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IN THE UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF ILLINOIS
EASTERN DIVISION

WENDY B. DOLIN, Individually and as)	
Independent Executor of the Estate of)	
STEWART DOLIN, deceased,)	
)	
Plaintiffs,)	
)	
vs.)	No. 12 CV 6403
)	
SMITHKLINE BEECHAM CORPORATION,)	Chicago, Illinois
d/b/a GLAXOSMITHKLINE, a Pennsylvania)	
Corporation,)	
)	March 20, 2017
Defendant.)	1:30 p.m.

VOLUME 4-B

TRANSCRIPT OF PROCEEDINGS

BEFORE THE HONORABLE WILLIAM T. HART, and a Jury

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(Proceedings heard in open court. Jury out.)

[REDACTED]

(Proceedings heard in open court. Jury in.)

THE COURT: All right. Thank you very much, ladies and gentlemen. Please be seated. We will resume.

You may proceed, sir.

MR. BAYMAN: Thank you, your Honor.

DAVID HEALY, PLAINTIFF'S WITNESS, PREVIOUSLY SWORN

CROSS-EXAMINATION (Resumed)

BY MR. BAYMAN:

Q. Dr. Healy, when we left off, we were talking about your Zolofit healthy volunteer article. I just want to finish that line of questions briefly.

A. Okay.

1 Q. You have that article?

2 A. No, I don't actually. I'm in the Miller deposition --
3 actually, it's over here, yes.

4 Q. If you'd pull up the article.

5 A. There's going to be a very big heap here, but all right.

6 Q. Are you ready?

7 A. Yes.

8 Q. Okay. In your article, you stated that the cases
9 described in this paper appear to have become suicidal on
10 sertraline with no easy means of explaining what happened
11 other than by invoking an SSRI-induced suicidality; is that
12 correct?

13 A. That actually sounds like it probably is correct, but you
14 haven't pointed me to the spot.

15 Q. Sure. It is -- do you see that there on the screen?

16 A. Yes. It's from where, which bit?

17 THE COURT: Page, sir, and the exhibit number, sir,
18 for the record.

19 MR. BAYMAN: Yes, sir, your Honor. It's the exhibit
20 that we've been talking about, which is Defendant's Exhibit
21 7002, and I believe -- let me see if I can find the -- I think
22 it's Page --

23 BY MR. BAYMAN:

24 Q. It's Page 27, Doctor.

25 A. Yes. Yes, I do.

1 Q. That's what you wrote, correct?

2 A. Yes.

3 Q. Okay. But, Doctor, isn't it true, one of the subjects
4 Isabel Logan, had a family member die during the course of the
5 study, and she thought that caused her extreme stress?

6 A. No. It caused her stress, but it didn't cause this
7 reaction. It didn't cause her to become suicidal.

8 Q. But isn't it true that as a result of the death of the
9 family member, she became so worn out and weary that she was
10 annoyed, miserable, unhappy, and angry on reboxetine?

11 A. I don't know that that is the case. You're testing my
12 recollection here, and I don't have her folder actually here
13 in front of me. She's on a few occasions since said very
14 clearly that she attributes what happened to her to the drug
15 rather than to the death of anyone in -- at the family.

16 Q. Turn back to that transcript that we were looking at
17 before lunch, if you would, to Page 322. Have you got that?

18 A. I have, yes.

19 Q. Okay. Look at Page 322, Line 21 to 25. The question was:

20 "In fact, she became so worn out and weary that
21 during the second week, she was annoyed, miserable,
22 unhappy, and angry during the reboxetine period."

23 Do you recall that?

24 A. I do, yes.

25 Q. And your answer was, "I do, indeed, yes, yes," correct?

1 A. Yes.

2 Q. And then --

3 A. This deposition, just so the jury is aware, this is
4 happening 16 years ago, this particular testimony that you're
5 asking me.

6 Q. I understand.

7 A. Okay.

8 Q. A lot closer in time to the Zoloft trial than today,
9 correct?

10 A. Yes.

11 Q. The healthy volunteer trial. And she -- and, in fact, by
12 the time she started Zoloft, she was under great stress,
13 miserable, angry, sad, unhappy, and annoyed, correct?

14 A. Yes, but she apparently had been exposed to reboxetine
15 beforehand, and this may well have been the cause of her
16 feeling that way rather than anything else.

17 Q. And when she started sertraline, or Zoloft, she
18 experienced nausea, lethargy, and uncomfortable symptoms,
19 correct?

20 A. She did, yes.

21 Q. And you also conceded that she had a history of lucid
22 dreaming including both sleepwalking and sleep-talking in
23 which she had what you called suicidal ideation; to this day,
24 she doesn't know whether that was a dream or whether she
25 thought about it when she was awake, does she?

1 A. No, that's not exactly the case. First of all, lucid
2 dreaming, so the jury and the Court is aware, it's a very
3 technical term, and it's something that many members of the
4 jury may have. And it can be caused by an SSRI. It's where
5 you're dreaming but you feel like you're awake, fully awake so
6 it's -- it's not a pathology as such. It's a particular kind
7 of dreaming that people can have.

8 Q. But she didn't know whether -- when she was experiencing
9 what she thought was suicidal ideation, she doesn't know
10 whether that was in her dream or whether she was awake?

11 A. No. She described it as being like being in a lucid
12 dream. She was very clear that it was happening when she was
13 awake.

14 The other point about it is, we didn't get full
15 details from her because working in a mental health unit, she
16 thought if she told us what was happening, they would lock her
17 up. It's one of the things about a healthy volunteers trial,
18 people may not volunteer everything that is happening to them.
19 They figure I might be so concerned, I'll detain them in a
20 hospital.

21 Q. Turn, if you would, to Page 324, Line 7. Have you got it?

22 A. Yes.

23 Q. The question was:

24 "Isn't it also true, Dr. Healy, that even under
25 ordinary circumstances, Isabel Logan was, quote, prone to

1 lucid dreaming including both sleepwalking and sleep-
2 talking and when she had what you call suicidal ideation,
3 to this day she doesn't know if it was a dream or if she
4 had that thought when she was awake."

5 And your answer was:

6 "Let me be absolutely clear, Mr. Wheeler. I've
7 offered to the Court both the studies. I mean, on the
8 issue of what happened, whether it was caused by Zoloft
9 or communications between the subjects, between me and
10 them, I thought the best way to handle the issue, this
11 issue was to bring the two subjects here to the court,
12 and they've agreed to be brought. Isabel Logan's
13 testimony, I believe, would reveal the fact that she
14 had recorded much less of what was happening to her and
15 has since told me much less of what was happening to her
16 because if she told anyone what had been happening to her
17 on this drug, given that she worked in a psychiatric
18 unit, she was worried about the fact that our response
19 would be that, hey, you're seriously ill, and you need to
20 be treated."

