  
5 that. I can't.

6 The most important thing that you  
7 have is the person themselves. That -- that  
8 brain has been exposed to various treatments and  
9 so that history and how you derive that history  
10 from a person is the most critical factor. What  
11 was their toxic experience, what were their  
12 positive experiences. So it's not really what  
13 they look like at this moment. That's part of  
14 the gemish, that's part of the mix, but it's  
15 really what's worked for you before, what hasn't  
16 worked for you before, what's hurt you before,  
17 what hasn't hurt you before.

18 Q. And that's what you're listening to a  
19 patient telling you, right?

20 A. A patient, the chart, family members,  
21 what you beg borrow or steal, whatever data  
22 source you can get, you take it.

23 Q. Doctor, let me ask you a question about,  
24 again, conversations that you've had with Lilly  
25 over the years.

1 A. Yes, sir.

2 Q. You've talked about that you had a lot  
3 of contact with people at Lilly and you've  
4 mentioned a number of the physicians and I think  
5 you mentioned Dr. Gary Tollefson and Dr. Charles  
6 Beasley, and you mentioned some others, as well.

7 A. Yes, sir.

8 Q. And you've certainly been at a number of  
9 meetings where you've met Lilly scientists and  
10 I'm sure you've met Lilly executives over the  
11 years; is that correct?

12 A. I'm not the kind of person that usually  
13 people introduce to executives, I'll be quite  
14 honest with you.

15 Q. Well, Gary Tollefson was a senior  
16 executive at Lilly.

17 A. Well, then it counts. I did meet him on  
18 occasion.

19 Q. And Charles Beasley was the chief  
20 medical officer and chief scientist at Lilly.  
21 You met him on many occasions; is that correct?

22 A. Oh, yeah. I didn't really consider them  
23 executives, but if that's what they were, that's  
24 great.

25 Q. And your wife Donna was on several

1 advisory boards at Lilly consulting with Lilly on  
2 a number of different topics; is that correct?

3 A. Mostly about this topic, but yeah.

4 Q. And you -- as we've said, are very  
5 knowledgeable about labeling and what should be  
6 in labels and what shouldn't be in labels and you  
7 mentioned your familiarity with the regulations  
8 that you were shown that the FDA has.

9 A. Yes, sir.

10 Q. And in light of all that, you never went  
11 to Lilly with any specific recommendation as to  
12 how Lilly might change its label for Zyprexa  
13 concerning either weight gain or any of the other  
14 issues that you were concerned with; isn't that  
15 correct?

16 A. I've never done that with anybody.

17 MR. LEHNER: Thank you very much,  
18 Doctor.

19 Can I have a minute, Your Honor?

20 THE COURT: You may.

21 (Discussion off the record.)

22 MR. LEHNER: That's all, Your

23 Honor.

24 THE COURT: Thank you. Mr. Suggs?

25 FURTHER EXAMINATION

1 MR. SUGGS: A few questions, Dr.  
 2 First of all, would you regard Zyprexa as an  
 3 everyday agent for primary care use?  
 4 THE WITNESS: By primary care, you  
 5 mean primary care practitioners?  
 6 Q. Yes.  
 7 MR. LEHNER: Objection, Your Honor.  
 8 He hasn't been offered as an expert on primary  
 9 care.  
 10 MR. SUGGS: He talked about how  
 11 safe the drug is.  
 12 THE COURT: I'll allow the  
 13 question.  
 14 THE WITNESS: It's my belief that  
 15 antipsychotics should not be prescribed by  
 16 anybody except those with significant familiarity  
 17 with them. Zyprexa included.  
 18 Q. (BY MR. SUGGS) Okay.  
 19 And fair to say that Zyprexa should  
 20 be used only for very severe psychiatric  
 21 disturbances?  
 22 A. Of course.  
 23 Q. Okay.  
 24 And I believe you testified when  
 25 Mr. Lehner was asked you questions that for the

1 last decades, at least, the choice of which  
 2 antipsychotic you're going to use in a person who  
 3 needs an antipsychotic drug is looking at side  
 4 effects, the side effect profile of the drug,  
 5 correct?  
 6 A. That is correct.  
 7 Q. Okay.  
 8 Now, in order for a -- for a doctor  
 9 to consider the side effect profile, would it be  
 10 fair to say that the doctor has to have adequate  
 11 warnings about the adverse effects of the drug?  
 12 A. Among many other things, but yes.  
 13 Q. Okay.  
 14 And did Lilly adequately warn about  
 15 the risks of Zyprexa?  
 16 A. No, I don't believe so.  
 17 Q. Okay.  
 18 By the way, Mr. Lehner showed you  
 19 some medical letters. Do you happen to have the  
 20 one that was numbered 2996?  
 21 A. Yes, sir.  
 22 Q. If you could turn to Page 4.  
 23 A. Yes, sir.  
 24 Q. About the middle of the paragraph  
 25 there's a sentence that starts off about midway

1 through the line, data conclude. Do you see  
 2 where I'm at?  
 3 A. Yes, sir.  
 4 Q. That sentence says, Data conclude that  
 5 nonfasting serum glucose levels are not  
 6 significantly associated with weight gain  
 7 experienced with long-term Zyprexa treatment. Do  
 8 you see that language, sir?  
 9 A. I do.  
 10 Q. Do you believe that's an accurate  
 11 statement, sir?  
 12 A. I -- it's such a tortured English  
 13 statement, it's hard to know exactly what it  
 14 means, so -- do I -- do I believe it as I  
 15 understand it? No. Of course not. I mean, if  
 16 you gain weight it's going to -- it's going to  
 17 cause a perturbation in the average person's  
 18 glucose. It just is.  
 19 Q. And so if it -- if Lilly sent this  
 20 letter to doctors, supposedly informing them  
 21 about the properties of Zyprexa, and it stated  
 22 data conclude that nonfasting serum glucose  
 23 levels are not significantly associated with  
 24 weight gain experienced with long-term Zyprexa  
 25 treatment, would that be a misleading statement?

