

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

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1 PROCEEDINGS
 2 THE COURT: We're on the record in
 3 State of Alaska vs. Eli Lilly and Company,
 4 3AN-06-05630. Counsel are present; we're out of
 5 the presence of the jury. I understand there's a
 6 motion to take up.
 7 MR. ALLEN: Yes, sir, Your Honor.
 8 Scott Allen.
 9 Can I approach?
 10 THE COURT: Sure.
 11 MR. ALLEN: Your Honor, I handed
 12 you excerpts from John Lechleiter's deposition of
 13 yesterday, along with your rulings on the
 14 deposition, as well as an e-mail that was sent to
 15 me on March 8th from Adam Michaels, with a carbon
 16 copy to Mr. Lehner, concerning the deposition,
 17 asking me to include certain portions of the
 18 Lechleiter deposition in our cuts. Included
 19 within that was 300 -- Page 365, Line 24 to 366,
 20 Line 6.
 21 Yesterday, as you recall, in the
 22 deposition we were asked to stop the tape --
 23 actually, the second time I asked the tape to be
 24 stopped. We were asked to stop the tape twice
 25 because there was an alleged error that had

1 A-P-P-E-A-R-A-N-C-E-S, continued
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1 occurred in the presentation of the testimony.
 2 Those errors occurred at Pages 110, Line 4 to
 3 110, Line 15 and 110, Line 18 to 111, Line 6.
 4 That was the first time we had to stop the tape.
 5 I -- I worked hard on getting these depositions
 6 ready.
 7 By the way, Your Honor, I -- for
 8 the record, we're going to try to present five of
 9 them today that will take less than two hours,
 10 and I was up till 3:00 a.m. to look at them, and
 11 I hope nothing happens, but anyhow. I wanted the
 12 Court to note, just for the record, because I
 13 understood the Court was upset, justifiably, if I
 14 had put something in the record. But at one --
 15 the first time it happened I was playing -- the
 16 objections by the defendants were overruled and
 17 that's why the material was in the tape.
 18 And the last time, when I stood up
 19 and stopped it, that material was included at the
 20 request of Eli Lilly. So I didn't want to have
 21 two strikes going against me today if -- if, in
 22 fact, another event occurs. And Mr. Lehner -- I
 23 like Mr. Lehner -- but he did say yesterday,
 24 "Mr. Allen has two strikes," and so I want the
 25 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

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

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

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

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

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 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 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 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 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 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, 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 HGAI study and the
8 relationship between Zyprexa and hyperglycemia?

9 A. The HGAI 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 HGAI
20 Acute Phase.

21 Are you familiar with a study known
22 as the HGAI 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.

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

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

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

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

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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

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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

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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

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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

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

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

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

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 --

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

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 cholesterols.

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 obsessionally 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

1 associated with Zyprexa; is that right?
 2 A. It does.
 3 Q. And it gives data on mean changes in
 4 weight over three years in patients treated with
 5 HGAJ -- treated with Zyprexa from the J trial; is
 6 that correct? See that on Page 5?
 7 A. Right. HGAJ trial.
 8 VENIREPERSON: Can we see it on
 9 overhead?
 10 THE COURT: No, at this point you
 11 just have to stick with the testimony. At some
 12 point that document may or may not be provided to
 13 you, but at this point I can't allow it.
 14 Q. BY MR. LEHNER: And turn to Page 7,
 15 if you will.
 16 A. Okay.
 17 Q. There you'll see there's comparative
 18 information about the effect of weight gain that
 19 is seen in Zyprexa compared to clozapine and
 20 risperidone; is that right?
 21 A. Yeah, it has a bunch of information,
 22 including the ones that you listed, yes.
 23 Q. Right.
 24 And at the end there is a summary
 25 and then following the summary there's a list of,

1 what, 19 different journal articles that deal
 2 with this topic of weight gain associated with
 3 neuroleptic medication, antipsychotic-induced
 4 weight gain, all from various medical journals;
 5 is that correct?
 6 A. Journal articles, Lilly data file on --
 7 on file with -- with Lilly and presentations at
 8 scientific meetings. Yes, sir.
 9 Q. And there's two articles I see from --
 10 that were authored by Dr. Allison. See that?
 11 A. Yes, I know David.
 12 Q. Dr. Allison -- you know Dr. David
 13 Allison?
 14 A. Yes, sir.
 15 Q. And he's an expert that the plaintiff
 16 intends to call in this case. Do you understand
 17 that?
 18 A. I did not know David was going to be
 19 here, no.
 20 Q. And let's look at the title of the next
 21 one.
 22 A. 3004?
 23 Q. 3008.
 24 A. Check.
 25 Q. Again, a 12-page document dealing with

1 body weight changes; is that correct?
 2 A. Yes.
 3 Q. And there is a summary page, a summary
 4 of this information so that doctors could -- to
 5 get the summary of the information quickly, and
 6 that's what the first two pages are, right?
 7 A. That's correct. Very similar to the
 8 last one.
 9 Q. And then the 10 following pages are a
 10 more detailed analysis of the information on body
 11 weight changes; is that correct?
 12 A. Correct.
 13 Q. And again, there's at the end a
 14 bibliography of references that is included in
 15 this; is that correct?
 16 A. There is. Much the same bibliography as
 17 the last one, but yes.
 18 Q. Let's --
 19 A. In fact, identical.
 20 Q. Let's look at 2996.
 21 A. 2996.
 22 Check.
 23 Q. And can you read the title of that one?
 24 A. Yes.
 25 Zyprexa: Effective Long-term Treatment on Weight