21 And the next question is: "Is the answer to my
22 question yes, Dr. Healy?"

23 And your answer was, "I think in the context that
24 I've given you, the answer is yes."

25 Did I read that correctly?

1 A. Well, no, I'm not sure you did because you left out a
2 whole load -- first of all, I want the jury to be clear that I
3 offered -- both Isabel Logan and the other healthy volunteer
4 offered to come along to court and let a jury hear what had
5 happened to them, and Pfizer declined to bring them.

6 Q. Your counsel can ask you about that on redirect. I just
7 want to know if I read your testimony correctly.

8 A. I don't know that you about because it's a bit confusing.
9 The question that I'm actually answering yes to here is a
10 little confusing.

11 Q. Doctor, you formed your views that SSRIs can cause
12 suicidality due to akathisia, emotional blunting, psychotic
13 decompensation in the early 1990s, didn't you?

14 A. That's correct.

15 Q. Yet in these -- this healthy volunteer study, you
16 didn't -- in your disclosure to these healthy volunteers in
17 1999, you said that these two drugs, reboxetine and
18 sertraline, which is Zoloft, had been selected because they
19 were as close to entirely safe as any two agents can be and
20 that they neither should detract from your daily function --
21 and that neither should detract from your daily functioning
22 significantly. Didn't you say that there?

23 A. That's the information that they were given, and that was
24 before, for instance, I had been in to GSK's healthy volunteer
25 files. So I had no reason to believe that our healthy

1 volunteers at that point were going -- that at least two of 20
2 were going to become suicidal.

3 Q. But you had already had an opinion that SSRIs can induce
4 suicidality?

5 A. Yes, but I guess I expected, like lots of other people,
6 that it would be less frequent than we found it, and also that
7 I didn't expect at that point in time healthy volunteers would
8 become suicidal. I'm not sure I'd have done the trial if I
9 had expected that, if I had a strong expectation that that was
10 likely to happen.

11 Q. Thank you, Doctor. You can put that down, and we'll move
12 to a new topic.

13 A. Okay.

14 Q. You testified last week about there being many different
15 types of data sources. And you said it's important to be
16 looking at data from all the different kinds of sources that
17 you can, correct?

18 A. Correct.

19 Q. The FDA, though, disagrees when it comes to analyzing
20 SSRIs and suicide, doesn't it?

21 A. I don't know that it does. When you talk about FDA, as
22 you I've indicated before, it's a very large beast, and the
23 safety arm of FDA, for instance, probably would agree
24 completely with me.

25 Q. Well, since the late 1990s, FDA's general approach to

1 assessing the risk of suicidality with antidepressants
2 compared to placebos has been to look at only
3 placebo-controlled clinical trials or active-controlled
4 clinical trials post-randomization and not to look at data
5 from uncontrolled trials, correct?

6 A. Well, as we've seen, it's not clear how closely FDA look
7 at anything.

8 Q. Well, but in terms of --

9 A. You put all the information up there --

10 Q. What they requested --

11 A. -- for the jury to see.

12 Q. What they've requested from the sponsors is only data from
13 placebo-controlled clinical trials or active-controlled
14 clinical trials post-randomization, right?

15 A. And that's quite different to FDA's view, you know,
16 particularly at the safety side of FDA, FDA's view as to what
17 the best way to look at risks are. It is absolutely true that
18 in the case -- in 2006, for instance, the FDA asked the
19 companies for their controlled trials. That doesn't mean FDA
20 thinks this is the only valid form of information.

21 Q. And they've been asking for control data, I think in your
22 words, since the late 1990s, correct?

23 A. I'm not sure that's my words. It certainly wasn't the
24 late 1990s. It's 2002 when we got the Davies report.

25 Q. Okay. Let's -- can we look at your deposition testimony?

1 A. We certainly can.

2 Q. I want you to turn to Tab F and ask you to go to Page 363,
3 Line 2 to 11.

4 A. I'm sorry. Page what?

5 Q. 363, 3-6-3.

6 A. Okay. Yes.

7 Q. Are you there? The question was:

8 "And you do know -- you do know, would you agree that
9 at least since the mid-1990s, FDA's general approach to
10 assessing the risk of suicidality with antidepressants
11 compared to placebo has been to look at placebo-
12 controlled clinical trials or active-controlled clinical
13 trials post-randomization and not to look at data from
14 uncontrolled trials?"

15 And your answer was:

16 "I think this is probably more the case that it was
17 in the late 1990s. I think this is when FDA got back to
18 GlaxoSmithKline, for instance, and said, 'We want you to
19 present your -- that we want the data actually presented
20 in the form broken down as you've outlined so we can see
21 the placebo-controlled data. We can see the active
22 controlled data'" --

23 THE COURT: Not so fast, Mr. Bayman. It's not an
24 exercise for the court reporter.

25 MR. BAYMAN: Yes, sir. I apologize.

1 BY MR. BAYMAN:

2 Q. "We -- that we want the data actually presented in
3 the form broken down as you've outlined so we can see the
4 placebo-controlled data, we can see the active-controlled
5 data quite apart from that, and we can see the
6 uncontrolled data separately."

7 Did I read that correctly?

8 A. You did, yes.

9 MR. WISNER: Objection, your Honor. His answer
10 actually continues on for the next two lines. I'd like it to
11 be read in its entirety.

12 MR. BAYMAN: Sure.

13 MR. WISNER: I'll read it.

14 MR. BAYMAN: Okay.

15 MR. WISNER: It goes on:

16 "Answer: This is about 1999, though. You sort of
17 mentioned to me that it was the mid-'90s. I think it was
18 more 1999, 2000. That was the watershed."

19 BY MR. BAYMAN:

20 Q. And I said late 1990s, in the late '90s.

21 A. Well, you read for the Court, mid-1990s --

22 Q. In your answer, you said late '90s?

23 A. Well, yes. I think that's a particular bias. My view was
24 the late '90s, early 2000s, and it's 2002 before GSK gave FDA
25 that kind of data. It was a lengthy interchange within GSK

1 debating on how they were going to handle these issues before
2 that.

3 Q. But certainly since -- in your view, since the late 1990s,
4 FDA has asked for data from randomized placebo-controlled
5 clinical trials and active-control --

6 A. My view is --

7 Q. -- trials --

8 A. -- I'm not sure what the data that FDA actually asked for.
9 I know the date GSK gave it was 2002, but it was on GSK's
10 radar before this that that was heading their way. This was
11 the train coming down the line.