1 A. Yes. I mean, this is -- this is from  
 2 the same data that we talked about in the -- in  
 3 that article, the same article which -- which  
 4 concluded that -- that olanzapine was not  
 5 associated with increased impaired glucose  
 6 tolerance compared to haloperidol placebo.  
 7 Q. By the way, this particular document  
 8 that we were talking about, in fact, all of them,  
 9 do any of them bear your -- your address on here?  
 10 A. No, sir.  
 11 Q. Do any of them have your name on here?  
 12 A. No, sir.  
 13 Q. Do any of them have a date on here?  
 14 A. None that I see.  
 15 Q. Did anybody sign any of these things?  
 16 A. Not in these one, two, three, four,  
 17 five, six documents I see.  
 18 Q. Is there a Lilly logo on any of these  
 19 things?  
 20 A. There's Zyprexa with a --  
 21 Q. Little copyright sign?  
 22 A. Little copyright law.  
 23 Q. Do you see a Lilly logo at all?  
 24 A. Not -- not in my brief perusal. I can't  
 25 guarantee that -- I don't think so.

<p style="text-align: right;">Page 214</p> <p>1 Q. Okay.</p> <p>2 Mr. Lehner was asking you some</p> <p>3 questions about whether there was evidence in</p> <p>4 2004 to determine whether there was a</p> <p>5 differential risk of diabetes, I think, and</p> <p>6 between the various antipsychotics. Do you</p> <p>7 remember that discussion you had with him?</p> <p>8 A. That's correct.</p> <p>9 Q. And was he talking about whether or not</p> <p>10 there was evidence to determine whether there was</p> <p>11 a differential risk in terms of a drug's specific</p> <p>12 effects on the pancreas?</p> <p>13 A. Well, the answer is, I don't know. I</p> <p>14 was having a little trouble with -- with the</p> <p>15 entire line there. It is my belief that -- that</p> <p>16 people in the FDA and the folks at that meeting</p> <p>17 were focused on the specific impact on a person's</p> <p>18 glucose regulation of the drug, irrespective of</p> <p>19 the impact on weight. That question is open to</p> <p>20 the present day, and my response to the question</p> <p>21 as I sit here today, as I sat there 10 years ago,</p> <p>22 is no. I don't believe these drugs have a direct</p> <p>23 impact on glucose regulation apart from their</p> <p>24 impact on weight.</p> <p>25 Q. Okay.</p>	<p style="text-align: right;">Page 216</p> <p>1 the impact on weight gain leading to diabetes,</p> <p>2 does that patient care when it came directly or</p> <p>3 whether there was some more direct effect that</p> <p>4 was not mediated or influenced by weight gain?</p> <p>5 A. I think -- I think -- I think you do.</p> <p>6 And here's why, because the -- when it's due to</p> <p>7 weight gain, that's going to be the focus of your</p> <p>8 treatment, but if you've got a toxic effect on</p> <p>9 the pancreas, I mean, that's a different game.</p> <p>10 Also, if you have a direct toxic</p> <p>11 effect on the pancreas there are medications that</p> <p>12 do that, that quickly leads to insulin</p> <p>13 dependence. It's a much different condition than</p> <p>14 glucose resistance. So yeah, you do -- you do</p> <p>15 care about it, because there's -- you got a</p> <p>16 different treatment for it.</p> <p>17 From the patient's perspective,</p> <p>18 yeah, you got to take meds, you got to watch your</p> <p>19 diet, you got to take care of yourself. But if</p> <p>20 a -- if a drug has a toxic effect on the pancreas</p> <p>21 that's a potentially much more irremediable,</p> <p>22 untreatable circumstance than a drug that just</p> <p>23 causes you to gain weight.</p> <p>24 Q. Okay.</p> <p>25 Do you recall Mr. Lehner asking you</p>
<p style="text-align: right;">Page 215</p> <p>1 A. So I -- I agree with the FDA if they're</p> <p>2 talking about the impact on glucose regulation</p> <p>3 directly.</p> <p>4 Q. Okay.</p> <p>5 And so what you're saying is --</p> <p>6 correct me if I'm wrong. Your opinion is that,</p> <p>7 yes, Zyprexa can cause diabetes by first causing</p> <p>8 the weight gain; is that correct?</p> <p>9 A. That -- in susceptible people who gain</p> <p>10 weight in a certain way.</p> <p>11 Q. Okay.</p> <p>12 A. Absolutely.</p> <p>13 Q. But you're not aware of scientific</p> <p>14 evidence demonstrating to your satisfaction that</p> <p>15 Zyprexa causes diabetes by some mechanism other</p> <p>16 than that; is that a fair statement?</p> <p>17 A. That is correct. There have been little</p> <p>18 bits of data here and there, little controlled</p> <p>19 experiments, some suggestion in certain animal</p> <p>20 models, but no, I don't believe they do. And</p> <p>21 I've done a good deal of work in this regard. I</p> <p>22 don't think that olanzapine does, I don't know if</p> <p>23 risperidone does. I don't think any of these do.</p> <p>24 Q. And for the patient who develops</p> <p>25 diabetes as a result of taking Zyprexa because of</p>	<p style="text-align: right;">Page 217</p> <p>1 some questions about a letter to the editor that</p> <p>2 FDA -- well, do you recall Mr. Lehner asking you</p> <p>3 about a question that certain representatives of</p> <p>4 the FDA sent to the editor of diabetes care after</p> <p>5 the consensus statement --</p> <p>6 A. Yes, sir, I do.</p> <p>7 Q. -- in which the FDA indicated that they</p> <p>8 didn't know if there was enough evidence to make</p> <p>9 a conclusion as to whether there were differences</p> <p>10 in the rates of diabetes with various</p> <p>11 second-generation antipsychotics?</p> <p>12 A. That is correct.</p> <p>13 Q. And do you know whether or not FDA has</p> <p>14 changed its position on that?</p> <p>15 A. I do.</p> <p>16 Q. And did they change their position on</p> <p>17 that?</p> <p>18 A. They have.</p> <p>19 Q. May I approach the bench, Your Honor?</p> <p>20 THE COURT: You may.</p> <p>21 (Bench discussion.)</p> <p>22 MR. SUGGS: When he asked him the</p> <p>23 questions about that FDA letter, I think he</p> <p>24 opened up the door to the 2007 --</p> <p>25 THE COURT: The consensus statement</p>

1 comes out, the letter to the editors -- the  
2 consensus statement says differential rates, the  
3 letter to the editor says we don't think there's  
4 enough evidence.