1 Change in Association with Changes in Glucose,
 2 Cholesterol and Diastolic Blood Pressure.
 3 Q. And this is -- this document is how
 4 long?
 5 A. This document goes to -- looks like
 6 there are two pages in this particular one,
 7 second of which goes to 5 and the first one goes
 8 to -- I guess it's -- did you copy it for me
 9 twice?
 10 Q. No, I think they're a little bit
 11 different, but these are five-page documents that
 12 deal with this topic of glucose, correct?
 13 A. So two separate five-page documents that
 14 have the same EL2996 on it, the same title.
 15 Q. And again include table of information
 16 about weight gain, cholesterol and glucose; is
 17 that correct? See the table, for example, down
 18 on the bottom of Page 2?
 19 A. Page 2? Yeah. Again, they -- the two
 20 that -- two that you've given me appear to be
 21 identical.
 22 Q. Look at 2990.
 23 THE COURT: When you say the two
 24 appear to be identical, what two by numbers.
 25 THE WITNESS: It's a 10-page -- 10

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 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 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 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

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

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

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?

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

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.

1 Q. Okay.

2 Mr. Lehner was asking you some
3 questions about whether there was evidence in
4 2004 to determine whether there was a
5 differential risk of diabetes, I think, and
6 between the various antipsychotics. Do you
7 remember that discussion you had with him?

8 A. That's correct.

9 Q. And was he talking about whether or not
10 there was evidence to determine whether there was
11 a differential risk in terms of a drug's specific
12 effects on the pancreas?

13 A. Well, the answer is, I don't know. I
14 was having a little trouble with -- with the
15 entire line there. It is my belief that -- that
16 people in the FDA and the folks at that meeting
17 were focused on the specific impact on a person's
18 glucose regulation of the drug, irrespective of
19 the impact on weight. That question is open to
20 the present day, and my response to the question
21 as I sit here today, as I sat there 10 years ago,
22 is no. I don't believe these drugs have a direct
23 impact on glucose regulation apart from their
24 impact on weight.

25 Q. Okay.

1 A. So I -- I agree with the FDA if they're
2 talking about the impact on glucose regulation
3 directly.

4 Q. Okay.

5 And so what you're saying is --
6 correct me if I'm wrong. Your opinion is that,
7 yes, Zyprexa can cause diabetes by first causing
8 the weight gain; is that correct?

9 A. That -- in susceptible people who gain
10 weight in a certain way.

11 Q. Okay.

12 A. Absolutely.

13 Q. But you're not aware of scientific
14 evidence demonstrating to your satisfaction that
15 Zyprexa causes diabetes by some mechanism other
16 than that; is that a fair statement?

17 A. That is correct. There have been little
18 bits of data here and there, little controlled
19 experiments, some suggestion in certain animal
20 models, but no, I don't believe they do. And
21 I've done a good deal of work in this regard. I
22 don't think that olanzapine does, I don't know if
23 risperidone does. I don't think any of these do.

24 Q. And for the patient who develops
25 diabetes as a result of taking Zyprexa because of

1 the impact on weight gain leading to diabetes,
2 does that patient care when it came directly or
3 whether there was some more direct effect that
4 was not mediated or influenced by weight gain?

5 A. I think -- I think -- I think you do.

6 And here's why, because the -- when it's due to
7 weight gain, that's going to be the focus of your
8 treatment, but if you've got a toxic effect on
9 the pancreas, I mean, that's a different game.

10 Also, if you have a direct toxic
11 effect on the pancreas there are medications that
12 do that, that quickly leads to insulin
13 dependence. It's a much different condition than
14 glucose resistance. So yeah, you do -- you do
15 care about it, because there's -- you got a
16 different treatment for it.

17 From the patient's perspective,
18 yeah, you got to take meds, you got to watch your
19 diet, you got to take care of yourself. But if
20 a -- if a drug has a toxic effect on the pancreas
21 that's a potentially much more irremediable,
22 untreatable circumstance than a drug that just
23 causes you to gain weight.

24 Q. Okay.

25 Do you recall Mr. Lehner asking you

1 some questions about a letter to the editor that
2 FDA -- well, do you recall Mr. Lehner asking you
3 about a question that certain representatives of
4 the FDA sent to the editor of diabetes care after
5 the consensus statement --

6 A. Yes, sir, I do.

7 Q. -- in which the FDA indicated that they
8 didn't know if there was enough evidence to make
9 a conclusion as to whether there were differences
10 in the rates of diabetes with various
11 second-generation antipsychotics?

12 A. That is correct.

13 Q. And do you know whether or not FDA has
14 changed its position on that?

15 A. I do.

16 Q. And did they change their position on
17 that?

18 A. They have.

19 Q. May I approach the bench, Your Honor?

20 THE COURT: You may.

21 (Bench discussion.)

22 MR. SUGGS: When he asked him the
23 questions about that FDA letter, I think he
24 opened up the door to the 2007 --

25 THE COURT: The consensus statement

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 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 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 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,

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.

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

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

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

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

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

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REPORTER'S CERTIFICATE

I, RONALD L. COOK, Certified Realtime Reporter,
do hereby certify:

That the proceedings were taken before me at the
time and place herein set forth; that the
proceedings were reported stenographically by me and
later transcribed under my direction by computer
transcription; that the foregoing is a true record of
the proceedings taken at that time; and that I am not
a party to, nor do I have any interest in, the
outcome of the action herein contained.

IN WITNESS WHEREOF, I have hereunto subscribed
my hand and affixed my seal this 14th day of March,
2008.

RONALD L. COOK, CRR, RMR, CCP
Notary Public

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.
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