12 Q. Well before 2006, correct?

13 A. That's before 2006, yes.

14 Q. Yes. Okay. Now, you testified on Thursday about the
15 analysis of antidepressants in suicide that FDA conducted in
16 2006 --

17 A. Yes.

18 Q. -- right?

19 I'd like you to turn to Tab 17 in your exhibit
20 notebook.

21 MR. BAYMAN: It's Defendant's Exhibit, your Honor,
22 1117.

23 BY MR. BAYMAN:

24 Q. Have you got that?

25 A. I do indeed.

1 Q. This is Hammad 2006, and it's entitled, "Suicide rates in
2 short-term randomized controlled trials of newer
3 antidepressants." It's published in the Journal of Clinical
4 Psychopharmacology, correct?

5 A. Yes.

6 Q. And you've -- you followed the statements by the FDA
7 scientists on the issue of whether there's a risk in adult
8 patients who take SSRIs, correct?

9 A. I'm not sure that this qualifies as a statement from FDA
10 scientists. This is a paper that's come out of FDA, and
11 there's been a number of different papers that have come out
12 of FDA.

13 Q. Sure, but Dr. Hammad was with FDA, correct?

14 A. He was at that time, yes.

15 Q. Right. And he published in this scientific publication,
16 correct?

17 A. He did.

18 And Dr. Laughren was also with FDA at that time
19 before becoming an expert witness for SSRI companies.

20 MR. BAYMAN: Your Honor, I move to strike that.

21 THE COURT: Yes, that may go out.

22 BY MR. BAYMAN:

23 Q. One of the authors, Dr. Laughren, you said, in fact, you
24 said last week he was one of the key people within the FDA who
25 was responsible for SSRIs and other medications used for

1 mental health purposes?

2 A. He was one of the people who was there right from the
3 start through recently, as I say, until he changed career.

4 Q. Would you turn, if you would, to the paper itself.

5 MR. BAYMAN: Your Honor, may I publish the paper to
6 the jury?

7 THE COURT: Yes.

8 MR. WISNER: Objection, your Honor. I don't believe
9 the foundation has been laid that this is one of the teachers.

10 THE COURT: All right. Yes. You have to lay the
11 foundation first. Then you have to ask him whether he
12 considers it authoritative or not.

13 BY MR. BAYMAN:

14 Q. Do you consider this publication by the FDA in the Journal
15 of Clinical Psychopharmacology to be authoritative?

16 A. No, I don't particularly. It's labeled a brief report to
17 begin with so clearly, it's not going to be authoritative.

18 Q. You don't agree that the Journal of Clinical
19 Psychopharmacology is a publication referenced and relied on
20 by people in your field?

21 A. Well, as I said, this is a brief report. Right at the
22 top, the first two words are "brief report." Secondly, the
23 journal is not among the most prestigious journals, no.

24 Q. You agree with me, though, that this brief report outlines
25 the FDA's findings in 2006, correct?

1 A. I'm not sure it outlines FDA's findings. What we're
2 getting here is an article by Drs. Hammad, Laughren, and
3 Racoosin. It's not clear that this should be called FDA's
4 findings.

5 Q. Well, it describes FDA's analysis, does it not?

6 A. I'm not sure it does describe FDA's analysis. That same
7 year, we have a different document from FDA, a much more
8 comprehensive one by Stone and Jones which doesn't give the
9 same results as you have here.

10 Q. And we'll get to Stone and Jones in a minute, but you will
11 agree with me that the FDA considered only events that
12 occurred in the post -- I mean, the FDA excluded events that
13 occurred in the post-double blind period, that is, after the
14 controlled phase of the trials were over, in order to avoid
15 confounding results from an array of treatment scenarios that
16 occurred after the end of a given trial, correct?

17 A. That may well be the case. If you ask me whether these
18 authors did that in this paper, they may well have done so
19 but -- but, you know, I'm not fully sure what your point is
20 yet.

21 Q. Well, my point is that the FDA did not consider events
22 that occurred after the controlled phase of the randomized
23 clinical trials were over, correct?

24 A. These authors appeared not to have. Whether that's a good
25 idea or not is a completely different issue, and I think it

1 may well not be such a good idea, and it's also the case that
2 they probably don't consider all trials.

3 Q. Well, Doctor, the reason that they didn't do it is because
4 patients, after the trials were over, took all kinds of
5 medicines once the SSRI treatment ended which confounds or
6 compromises the results if you count those events, correct?

7 A. And as I've outlined to the jury, in GSK trials, the
8 patient took Prozac who had been on placebo and had committed
9 suicide and was counted as a placebo suicide, and FDA were
10 probably trying to avoid just that, yes.

11 Q. They were trying to avoid confounding or compromising the
12 results because of another medication, correct?

13 A. Such as another SSRI causing patients being on a placebo
14 to commit suicide.

15 Q. And they also -- it was also the FDA's view, at least per
16 Dr. Hammad and Dr. Laughren, that rates based on pooling data
17 from both randomized control trials and open-label extension
18 trials are subject to bias and can lead to misleading
19 conclusions, correct?

20 A. Oh, absolute -- all studies including randomized control
21 trials including placebo-controlled trials are subject to
22 bias. There's a major bias in the placebo-controlled trials
23 here which is that GSK didn't look at people becoming
24 suicidal. This is a huge bias that cannot be overcome simply
25 by virtue of the fact that you've got a placebo-controlled

1 trial here.

2 Q. I don't think that was my question, Doctor. My question
3 was: The FDA said that rates based on the pooling of data
4 from both randomized control trials and open-label extension
5 trials are subject to bias and can lead to misleading
6 conclusions, correct?

7 A. And I'm saying that they're no more likely to lead to
8 misleading conclusions than placebo-controlled trials that
9 have been designed to look at the issue in question.

10 Q. Okay. I think you agreed with me there.

11 A. I'm not fully sure we're on quite the same page. We'll
12 leave it to the jury to decide.

13 Q. Sure. Exactly. So when the FDA, when it did its
14 suicidality analysis of SSRIs, it excluded events from what
15 you called the withdrawal period, correct?

16 A. Well, we're not talking about FDA here. We're talking
17 about three authors, one of whom was actively involved in
18 trying to gag other FDA authors who were raising these issues.

19 MR. BAYMAN: I move to strike that, your Honor.

20 THE COURT: It's a volunteered statement. It may go
21 out.

22 MR. BAYMAN: Thank you.

23 BY MR. BAYMAN:

24 Q. You didn't talk about this article in your direct
25 examination, correct?

1 A. That's correct.

2 Q. Now, you told the jury last week that in the FDA's
3 analysis in 2006, the two big areas were suicidal ideation and
4 behavior, correct?

5 A. Correct.

6 Q. And, in fact, you said the FDA study characterized the
7 analysis of ideation as the primary analysis, correct?

8 A. Well, no. They had a combination of ideation and
9 behavior, I believe, as the primary outcome measure.

10 Q. You don't --

11 A. Is that not correct?

12 Q. You don't recall saying that ideation was the primary
13 analysis?

14 A. I remember us talking about primary. I thought -- well,
15 certainly what I intended to say was a combination of ideation
16 and behavior rather than behavior being the primary analysis
17 or outcome measure.