5 MR. LEHNER: Your Honor, that is --  
6 we went through this the other day. That is  
7 bootstrapping of the -- this is what the FDA knew  
8 in 2004.

9 MR. SUGGS: He's raised the  
10 implication that the FDA still till this day  
11 doesn't think there's enough evidence when this  
12 man has already testified he believes that the  
13 FDA --

14 THE COURT: I don't think the  
15 implication was raised by the question. The  
16 letter that was done. You'll have your Lilly  
17 people arm and you can ask to your heart's  
18 content what's gone on then.

19 MR. SUGGS: May I have a moment,  
20 Your Honor?

21 THE COURT: You may.  
22 (Discussion off the record.)

23 MR. SUGGS: Another line of  
24 questioning I wanted to ask you about. Sorry,  
25 Dr. Wirshing. It will be very brief.

1 Q (BY MR. SUGGS) Mr. Lehner asked you  
2 about whether the 1996 label and the 2000 label  
3 and the 2003 label, whether they were erroneous  
4 or inaccurate. Do you recall that line of  
5 questioning.

6 THE WITNESS: Yes, sir.

7 Q. Did those labels tell the whole truth?

8 A. No, sir.

9 Q. Did those labels adequately warn about  
10 the risk of diabetes?

11 A. It is my opinion the warning labels to  
12 the present moment are not adequate.

13 Q. Okay.

14 So your testimony is that the  
15 lag -- the words that are -- that were in the  
16 labels back at those time, you can't point to  
17 anything that was erroneous or inaccurate about  
18 those particular words, but you don't believe  
19 that those labels appropriately warned about the  
20 risk of diabetes?

21 A. That's absolutely true. And in  
22 particular, they didn't adequately warn about the  
23 weight gain. The single most defining  
24 characteristic of olanzapine is that it causes  
25 you to gain weight. Second, third and fourth

1 places are weight gain, weight gain and weight  
2 gain. The fact that it's not highlighted in  
3 aggressive fashion from the outset is -- is  
4 inexplicable to me.

5 Q. You talked about the utility of the  
6 second-generation antipsychotics can have. Does  
7 the fact that they have such great utility and  
8 can be so effective in relieving misery, does  
9 that relieve a drug manufacturer from adequately  
10 warning physicians about the risks that those  
11 drugs can also pose?

12 A. No. Of course, not.

13 Q. Thank you. I have no further questions.

14 THE COURT: Mr. Lehner?

15 FURTHER CROSS-EXAMINATION

16 Q (BY MR. LEHNER) I just wanted to ask  
17 you one question, Dr. Wirshing. We've heard a  
18 lot, and I think we were reminded indeed the  
19 other day that we're here talking not about  
20 numbers but really about individuals at the end  
21 of the day.

22 A. Yes, sir.

23 Q. And you would agree with me that in any  
24 one individual who's prescribed Zyprexa and then  
25 developed diabetes, we really wouldn't know

1 whether it was just a coincidence whether Zyprexa  
2 caused their diabetes, would we?

3 A. No. With certainty, no, sir, you would  
4 not.

5 MR. LEHNER: Okay.

6 FURTHER EXAMINATION

7 Q. BY MR. SUGGS: Does the use of  
8 Zyprexa increase the risk of diabetes in a  
9 population of people who are using the drug?

10 A. Demonstrably, reliably and predictably.

11 Q. And in the state of Alaska, when a  
12 population of Alaska was subjected to and used  
13 the drug Zyprexa, do you have an opinion as to  
14 whether with certainty any individuals within the  
15 state developed diabetes as a result of their use  
16 of Zyprexa?

17 A. A Predictable and definable number did.

18 Q. Okay. Thank you.

19 THE COURT: Do any members of the  
20 jury have any questions for the doctor?

21 I think you're done.

22 THE WITNESS: Thank you, Your  
23 Honor.

24 Thank you, jury.

25 THE COURT: Mr. Allen, I think we

1 can get, as I see the length of your first  
2 deposition, we certainly can get in one by 1:30.  
3 Dr. Kinon, and if we go 15 minutes late we can  
4 probably get two in?

5 MR. ALLEN: Yes, sir. As --  
6 whatever you wish. I can play Dr. Kinon right  
7 now.

8 THE COURT: Let's play Dr. Kinon  
9 and then we'll see, because I want to talk to the  
10 lawyers a little bit after the day is over about  
11 a few things, so maybe we'll just play one and  
12 then -- it appears, ladies and gentlemen, just so  
13 that you know, that this first deposition is  
14 going to be about 17 and a half minutes long, and  
15 then the rest that we have is about an hour and  
16 40 minutes, that we'll probably take up on  
17 Monday, and then the State will be done with its  
18 case, as I understand it from them. So we're not  
19 going to finish with their case today. There  
20 are, one, two, three, four, five more witnesses  
21 by -- all of whom are by video deposition that  
22 you're going to see. We'll do one today and then  
23 we'll break for the weekend.

24 MR. ALLEN: Okay, Your Honor. The  
25 State of Alaska -- can you hit the lights for me,

1 please.

2 The State of Alaska would call  
3 Dr. Bruce Kinon, a Zyprexa physician, you'll see,  
4 to the stand, by oral videotape deposition.

5 VIDEOTAPE DEPOSITION OF DR. BRUCE KINON

6 Q. (BY MR. SUGGS) Sir, would you please  
7 state your full name for the record.

8 A. Bruce Jerome Kinon.

9 Q. And what's your occupation?

10 A. Physician.

11 Q. And you're a physician employed by Eli  
12 Lilly; is that correct?

13 A. That's correct.

14 Q. Okay.

15 And what's your job title?

16 A. Medical Fellow II.

17 Q. You've been with Eli Lilly ever since  
18 1996; is that correct?

19 A. Yes, that's correct.

20 Q. For the record, this Exhibit 4517 is a  
21 six-page document. The first page has the  
22 heading Hyperglycemia/Diabetes Project. Do you  
23 see that, sir?

24 A. Yes.

25 Q. And it also makes reference to the core

1 team. Do you see that reference?

2 A. I'll need a minute to review this  
3 document, please.

4 Q. Do you recall being a member of this  
5 core team of the hyperglycemia/diabetes project  
6 back in 2000?

7 A. When this team was initially developed,  
8 I was a member of the medical component of this  
9 team.

10 My recollection of the -- the role  
11 of this group was to understand from a medical  
12 point of view the hyperglycemia and diabetes  
13 issues involved with Zyprexa and try to deliver  
14 that information to clinicians in a way that they  
15 would have the answers they needed to the  
16 questions that they were posing.

17 Q. Let me hand you what's been previously  
18 marked as Exhibit 8905. For the record, this is  
19 a two-page e-mail from Paula Trzepacz, am I  
20 pronouncing her name correct?

21 A. Trzepacz.

22 Q. You've reviewed the document, haven't  
23 you, sir?

24 A. Yes, I have.

25 Q. And this e-mail from Dr. Paula Trzepacz

1 went to both people in the medical department and  
2 in the marketing department, correct?

3 A. That's correct.

4 Q. Okay.

5 And Dr. Trzepacz was who you  
6 reported to, correct?

7 A. That's correct.

8 Q. And what was her job title, again?

9 A. Medical director.

10 Q. Dr. Trzepacz says that, quote, "the  
11 primary person respon -- will be held accountable  
12 to drive the medical marketing strategy from the  
13 medical side." Do you see that?

14 A. Yes, I do.

15 Q. Okay.

16 And then her plan was to have you  
17 be the number one guy on the issue of weight gain  
18 with Dr. Baker and Dr. Hayes being the number  
19 twos and number threes, correct?

20 A. Yes.

21 Q. And her plan also entailed you -- pardon  
22 me -- Dr. Baker being the number one guy on  
23 glucose issues, with you being the number two man  
24 and Dr. Kennedy being the number three man; is  
25 that correct?

1 A. That's correct.  
 2 Q. And was that plan, in fact, carried out?  
 3 A. Yes, it was.  
 4 Q. Okay.  
 5 So you were the number one guy  
 6 dealing with the issue of weight gain, correct?  
 7 A. I was the number one physician in the  
 8 U.S. affiliate Zyprexa team.  
 9 Q. And you were the number two guy dealing  
 10 with issues of glucose, correct?  
 11 A. That's correct.  
 12 Q. Let me show you what's been previously  
 13 marked as Exhibit 1213.  
 14 As I mentioned -- as I mentioned  
 15 before, the database that was provided to us by  
 16 Lilly states that this document was produced to  
 17 us from your files. Do you have any basis to  
 18 dispute that?  
 19 A. I've never seen this document before.  
 20 Q. Okay.  
 21 So are you denying that this  
 22 document came from your files as represented to  
 23 us by Eli Lilly?  
 24 A. I have no basis to deny or not. I just  
 25 have never seen this document before.

1 Q. The title of the document is Olanzapine  
 2 Issues Surrounding Weight Gain Diabetes and  
 3 Hyperglycemia, Key Messages; is that correct?  
 4 A. That's correct.  
 5 Q. And then about midway through the page  
 6 there's a heading that says no significant weight  
 7 gain over long term. Do you see that language?  
 8 A. I see that on this document before me.  
 9 As far as I can recollect, these  
 10 were never key messages in terms of our  
 11 interpretation of the data.  
 12 Q. Did the data that the company have show  
 13 that 30 percent of the Zyprexa users gained more  
 14 than 22 pounds over the long term?  
 15 A. The data would be consistent with that.  
 16 Q. Okay.  
 17 And if, in fact, 70 percent of --  
 18 and by the way, there were reports of people  
 19 gaining 80, 90 pounds of weight while they were  
 20 using the drug; isn't that correct?  
 21 A. There were some reports, yes.  
 22 Q. Okay.  
 23 And about 30 percent of them gained  
 24 more than 22 pounds, correct? Over the long  
 25 term?

1 A. It might -- might have been that.  
 2 Q. And 22 pounds of weight gain is a lot of  
 3 weight gain, isn't it?  
 4 A. That would be considered a significant  
 5 amount of weight.  
 6 Q. Clinically significant, correct?  
 7 A. Depends upon the -- the amount of time.  
 8 Q. Well, and also depends on the weight of  
 9 the individual, right?  
 10 A. That's correct.  
 11 Q. Because don't doctors typically think  
 12 that if you have weight gain more than seven  
 13 percent of your body weight, that that is  
 14 clinically significant?  
 15 A. That's correct.  
 16 Q. Okay.  
 17 So if you had people gaining more  
 18 than 22 pounds on the drug, for anybody who  
 19 weighed less than 300 pounds, that would be  
 20 clinically significant, correct?  
 21 A. Seven percent or greater increase in  
 22 body weight would be clinically significant.  
 23 Q. Right.  
 24 So bottom line, what your studies  
 25 were showing, that, you know, on average people

1 were going to have clinically significant weight  
 2 gain with Zyprexa, correct?  
 3 A. That's correct.  
 4 Q. Now, if you can direct your attention  
 5 back to Exhibit 1213. The last bolded item there  
 6 says summarize and disassociate olanzapine and  
 7 weight gain from diabetes and hyperglycemia. Do  
 8 you see that, language, sir?  
 9 A. Yes, I do.  
 10 Q. The goal of disassociating olanzapine  
 11 and weight gain from diabetes and hyperglycemia  
 12 was a tough goal to accomplish, wasn't it, sir?  
 13 A. I don't know specifically what is meant  
 14 by this statement in this particular document. I  
 15 did not write it and I'm not aware of it.  
 16 Q. And, in fact, in 1995, before Zyprexa  
 17 even went on the market, a group of outside  
 18 consultants warned Lilly that clinically  
 19 significant weight gain is a risk factor for  
 20 developing other medical conditions, including  
 21 type 2 diabetes. Were you aware of that, sir?  
 22 A. I was not aware of that.  
 23 Q. Okay.  
 24 Let me show you what's been  
 25 previously marked as Exhibit 1586.