18 Q. No, I think you said ideation was the primary.

19 A. Perhaps I did. We'd have to have a look at a transcript,
20 and I may have been speaking too quickly for the court
21 reporter to get it all. I'm impressed that you have a
22 transcript from last week already.

23 Q. I'm going to show you the transcript at Page 436 at Line
24 18 to 24.

25 A. Okay.

1 MR. WISNER: Your Honor, I'm not entirely sure what
2 the purpose of this is. I think he just explained what the
3 fact was. This is an improper impeachment.

4 THE COURT: Well, we'll let him read it, and then
5 we'll hear what the question is, sir.

6 MR. WISNER: Okay.

7 THE WITNESS: What do you want me to turn to?

8 BY MR. BAYMAN:

9 Q. 436, Line 18 to 24.

10 A. Yes.

11 Q. You were asked, "Now, the FDA study characterizes the
12 analysis" --

13 THE COURT: What -- ask him a question, sir.

14 BY MR. BAYMAN:

15 Q. Okay. Did you not say that ideation was the primary
16 analysis of done --

17 A. Well, I don't think I did. Mr. Wisner says that, and I
18 think he may have made a mistake to some extent. Certainly,
19 my understanding at that point was that ideation and behavior,
20 a combination of the two rather than behavior on its own was
21 the primary analysis.

22 Q. But when he asked you the question, "Now, the FDA study
23 characterizes the analysis of ideation as a primary analysis;
24 is that right," you said, "yes," correct?

25 A. Well, it may well have been that this came up in the pages

1 beforehand and at this stage, we're into using shorthand, as
2 it were.

3 Q. And when he asked you, were behaviors the secondary
4 analysis, you said yes, correct?

5 A. Yes, that's correct.

6 Q. All right.

7 A. But it can still be correct with ideation and behavior
8 being the primary analysis.

9 Q. Okay. So you would agree with me, the primary outcome in
10 the FDA's analysis was not just suicidal ideation but was
11 completed suicide, suicide attempt, preparatory acts towards
12 imminent suicidal behavior, and suicidal ideation, correct?

13 A. Correct.

14 Q. Thank you, Doctor. Now, you told the jury on Thursday
15 that one of the ways GSK supposedly hid the risk was through
16 what you called coding maneuvers.

17 A. Yes.

18 Q. But in the FDA's analysis, the FDA didn't rely on the way
19 the manufacturers or the clinical investigators originally
20 coded suicide-related events, correct?

21 A. When FDA came to analyze the data in 2006, they asked the
22 companies to produce the case reports from different patients
23 using a different approach. They weren't asking for coding
24 terms like emotional lability, that's correct.

25 Q. In fact, the FDA asked manufacturers to use a specific set

1 of search terms to find events that might relate to suicide,
2 correct?

3 A. Correct.

4 Q. Uh-huh. And they asked for both what we call preferred
5 terms as well as verbatim terms, correct?

6 A. Correct.

7 Q. And the FDA also told the manufacturers to -- also
8 searched the comment fields within the trial so if
9 investigators made comments, those would be searched, also,
10 correct?

11 A. Well, it depends. In the case of any clinical record that
12 GSK has, for instance, there may be several different clinical
13 records on the same patient. Like if one of the jurors was in
14 their trial, there might be four completely different clinical
15 report forms or sets of material on that juror, and GSK may
16 well have searched one of those rather than all four.

17 Q. But -- and when -- Dr. Healy, when GSK ran the searches,
18 it didn't just immediately share the results with FDA; in
19 fact, GSK sent the entire case file for each patient to
20 independent expert reviewers at Columbia University, correct?

21 A. It may well have done so, but when I say -- hang on. No,
22 I would disagree with you. I am pretty certain GSK did not
23 send the entire case file.

24 Q. That's your understanding?

25 A. That will be my understanding based on my experience of

1 GSK's case files.

2 Q. And the Columbia experts reviewed the information GSK
3 provided with each event and made an independent determination
4 as to which category from a list of categories the event
5 should go in, correct?

6 A. Correct.

7 Q. And once the experts made that -- at Columbia made that
8 classification, Dr. Posner and colleagues, GSK sent that
9 information along with the details of the events to the FDA
10 for analysis, correct?

11 A. Correct.

12 Q. You told the jury there's a wide body of data, and anybody
13 who's trying to work out what's actually going on, they need
14 to take it all into account. We talked about that this
15 morning, correct?

16 A. Well, I think that would be self-evident to the jury, if
17 no placebo-controlled trial has been designed to look at the
18 question of, can people become suicidal on Paxil, then anybody
19 who is going to look at this question wants to look at
20 material other than the placebo-controlled trials.

21 MR. BAYMAN: I want to turn, if you will, in your
22 exhibit book to Tab 11-D -- which is Joint Exhibit 13, your
23 Honor, that's already in evidence.

24 THE COURT: This is Joint Exhibit what?

25 MR. BAYMAN: 13, your Honor.

1 THE COURT: Okay.

2 MR. BAYMAN: It's behind-- it's 11 and then capital
3 letter D.

4 THE COURT: Okay. Gotcha.

5 MR. BAYMAN: Can you put the first page of this
6 document up?

7 BY MR. BAYMAN:

8 Q. This is the FDA's clinical review relationship between
9 antidepressant drugs and suicidality in adults, correct?

10 A. Correct.

11 Q. And you're familiar with this document?

12 A. I am, yes.

13 Q. Turn, if you would, to Page 13-024.

14 A. Yes.

15 Q. Got that?

16 A. I have indeed.

17 Q. Now, this is -- we established a couple minutes ago that
18 the primary outcome measure of the FDA analysis was completed
19 suicide attempts, preparatory acts, and ideation all combined,
20 correct?

21 A. Correct, yes.

22 Q. All right. And this -- and in Table 15 here that you're
23 looking at, and it's on the screen, that presents the results
24 of the FDA's analysis, doesn't it?

25 A. Correct, yes.

1 Q. And you didn't show Table 15 to the jury last week,
2 correct?

3 A. Mr. Wisner didn't show Table 15, that's correct.

4 Q. And we see that as we look at that, for paroxetine, the
5 odds ratio is .93, correct?

6 A. Correct.

7 Q. And you told the jury anything over 1 is an indication of
8 risk, correct?

9 A. I told the jury repeatedly that drugs that can cause a
10 problem can have an odds ratio of less than 1.0.

11 Q. But the finding on the primary outcome for paroxetine is
12 less than 1, you would agree with that?

13 A. Yes, and I've indicated that I believe a drug that causes
14 people to become suicidal can have an odds ratio of less than
15 1.0. I'm happy to explain exactly how it happens if you want.