1 For the record, this is a document  
2 entitled Executive Summary, The Third United  
3 states Schizophrenia Advisory Panel Meeting,  
4 dated December 10, 1995, apparently the meeting  
5 was held in San Juan Puerto Rico.

6 Now, if I could direct your  
7 attention to Page 8. At the end of the first  
8 full paragraph on that page, it states that  
9 patients who remained on olanzapine for 12 months  
10 gained an average of 24 pounds at the end of the  
11 24 months -- pardon me -- at the end of the 12  
12 months. Did I read that correctly?

13 A. Yes.

14 Q. And so is it your testimony as you -- as  
15 you sit here today that up until now you were not  
16 aware of this statement that patients who  
17 remained on olanzapine for 12 months gained an  
18 average of 24 pounds at the end of 12 months?

19 A. It's something that I'm not familiar  
20 with now, no.

21 Q. Did anybody tell that you back in 1995  
22 analysis was done which showed a statistically  
23 significant increased incidence of high glucose  
24 in Lilly's own clinical trials? Yes or no?

25 A. I'm not aware that anyone specifically

1 told me of that analysis that you're referring  
2 to.

3 Q. Okay.

4 I'm going to show you what's been  
5 previously marked as Exhibit 1605.

6 For the record, this is a computer  
7 printout dated June 19, 1995; and it's titled  
8 Treatment-Emergent Abnormal High or Low  
9 Laboratory Values at Any Time FID-MC-HGAJ acute  
10 phase.

11 Sir, do you recall that the HGAJ  
12 study that we were referring to before -- I  
13 believe you said that was the largest clinical  
14 study that was done with respect to Zyprexa?

15 A. Yes, I am.

16 Q. And what it found was that the incidence  
17 of high glucose in Zyprexa users was more than  
18 twice that in the haloperidol group, correct?

19 A. Based upon this particular analysis,  
20 which is looking at a random blood value at any  
21 time over the course of many, many days. This is  
22 one value.

23 Q. I'm going to show you what's been  
24 previously marked as Exhibit 1215.

25 For the record, Exhibit 1215 is an

1 e-mail chain starting off with an e-mail from  
2 Peter Clark on November 30, 1998, at 9:26 a.m.,  
3 and ending up with an e-mail from Robert Schmidt  
4 on December 1, 1998.

5 You've reviewed the document?

6 A. Yes, I have.

7 Q. Okay.

8 Let's start off talking about the  
9 first e-mail, at least chronologically, which was  
10 Peter Clark's e-mail to Jack Jordan, yourself,  
11 John R. Richards, with copies to Jeffrey Ramsey  
12 and Robert Schmidt regarding the  
13 Wishing/Goldstein articles.

14 A. Yes.

15 Q. Am I correct that Peter Clark was in the  
16 marketing department?

17 A. He was a marketing associate, I believe,  
18 in the product team.

19 Q. Okay.

20 And Jack Jordan was also in  
21 marketing?

22 A. Yes, he was.

23 Q. And was John Richards in marketing?

24 A. Yes.

25 Q. And Jeffrey Ramsey, was he in marketing?

1 A. I believe he was with statistics.

2 Q. And Robert Schmidt, who was he with?

3 A. Marketing on the product team.

4 Q. Okay.

5 So you're the only medical guy,  
6 apparently, who is being copied on this e-mail.

7 A. Apparently.

8 Q. Okay.

9 And the reference is to articles by  
10 Wishing and Goldstein, do you see that reference,  
11 sir?

12 A. Yes.

13 Q. If you just read on into the e-mail, it  
14 states, quote, Rob has asked me to summarize the  
15 points we would raise in response to the recent  
16 reports of hyperglycemia linked with Zyprexa use  
17 raised in the Wishing published in the Society of  
18 Biological Psychiatry, and Goldstein, soon to be  
19 published in Psychosomatics journal article. Do  
20 you see that language, sir?

21 A. I see that language, sir.

22 Q. Any, in any event, the marketing  
23 department was concerned about these reports that  
24 were being published and wanted to know what  
25 their response was going to be, correct?

1 A. As reflected by Peter Clark's e-mail, I  
2 would say yes.

3 Q. And if you drop down to the bullet  
4 points, the second and third bullet points say,  
5 use of antipsychotics may result in weight gain,  
6 and then the bullet point below that says  
7 patients who gain weight may develop insulin  
8 resistance, which may lead to hyperglycemia and  
9 diabetes, correct?

10 A. That's what the bullet points say,  
11 that's correct.

12 Q. Okay.

13 And that chain of weight gain,  
14 developing insulin resistance, which may lead to  
15 hyperglycemia, and which may then go on to  
16 diabetes, that chain that's being talked about  
17 there was the type of medical chain, if you will,  
18 that was generally accepted in the field,  
19 correct? That if you gain weight, that can lead  
20 to ultimately diabetes, correct?

21 A. I don't know specifically what Peter  
22 Clark was referring to, but in general medical  
23 knowledge, weight gain can lead in some patients  
24 to insulin resistance, which in some patients may  
25 eventually go on to be diabetes.

1 Q. Okay.

2 And after you got this e-mail back  
3 from those guys you said -- you wrote back to  
4 Peter Clark and copied the others, and you said,  
5 quote, Thank you for advising me of the response  
6 of the hyperglycemia issue. I do have concerns  
7 regarding making any connections between  
8 olanzapine-induced weight gain and hyperglycemia.  
9 Therefore, in my opinion I would not include your  
10 following statement, quote, "patients who gain  
11 weight may develop insulin resistance, which may  
12 lead to hyperglycemia and diabetes," end quote,  
13 correct?

14 A. That's correct.

15 Q. Sir, let me show you what's been  
16 previously marked as Exhibit 4532.

17 For the record, it's a seven-page  
18 document, appears to be a PowerPoint  
19 presentation, with the first page having the  
20 title Weight Change Strategy and Tactics.

21 Do you recall seeing this document  
22 before, sir?

23 A. I'll have to take a look at it and read  
24 it, please.

25 Q. Do you recall seeing this document

1 before, sir?

2 A. No, I do not.

3 Q. If I can direct your attention to  
4 Page 3.

5 There's a heading on Page 3,  
6 Zyprexa -- Zyprexa Market Research, Weight Gain  
7 and Other Side Effects, June 1999, and below that  
8 it says Key Results with several bulleted items;  
9 is that correct?

10 A. Yes, that's correct.

11 Q. And the second bulleted item is Lilly  
12 perceived as minimizing weight gain problem. Do  
13 you see that language?

14 A. Yes, I do.

15 Q. And were you informed that the market  
16 research showed that physicians believed that  
17 Lilly was minimizing the weight gain problem?

18 A. Yes, I've heard about that.

19 Q. Okay.

20 And from who did you -- did you  
21 hear that?

22 A. We -- we've heard that through market  
23 research.

24 Q. Sir, my question was when did you first  
25 learn that Lilly was perceived as minimizing

1 weight gain by physicians?

2 A. I -- I don't know exactly, but certainly  
3 around the time of 1999, perhaps 2000.

4 MR. ALLEN: Your Honor, that  
5 concludes our offer of the deposition of  
6 Dr. Kinon, but we'd also like to have admitted  
7 and published various exhibits.

8 THE COURT: Well, --

9 MR. ALLEN: What would you like me  
10 to do?

11 THE COURT: I don't want to take  
12 the jury's time at the end of the day to  
13 circulate this document so why don't you make  
14 that application on Monday morning.

15 MR. ALLEN: Yes, sir. Yes, sir.

16 THE COURT: And then we can --

17 MR. ALLEN: I gotcha.

18 THE COURT: Do that.

19 MR. ALLEN: Okay. What do you  
20 want --

21 THE COURT: Can you turn the lights  
22 on, Mark?

23 MR. ALLEN: Do you want me to go  
24 home or --

25 THE COURT: I'm going to let the

1 jury go.

2 Ladies and gentlemen of the jury,  
3 we've reached the end of our trial day and end of  
4 our trial week. As I've indicated, I believe  
5 we've got about an hour and 40 minutes of  
6 deposition testimony on the State's case and then  
7 we'll begin the presentation of Lilly's defense.  
8 Again, I would remind you, please do not discuss  
9 this case with anyone or let anyone discuss it  
10 with you. Please try to keep an open mind until  
11 you've heard all of the evidence in this case,  
12 and please do not read or watch or listen to any  
13 newspaper articles, TV articles, radio or  
14 Internet materials related to the subject matter  
15 of this litigation.

16 I'll see you on Monday at the usual  
17 time, and have a nice weekend.

18 (Jury out.)

19 THE COURT: We're -- please be  
20 seated.

21 We're outside the presence of the  
22 jury. I had four things that I just wanted to  
23 raise briefly with the parties. One, I've been  
24 meaning to but keep on forgetting to compliment  
25 the people on both sides who have been -- the

1 technical people who have been dealing with  
2 putting the documents up on the screen and the  
3 videotape transitions and stuff, and it's been  
4 some of the best, least technological problems  
5 that I've had in a trial, and I just compliment  
6 both of the -- both sides for the people that are  
7 doing that.

8 The -- we have hanging, from my  
9 recollection, AK3645, which is the document that  
10 was the article prepared by the doctors who work  
11 for Lilly that was submitted for publication that  
12 Dr. Wirshing indicated he peer-reviewed and it  
13 was rejected for publication. As I recall, Lilly  
14 wanted to look it over before they told me  
15 whether they had any objections. I don't know  
16 whether you're prepared to do that now or whether  
17 to take it up on Monday, but I just want to  
18 remind -- just note that it's a hanging exhibit.

19 MR. LEHNER: We made a note of it,  
20 and maybe we can take it up when I guess we're  
21 going to introduce some other exhibits, if you  
22 don't mind, Your Honor.

23 THE COURT: That's fine.

24 Two things. I think a couple of  
25 days ago I mentioned a question that occurred to

1 me about who decides certain issues in this case,  
2 and then provided briefing on that. I thought I  
3 said Monday, and so I just wanted to remind  
4 everybody about that.

5 The other thing is I started last  
6 night to start taking a look at the jury  
7 instructions that have been submitted, and we're  
8 going to have to start taking that up sometime  
9 towards the end of next week at some point,  
10 whether we need to shorten our trial day to do it  
11 or how we're going to do it, I don't know. One  
12 of the things I noted was that while Lilly  
13 submitted a proposed special verdict form, the  
14 State indicated that it thought that we needed to  
15 wait to see how the evidence was developing to  
16 submit the special verdict form, and so they  
17 didn't really submit one.