16 Q. No. We've heard that. But this means the risk of suicide
17 attempts, preparation, and ideation was lower on paroxetine
18 when compared to the placebo, correct?

19 A. No, it doesn't mean that at all. What you're doing is the
20 data that FDA has which is the data from a select group of
21 trials having been boxed in by all the companies into asking
22 for certain trials and not others, this is what the data comes
23 out as. When you analyze this behavior on its own as we see,
24 we get a very different effect.

25 MR. BAYMAN: Your Honor, I move to strike "having

1 been boxed in by the companies." There's no --

2 THE COURT: No, that may stand.

3 BY MR. BAYMAN:

4 Q. The confidence interval here by your standards is very
5 narrow, .62 to 1.42?

6 A. That's correct, yes.

7 Q. And compared to the other SSRIs that paroxetine had the
8 third lowest odds ratio in this chart, correct?

9 A. On that chart, yes, correct.

10 Q. Okay. And I think the finding is based on the -- we
11 looked at the patient, the number of patients earlier. That
12 finding is based on 8,728 patients on paroxetine and 7,005
13 patients on placebo. Do you remember that?

14 A. Yes. I suspect there's a lot of other paroxetine patients
15 that aren't there.

16 Q. You told the jury last week, and I recalled it at the time
17 because I wrote it down, that the paroxetine data in the FDA
18 analysis may have been unusually reliable. Do you remember
19 that?

20 A. Oh, I thought, yes, in some respects, it was, but there's
21 other aspects to that question that I'd be happy to elaborate
22 on if you want, which is when FDA asked --

23 Q. I'll let your counsel do that on redirect.

24 A. Fine. Okay.

25 Q. None of the SSRIs had a statistically significant

1 association with suicidal thoughts or behavior in the FDA's
2 2006 adult analysis?

3 A. Yes, but we know that I wouldn't use the term "statistical
4 significance" there anyway.

5 Q. You also told the jury that based on the data from this
6 analysis, the SSRIs as a group cause a problem, correct?

7 A. Based on the data -- yes. It's in the Stone and Jones
8 report. When you look at behavior, they -- these drugs do
9 cause a problem, yes.

10 Q. All right. Let's look at the finding for all SSRIs. In
11 the line for all SSRIs, do you see that right there?

12 A. Yes.

13 Q. That odds ratio is .86, correct?

14 A. Correct.

15 Q. And the 95 confidence interval is .69 to 1.06, correct?

16 A. That's correct.

17 Q. And that's another narrow --

18 A. Yes.

19 Q. -- window, correct?

20 A. It is, yes.

21 Q. And the FDA found no increased risk between SSRI
22 medications when they're grouped together on the primary
23 outcome of suicidal thoughts and behavior in their adult
24 analysis, correct?

25 A. That's correct, yes.

1 Q. And the FDA also found no association between all
2 antidepressant medications that they looked at on the primary
3 outcome of suicidal thoughts and behavior, correct?

4 A. Correct.

5 Q. And that finding by the FDA was based on 52,000 patients
6 on antidepressants and over 45,000 placebo patients. Can we
7 pull that table up, Table -- Table 7, Dr. Healy, which is at
8 Page 13-18. Do you see those numbers at the bottom?

9 A. I do, yes.

10 Q. So you agree that the finding was based on 52 -- over
11 52,000 patients on antidepressants and over 45,000 on placebo?

12 A. As I've indicated to you earlier, I think this means it's
13 a particularly messy data set. It's not a good data set.

14 Q. The FDA in this report which you're familiar with
15 discusses the results, correct?

16 A. It does, yes.

17 Q. And that begins at Page -- if you would turn to again the
18 same exhibit, Joint Exhibit 13, to Page 13-044.

19 A. We probably should say, when you say "FDA discusses," it's
20 Drs. Stone and Jones. To say "FDA" may be a little misleading
21 here.

22 Q. Well, they did the -- they're FDA employees, correct?

23 A. They are FDA employees, and I'm sure there were others
24 within FDA who would have framed the issues differently.

25 Q. But they issued the report, correct?

1 A. They did, yes. So we're talking about the Stone and Jones
2 report --

3 Q. Yes.

4 A. -- rather than FDA's corporate view.

5 Q. And they did the analysis, correct?

6 A. They did, yes.

7 Q. Okay. I want to turn you then to -- to Page 44, Section
8 5.2.

9 A. Yes.

10 Q. In the first sentence, FDA -- let's go ahead and highlight
11 that, please.

12 FDA said, the pooled estimate -- or Stone and Jones
13 of the FDA said, "The pooled estimates of studies of the adult
14 population support the null hypothesis of no treatment effects
15 on suicidality." Did I read that correct?

16 A. Well, that's on suicidality, yes. This is not on suicidal
17 behavior as such.

18 Q. Another way of saying that is the FDA concluded that it
19 doesn't believe use of antidepressants increased the risk of
20 suicidality in its analysis?

21 A. I don't know that I'd agree with that.

22 Q. Okay. What's a null hypothesis?

23 A. Well, a null hypothesis is a thing that was introduced by
24 Fisher. And FDA, in the analysis here, are not applying it in
25 the way Fisher would have applied it. He would not have

1 applied statistical significance tests to the data you have
2 here.

3 Q. And the FDA further goes down to say later at the end of
4 that paragraph:

5 "The net effect appears to be neutral on suicidal
6 behavior but possibly protective for suicidality for
7 adults between the ages of 25 and 64 and to reduce the
8 risk of both suicidality and suicidal behavior in
9 subjects aged 65 years and older."

10 Did I read that correctly?

11 A. You did. It's very -- I mean, it's hard to know what the
12 right tone of voice would be for an FDA person writing this
13 talking about a complex situation where, for example, the data
14 from 45 to 55-year-olds was exactly the same as
15 under-25-year-olds.

16 Q. You didn't tell the jury last week about these findings,
17 did you?

18 A. I didn't conceal them. I would have been awfully happy
19 for the jury to get the full text of the entire document.

20 Q. You talked -- you talked about the findings on the
21 secondary end point but not on the primary end point?

22 A. Well, as we explained, I think it makes no sense to talk
23 about primary and secondary in this context.

24 Q. You showed the jury --

25 MR. BAYMAN: Pull up Table 16.

1 THE COURT: Page?

2 THE WITNESS: 36, your Honor.

3 MR. BAYMAN: 36, your Honor. Sorry.

4 MR. WISNER: Your Honor, it's 26 just in case you're
5 looking for it.

6 THE WITNESS: Oh, sorry. 26.

7 MR. BAYMAN: Dr. Healy and I were both had the wrong
8 page. It's 26.

9 THE WITNESS: Maybe we're just shortsighted. I saw
10 36 rather than 26.

11 BY MR. BAYMAN:

12 Q. You did show the jury this table, correct?

13 A. Yes.

14 Q. Okay. And that's titled, "Suicidal behavior risk for
15 active drug relative to placebo, preparation or worse, adults
16 with psychiatric disorders, by drug and drug class."

17 A. Correct.

18 Q. And that table doesn't show the primary outcome of the
19 analysis but rather the secondary outcome, correct?

20 A. Well, what has been termed the primary outcome, yes.

21 Q. What the FDA terms the primary outcome?

22 A. Yes.

23 Q. And the 2.76 that you told the jury about, that appears in
24 Table 16 --

25 A. It does.

1 Q. -- for paroxetine, correct?

2 A. Correct.

3 Q. And then I would turn you, if you would, Doctor, back to
4 Page 23.

5 MR. BAYMAN: Pull up, if you would, Roger, that.

6 THE WITNESS: 23?

7 BY MR. BAYMAN:

8 Q. Yeah, the bottom of 23 below the table.

9 A. All right. Yes. Yes.

10 Q. The FDA explicitly stated, though, even though some of the
11 results in Table 16, which we just saw, were statistically
12 significant, the significance of these findings must be
13 discounted for the large number of comparisons being made,
14 correct?

15 A. Yes.

16 Q. And you didn't mention that last week to the jury, did you?

17 A. Well, I took pains to say that I think people shouldn't be
18 putting undue weight on statistical significance in the first
19 instance, but I've also made it clear that discounting a fact
20 because of multiple comparisons is rather avoiding the
21 elephant in the room which these trials were designed not to
22 find the problem. So applying fancy statistical tests is
23 really a bit of a waste of time.

24 Q. You've attended FDA advisory committee meetings that have
25 been open to the public, correct?

1 A. I have, yes.

2 Q. And you know that with respect to this analysis, the FDA
3 publicly stated, while its analysis showed an increased risk
4 of suicidal thinking in behavior, suicidality in young adults
5 age 16 to 24 --

6 THE COURT: What are you reading from now, sir?

7 MR. BAYMAN: That's what the FDA said at the meeting,
8 your Honor.

9 THE COURT: Where are you reading? Tell me what
10 you're reading.

11 MR. BAYMAN: Tab 18 in the notebook. It's the FDA
12 news release, Defendant's Exhibit 468.

13 BY MR. BAYMAN:

14 Q. Do you want to turn to that, Doctor?

15 A. Yes. I think I'm here.

16 Q. You're familiar with that news release, correct?

17 A. This is, FDA proposes new warnings about suicidal linking
18 behavior in young adults who take antidepressant medications.
19 I'm sure I've seen this. I'm not sure, if you'd ask me about
20 it, that I would have been able to date it but...

21 Q. You've been actually asked questions about this in some of
22 your depositions, correct?

23 A. I may well have been, yes.

24 Q. Okay. And this was an announcement that the FDA put out
25 to doctors and to the public following the adult analysis,

1 correct?

2 A. Correct.

3 Q. And the FDA said that while its analysis showed an
4 increase or risk of suicidal thinking and behavior,
5 suicidality in young adults age 16 to 24, the scientific data
6 did not show the increased risk older -- in adults older than
7 24?

8 MR. WISNER: Objection, your Honor. Hearsay.

9 THE COURT: Your objection comes a little late.

10 THE WITNESS: Can you point me to just the spot
11 you're reading from?

12 THE COURT: Just a minute, sir.

13 MR. WISNER: I didn't want to interrupt. I'm sorry,
14 your Honor.

15 THE COURT: This document is in evidence?

16 MR. WISNER: No.

17 MR. BAYMAN: No, sir. It's an exhibit, but it's not
18 a joint exhibit.

19 THE COURT: Have you offered it in evidence? Have
20 you offered it?

21 MR. BAYMAN: I have not yet, your Honor, no.

22 THE COURT: Well, you can't read from a document
23 that's not in evidence, sir.

24 MR. BAYMAN: I would --

25 THE COURT: It will be stricken.

1 MR. BAYMAN: Well, your Honor, then I'll move for
2 admission of the document --

3 THE COURT: All right.

4 MR. BAYMAN: -- and its indicated exception to the
5 hearsay rule because it relays the results of a government
6 investigation under Rule 803.

7 MR. WISNER: I object. This is hearsay. They have
8 not laid sufficient foundation for that exception. This is a
9 press release. This is not the actual analysis which we were
10 looking at. This is the definition of an out-of-court
11 statement being offered for the truth of the matter asserted.

12 MR. BAYMAN: He can rely on hearsay. He's an expert,
13 your Honor. He said he was familiar with it, and he was at
14 the meetings.

15 THE COURT: You could have brought this to my
16 attention earlier. The objection at this point is sustained.

17 MR. BAYMAN: Okay. I'll move on.

18 BY MR. BAYMAN:

19 Q. In 2006, GSK also did an analysis of adult suicidality
20 that you told the jury about last week, right?

21 A. Yes. That was brought into the frame.

22 Q. And you told the jury about the 6.7 odds ratio on the
23 secondary end point in the subset of MDD patients, correct?

24 A. Yes. I hope I've conveyed that while it's a high odds
25 ratio, I don't place all the weight on just that. The simple

1 fact that there's such a clear signal, whatever you -- you
2 know, you call the odds ratio isn't a thing that I would be
3 concerned about.

4 Q. There were also results for other groups of patients
5 besides those with MDD in that analysis, correct?

6 A. Correct.

7 Q. You didn't tell the jury about those other analyses, did
8 you?

9 A. No.

10 Q. And Mr. Wisner didn't ask you about any of the other
11 results, correct?

12 A. He didn't. I mean, I was following what I was asked. I
13 didn't go out of my way to tell the jury things that I wasn't
14 being asked about.

15 MR. BAYMAN: I'm going to have you look at Tab 11-C
16 which is the GSK 2006 submission. It's Defendant's Exhibit
17 103.

18 And it is, I think, a more complete version of what
19 was, your Honor, admitted as Plaintiff's Exhibit 9.

20 THE COURT: Okay. We're at Tab 11, did you say?

21 MR. BAYMAN: Yes, sir. 11-C.

22 THE COURT: 11-C?

23 MR. BAYMAN: Yes.

24 THE COURT: All right. You may proceed.

25 MR. BAYMAN: And your Honor, at this point, I would

1 move for admission of Defendant's Exhibit 103 which, as I say,
2 is -- it's the same document as Plaintiff's Exhibit 9. It's
3 just a more complete copy.

4 THE COURT: All right. You may proceed.

5 MR. WISNER: No objection.

6 (Defendant's Exhibit 103 received in evidence.)