18 I'd like the parties to start  
19 reviewing jury instructions and special verdict  
20 forms because I don't have any doubt we'll have a  
21 few discussions about that, and particularly the  
22 special verdict form. I'd like to at least start  
23 being able to think about it sooner rather than  
24 later rather than have to -- I just want to get  
25 prepared, and I certainly expect that I'm going

1 to devote a good portion of next weekend to  
2 thinking about jury instructions, and so I just  
3 am putting everybody on notice that the sooner  
4 you can start taking a look at -- now, almost --  
5 at this point, since you know what the next four  
6 witnesses are going to say completely, I think  
7 this is a time for people to start reviewing the  
8 jury instructions that have been submitted to me  
9 and seeing if you can agree on some more or  
10 certainly give me revisions and the special  
11 verdict form, and the two issues may tie in  
12 together as to who decides certain things, as  
13 well. So if you could start doing that and if I  
14 can start getting your new proposals or  
15 additional proposals towards the end of next  
16 week, Thursday or -- as soon as I can get them,  
17 I'd appreciate that, so that we don't have to  
18 take this up as a last minute matter.

19 Those were the things that I wanted  
20 to raise. I assume that after we hear the last  
21 four video depositions we'll send the jury out  
22 and there will be some applications, but we'll  
23 take those up as they come.

24 MR. ALLEN: Would you mind, Your  
25 Honor, just because -- so I don't forget, I mean,

<p style="text-align: right;">Page 242</p> <p>1 I've got so much paper, and I have the Kinon  2 exhibits, if I can get -- ask to get them  3 admitted now and get it over with?  4 THE COURT: Certainly if you don't  5 care that we're not admitting them in front of  6 the jury, or if you want me -- that's fine with  7 me.  8 MR. ALLEN: Can I -- I'll admit  9 them and then I'll publish them on Monday, just  10 to save time.  11 THE COURT: That's fine.  12 MR. ALLEN: Paper's not my strong  13 suit.  14 Your Honor, the State of Alaska  15 offers the following exhibits --  16 THE COURT: Just let me get to the  17 right page in my notes.  18 MR. ALLEN: And I actually  19 believe -- I want to -- here we go. It's AK1110,  20 which I believe has already been admitted but I  21 just -- this came from Dr. Kinon's.  22 THE CLERK: It might have been  23 admitted today, Judge. I'm not seeing it.  24 THE COURT: Go on with the rest of  25 them.</p>	<p style="text-align: right;">Page 244</p> <p>1 able to authenticate, and I don't think there was  2 any authentication of this document during that  3 testimony. And the same thing with 4532.  4 THE COURT: Let me just start. I'm  5 going to admit AK -- AK1110 was previously  6 admitted. I'm going to admit AK1215, 8905, 4517,  7 1213 and 7668, subject, with all previously made  8 objections by Eli Lilly preserved as to those.  9 Exhibits -- what about 4532 and 5522, as to  10 authentication?  11 MR. ALLEN: Your Honor, they're  12 self-authenticating. They were produced as  13 documents from the custodial files of the  14 Defendant Eli Lilly. Self-authenticating.  15 MR. LEHNER: I think, Your Honor,  16 just because something comes from a file doesn't  17 make it self-authenticating. There's a lot of --  18 there's other procedures for making documents  19 come from files and I don't think this one, the  20 requisite foundation, is a business record or  21 whatever ground that you want to admit it.  22 MR. ALLEN: Okay. Your Honor, they  23 are -- do you want to say anything else?  24 MR. LEHNER: Go ahead.  25 MR. ALLEN: Your Honor, they are</p>
<p style="text-align: right;">Page 243</p> <p>1 MR. ALLEN: Yes, sir.  2 THE CLERK: Yes, it is admitted.  3 MR. ALLEN: I provided all these to  4 opposing counsel already.  5 Alaska asked to be admitted AK1215.  6 We also ask to be admitted A -- State of Alaska  7 AK8905. We also ask to be admitted AK4517. We  8 also ask to be admitted AK1213. We also ask to  9 be admitted AK4532. We also ask to be admitted  10 AK7668. And finally, Your Honor, we ask -- no,  11 not finally.  12 Yes, finally, we ask to be admitted  13 AK5522.  14 George, I don't know where that --  15 I don't know -- it's my paralegal's.  16 MR. LEHNER: Which is that number?  17 MR. ALLEN: 5522.  18 THE CLERK: Didn't we have --  19 THE COURT: That's hanging. It  20 still is hanging.  21 MR. LEHNER: Your Honor, with  22 respect to your previous honor. With respect  23 with certainly this last one you had a note that  24 we need to discuss that the objections were  25 overruled but the witness -- but is this witness</p>	<p style="text-align: right;">Page 245</p> <p>1 authenticated when they are produced by the  2 defendant as coming from their files. Now, if  3 they want to claim they're not a business record,  4 at least it's a record that came from their files  5 that would put them at the very least on notice.  6 So -- and if they want to get a limiting  7 instruction at this time and claim that they're  8 not their documents, they're fine. I'm not  9 suggesting that Mr. Lehner or Ms. Gussack would  10 do this, but I think it's relatively clear these  11 are Eli Lilly documents. But --  12 THE COURT: Is there any dispute  13 that they came from the Lilly files?  14 MR. LEHNER: No, Your Honor. They  15 were produced by us.  16 THE COURT: Then I'll admit them at  17 least for the purposes of notice.  18 MR. ALLEN: Thank you, Your Honor.  19 And I'll tender these to Mr. Borneman.  20 Mr. Borneman, did I do okay for your numbers?  21 THE CLERK: Beautiful. Yes.  22 MR. ALLEN: Okay.  23 THE COURT: So 4532 and 5522 were  24 produced at least for the purposes of notice.  25 MR. SUGGS: Your Honor, can I bring</p>

1 up one point?

2 THE COURT: And again, the  
3 objections to those exhibits are preserved, as  
4 well.

5 Mr. Suggs?

6 MR. SUGGS: At the beginning of our  
7 case, Your Honor directed us to tell defendants  
8 the order of our witnesses. We did that. We'd  
9 appreciate a similar instruction and direction  
10 from the Court.