7 BY MR. BAYMAN:

8 Q. Let's look at the cover letter on April -- April 5, 2006.
9 This is from GSK's senior director of regulatory affairs,
10 Barbara Arning, to Dr. Laughren at the FDA, correct?

11 A. It's certainly from her. Is it to Dr. Laughren?

12 "Dear" --

13 Q. "Dear Dr. Laughren."

14 A. "Remy" is what I'm looking at. The covering letter.

15 Okay. You should have directed me to Page 2.

16 Q. Excuse me.

17 A. Okay. Fine. Okay.

18 Q. The very first paragraph, it says:

19 "Reference is also made to our submission of March 8,
20 2006, which presided -- provided results from the first
21 portion of a comprehensive meta-analysis to evaluate the
22 risk of suicidality in placebo-controlled paroxetine
23 trial in adults with major depressive disorders."

24 Do you see that?

25 A. Correct, yes.

1 Q. What happened was that GSK did the MDD analysis first and
2 then submitted it to the FDA in March of 2006, correct?

3 A. In or around this time, GSK had analyzed more than MDD,
4 but that's what I think you're going on to tell me or to tell
5 the jury, isn't it?

6 Q. Well, but it did MDD first and it submitted first, then it
7 ran the analyses of the other disorders, correct?

8 A. I'm not absolutely clear about this. I think GSK were
9 trying for a good deal of time during 2005 to submit both MDD
10 and IBDD together, for instance.

11 Q. The jury will hear from a GSK witness about the sequence,
12 but we do know that the result you discussed with the jury,
13 the 6.7, was actually presented in this March --

14 A. Yes.

15 Q. -- submission.

16 A. Yes.

17 Q. And, in fact, to my earlier point, as of April 5, GSK says
18 it is submitting the results on MDD and now is submitting the
19 results on the other indications because it had already
20 submitted on MDD. If you look at -- let's pull up that in the
21 submission.

22 A. Yes.

23 Q. Do you see that in the submission, "we are providing
24 updated results?"

25 A. Yes. Okay. Yes.

1 Q. On the screen.

2 A. Yes.

3 Q. So they're submitting a new analysis from the non-MDD
4 paroxetine trials?

5 A. Correct.

6 Q. And then you mentioned intermittent brief depression a
7 minute ago and some other disorders. They're presenting the
8 data for paroxetine being studied for these disorders, correct?

9 A. Correct.

10 Q. Okay. And it lists there about ten different illnesses
11 for which paroxetine has been studied including anxiety
12 conditions, correct, if we scroll down further?

13 A. Yes.

14 Q. Okay. And, in fact, if we -- if we go to the next
15 paragraph, we see that not only is GSK providing data but it's
16 submitting new warnings to go into the label reflecting this
17 data, correct?

18 A. That's what they appear to be saying, yes.

19 Q. And it's -- it also says that they're going -- they're
20 submitting a draft Dear Healthcare Professional letter for
21 review by the FDA --

22 A. Yes.

23 Q. -- that it's considering sending to doctors to inform them
24 of the data?

25 A. Yes.

1 Q. And it asked in the letter for a teleconference with the
2 FDA to discuss these items, correct?

3 A. They may well have done so, yes.

4 Q. Okay. Let's turn now to -- you're aware that GSK
5 submitted what's called a briefing document along with this
6 submission, if you turn to Page 811?

7 A. Yes.

8 Q. That is the --

9 A. I'm sorry. 811 is what you want me to turn to?

10 Q. Yes. PAR811, I'm sorry --

11 A. Okay.

12 Q. -- in the lower right corner.

13 A. Yep.

14 Q. Okay. Can we blow that up?

15 That's the first page of the briefing document
16 correct?

17 A. Yes.

18 Q. And it's titled, "Paroxetine adult suicidality analysis:
19 Major depressive disorder and non-major depressive disorder"?

20 A. Correct.

21 Q. Look, if you will, at the clinical summary section which
22 is on Page 6, Page 6 of this document, which corresponds with
23 PAR9816. Do you see that?

24 A. I do, yes.

25 Q. Okay. The first bullet point under "Clinical summary,"

1 this is under "Major depressive disorder," correct?

2 A. Correct.

3 Q. And it says, "On the primary end point of definitive
4 suicidal behavior or ideation, there was no statistically
5 significant difference between adults with MDD treated with
6 paroxetine compared to placebo," correct?

7 A. Well, I just repeat, first of all, there's no good grounds
8 for saying this is the primary end point and, secondly, no
9 statistically significant end stage, as the jury should be
10 able to guess at this state, is not important to me, and the
11 third thing I would throw in is that this is not necessarily
12 all of GSK's trials.

13 Q. GSK's analysis, just like the FDA, did have a primary end
14 point, though, correct?

15 A. This is an arbitrary thing, and it could have been the
16 other way around. They could have decided to put suicidal
17 behavior as the primary end point.

18 Q. But what -- the primary end point was suicides, suicide
19 attempts, and suicidal ideation?

20 A. Yes, but there's no good grounds for that. If I'm trying
21 to persuade the jury to accept, you know, my view about a
22 particular thing, it will be useful for me to provide criteria
23 for why I'm picking one option rather than the other rather
24 than to have an arbitrary decision. This is an arbitrary
25 decision.

1 Q. Was it an arbitrary decision by the FDA to pick the end
2 point that they picked?

3 A. Yes, I think it was. It may have just been following the
4 lead they got from companies which FDA has often done but
5 without -- they haven't provided good criteria for saying this
6 should be the primary end point rather than that.

7 Q. But suicides, suicide attempts and suicidal ideation,
8 that's all suicide-related events, is it not?

9 A. Yes, but I think it's designed to hide the problem, as
10 I've indicated earlier. Completed suicides and suicidal
11 behavior are much firmer end points.

12 Q. On --

13 THE COURT: Excuse me, Doctor. Is it your
14 understanding that the data related only to behavior -- or
15 ideation and not to actual suicide?

16 THE WITNESS: Well, no. Your Honor, in the case of a
17 person who commits suicide, there will be a suicidal act
18 that's lethal --

19 THE COURT: Right.

20 THE WITNESS: -- and there would be suicidal ideation
21 beforehand.

22 THE COURT: But what does this include?

23 THE WITNESS: Well, this includes ideation plus acts
24 plus completed suicides, but as I've spent some time trying to
25 explain on Thursday, acts and completed suicides are a much

1 firmer end point than ideation. And there's much more
2 ideation. So when you throw ideation in, it's rather like
3 adding Study 057 into the MDD studies, which is one of the
4 maneuvers GSK adopted.