11 THE COURT: I think there has been  
12 a similar instruction, but to the extent that  
13 there's any question about that, Lilly needs to  
14 do the same thing that the plaintiffs have been  
15 doing is giving them --

16 MR. ALLEN: Who are y'all calling  
17 Monday?

18 THE COURT: -- 24 hours notice of  
19 who you're going to call.

20 MR. SUGGS: It went beyond that,  
21 Your Honor. We were directed to give them the  
22 order of our witnesses --

23 THE COURT: That's right.

24 MR. SUGGS: And we have not  
25 received that yet, Your Honor.

1 THE COURT: At this point -- how  
2 soon can you do that?

3 MR. LEHNER: Your Honor, we are  
4 dealing with some travel plans in light of a  
5 change of schedule here and there but as soon as  
6 we have --

7 THE COURT: Everybody understands  
8 that, I think, and so to the extent -- as soon as  
9 you can do it, please do it, but certainly no  
10 later than -- is noon Sunday fine for this?

11 MR. SUGGS: Yes.

12 THE COURT: Noon Sunday.

13 MR. FIBICH: Your Honor, they've  
14 already indicated they're calling one witness out  
15 of order for Monday, so I presume that the State  
16 is not going to rest until such time as that  
17 person's been put on the stand and we've had the  
18 opportunity to --

19 THE COURT: Let me just ask about  
20 that. Is -- are we able to do an hour and --  
21 what's left, 40 minutes of --

22 MR. FIBICH: Representation has  
23 been made to me that this is the only day --

24 THE COURT: Just -- let me just  
25 finish, Mr. Fibich. We've got an hour and 40

1 minutes of deposition testimony, then we will  
2 have to do applications while the --

3 MR. ALLEN: They have -- admit  
4 documents.

5 THE COURT: Jury's outside. And  
6 we've got to deal with the publishing of  
7 documents and that sort of stuff, so I'm  
8 figuring --

9 MR. ALLEN: Two and a half hours.

10 THE COURT: Yeah, two and a half  
11 hours is probably safe, so that -- if we actually  
12 got started at 8:30, which so far we haven't  
13 done, but if we start started at 8:30, that would  
14 put us at about 11 o'clock. Would I be correct  
15 that if we start at 11 o'clock with this witness  
16 we're not likely to finish with this witness?

17 MR. LEHNER: No, I think we started  
18 at 8:30 with him and take him out of turn as  
19 we've talked earlier on and we can finish with  
20 him and we may be able to get all the  
21 depositions. It's going to depend on the  
22 cross-examination.

23 THE COURT: We'll see if you rest  
24 on Monday or not, I guess, depended on how long  
25 this witness takes.

1 MR. ALLEN: Yes, sir. And we're  
2 going to obviously be working on the weekend,  
3 although you've complimented my staff. We worked  
4 till 4:00 a.m. last night so I'm giving them most  
5 of the day off tomorrow. So when we rest, I may  
6 rest, Your Honor, subject to the right to then go  
7 back through the documents and make sure I have  
8 everything admitted. I hope that's permissible  
9 with the Court.

10 THE COURT: Yeah, that's fine,  
11 although if you want to take a little time -- I  
12 don't know if you can right now, but if you could  
13 and wanted to take some time with Mr. Borneman as  
14 to what's in or isn't in, that would -- I know  
15 he's been eager, and I don't know -- we don't  
16 have anything till 3:00, I think.

17 THE CLERK: Yeah, right.

18 THE COURT: So if you or your  
19 paralegals or whoever it is from both sides want  
20 to make sure where we are with exhibits and clear  
21 that up, the sooner we do that, the better I'd  
22 like it.

23 MR. ALLEN: We will, but -- we  
24 will, and I know that Mary Beth Rivers, who is  
25 back here -- I mean, we were up till 4:00 last

<p style="text-align: right;">Page 250</p> <p>1 night. My team's a little tired, I think they're  2 a little mad at me too, so we're going to give  3 them a little time off on Saturday, but I just  4 want I to know we're going to rest subject to  5 that and we're going to work with him, but I  6 really don't want to make them work any more  7 today if that's all right with the Court.  8 THE COURT: That's okay with me. I  9 just want you to be -- what I'm concerned about  10 is that we find a time where the people that are  11 going to go over with Mr. Borneman his list and  12 their lists have an ability -- have some time to  13 do that.  14 MR. ALLEN: They will.  15 THE COURT: And we might have time  16 on Monday because I have a settlement conference  17 I think at 2:30, but they could be going over  18 that stuff while I'm trying to settle whatever  19 case.  20 MS. RIVERS: Your Honor, I talked  21 with your clerk earlier, and I'm going to work  22 this weekend so that I can be completely  23 organized and take up just as little time as  24 possible with him and provide that --  25 THE COURT: I don't know if Lilly</p>	<p style="text-align: right;">Page 252</p> <p>1  2 REPORTER'S CERTIFICATE  3  4 I, RONALD L. COOK, Certified Realtime Reporter,  5 do hereby certify:  6  7 That the proceedings were taken before me at the  8 time and place herein set forth; that the  9 proceedings were reported stenographically by me and  10 later transcribed under my direction by computer  11 transcription; that the foregoing is a true record of  12 the proceedings taken at that time; and that I am not  13 a party to, nor do I have any interest in, the  14 outcome of the action herein contained.  15 IN WITNESS WHEREOF, I have hereunto subscribed  16 my hand and affixed my seal this 14th day of March,  17 2008.  18  19  20  21 _____  22 RONALD L. COOK, CRR, RMR, CCP  23 Notary Public  24  25</p>
<p style="text-align: right;">Page 251</p> <p>1 is designating who is in charge of their stuff,  2 but maybe -- maybe after the trial day on Monday  3 both sides can sit down and go through all the  4 exhibits. We may actually have all the evidence  5 in. It may not quite be done until Tuesday,  6 depending on how long the next witness goes.  7 And I take it that the State is  8 aware of who this out-of-order witness is, so  9 you're all set for who they're going to call on  10 Monday?  11 MR. ALLEN: Yes.  12 THE COURT: Anything else before we  13 break for the weekend?  14 Then have a nice weekend.  15  16  17  18  19  20  21  22  23  24  25</p>	