5 MR. BAYMAN: Your Honor, I move to strike that. We
6 didn't -- we never talked about 057.

7 THE COURT: Yes. That will go out.

8 MR. BAYMAN: Thank you.

9 BY MR. BAYMAN:

10 Q. And on this primary end point, in MDD patients, GSK
11 reported no statistically significant difference between
12 paroxetine and placebo patients, correct?

13 A. As I've indicated, GSK did say it was not statistically
14 significant. And if they're pleased with that, I'm happy for
15 them, but I wouldn't have used those terms.

16 Q. The confidence interval goes below 1, does it not?

17 A. It does.

18 Q. And then in the next bullet under the -- looking there,
19 the next bullet down below, it identifies the outcome you told
20 the jury about, which was an odds ratio for suicide attempts,
21 correct?

22 A. Correct, yes.

23 Q. That -- and that's the 6.7 that the jury has heard about?

24 A. Correct.

25 Q. That 6.7 didn't include suicidal thoughts, correct?

1 A. That's correct -- well, it would have included some
2 suicidal ideation. There's very few suicide attempts that
3 won't be accompanied by suicidal ideation, also. There's
4 many, many, many suicidal ideations, four or five times the
5 number of ideations that don't go on to attempts as there are
6 attempts with ideation.

7 Q. Suicidal ideation led to an attempt, correct?

8 A. In these instances, correct.

9 Q. Okay. GSK in that same section wrote, "However, as the
10 absolute number and incidence of events are very small," and
11 it gives the numbers for paroxetine, 11/3455, .32 percent,
12 versus 1/978, .05 percent for placebo, odds ratio equals 6.7,
13 95 percent confidence interval, 1.1, 149.4, p equals .058,
14 these data should be interpreted with caution. Is that what
15 it says?

16 A. That's what it says. Lots of people struggle over the
17 difference between confidence interval and the p value here,
18 but leaving that aside, I'd agree with GSK that these data
19 should be interpreted with caution primarily because these
20 trials were not designed to look at the problem. And if the
21 trials had been designed to look at the problem, the
22 confidence interval would have been much, much tighter and the
23 odds ratio might have been a lot larger.

24 Q. Let's look at the patients in the trials involving the
25 conditions other than MDD which starts on the bottom of Page

- 1 7, the next page. Do you see -- are you there?
- 2 A. I do, yes.
- 3 Q. I want to ask you about the relative size of the groups.
- 4 We saw that the MDD-only group was a population of --
- 5 A. 3,000, roughly.
- 6 Q. -- 3,455 on paroxetine and 1978 on placebo?
- 7 A. Yes.
- 8 Q. Does that sound right?
- 9 A. Yes.
- 10 Q. But on the trials involving conditions other than MDD,
- 11 there were a total of 8,958 paroxetine patients and 5,953
- 12 placebo patients in the data set, correct?
- 13 A. I'm not exactly --
- 14 Q. I'll pull that up.
- 15 A. I think the entire data set was that, so I think you have
- 16 to subtract the 3,4, or whatever from the 8,5.
- 17 Q. Well --
- 18 A. I could be wrong.
- 19 Q. -- that's right. You're right. So if we subtract the MDD
- 20 from the total --
- 21 A. Yes.
- 22 Q. -- the 8958, we know that there were 5,503 paroxetine
- 23 patients?
- 24 A. Possibly.
- 25 Q. And 39 -- 3,975 placebo patients in the non-MDD trials.

1 A. Uh-huh.

2 Q. So that's about 2,000 more paroxetine patients and about
3 2,000 more placebo patients than were in the MDD data set,
4 correct?

5 A. Sure, but as I've indicated to you before, this doesn't
6 make the finding more robust. It points to the fact that
7 these were even less well-designed trials.

8 Q. And you've made that clear this morning. And then GSK
9 presented the results for the non-MDD conditions on Page 8, if
10 you'll turn to that.

11 MR. BAYMAN: Can you blow that up, please?

12 BY MR. BAYMAN:

13 Q. The first set of the results that are up there on the
14 screen is for the primary end point of all suicidal ideation
15 and behavior, correct?

16 A. Correct, yes.

17 Q. And then GSK wrote:

18 "In placebo-controlled clinical trials in psychiatric
19 disorders other than MDD, there was no evidence of an
20 increased risk of suicidal behavior or ideation, primary
21 end point, in patients treated with paroxetine."

22 A. And just below it, they show an odds ratio for behavior
23 alone without ideation, but the odds ratio is greater in
24 non-depression than for depression, 1.5 versus 1.2.

25 Q. My question was: GSK found there was no evidence in

1 psychiatric disorders other than MDD, there was no evidence of
2 an increased risk of suicidal behavior ideation which is the
3 primary end point in patients treated with paroxetine,
4 correct?

5 A. GSK found an increased odds ratio compared with -- for
6 non-depressed indications versus depressed indications.

7 Q. Well, let's look at the specific results. For all
8 indications which includes MDD, the odds ratio is .9, correct?

9 A. And I'm looking at the one below, 1.2, which I've
10 indicated the behavior is much more robust than ideation and
11 behavior.

12 Q. Stick with me on this one.

13 A. I hope the jury is looking at both.

14 Q. The confidence interval is .7 to 1.3, again, that's
15 narrow, correct?

16 A. That's relatively narrow, but in the case of trials that
17 are not designed to look at the problem, it's relatively
18 meaningless, also.

19 Q. And it's -- that finding is not statistically significant,
20 correct?

21 A. In trials that are not designed to look at the problem, I
22 think you will never hear me say the findings are
23 statistically significant or not.

24 Q. For all depression which includes MDD, the odds ratio is a
25 non-significant 1.1?

1 A. That's correct. For behavior, it's a little higher.

2 Q. And for non-depression which excludes MDD, the odds ratio
3 is .7?

4 A. And for non-depression behavior, it's double that.

5 Q. The .7 odds ratio that includes all trials for anxiety
6 disorders and other illnesses excludes MDD, correct?

7 A. Yes.

8 Q. And we saw that in these trials, that's 2,000 more
9 patients in paroxetine and placebo than in the MDD group,
10 correct?

11 A. Yes, but it doesn't make the finding more robust just
12 because it's 2,000 more patients. And when we stick with the
13 more robust end point of behavior as I say, the odds ratio --

14 MR. BAYMAN: Your Honor, I move to strike that. That
15 was not my question.

16 THE COURT: Well, you know, it's pretty complicated,
17 so I'm going to let him explain his answer.

18 THE WITNESS: Yes, I think from my point of view that
19 the jury will have guessed that the more informative piece is
20 the lower half of the page there.

21 BY MR. BAYMAN:

22 Q. But you didn't show the jury any of this data on Thursday,
23 did you?

24 A. I think the jury had probably a lot of me. I'm not sure
25 they could have put up with hours and hours more of me. I

1 would have been happy to keep talking for hours and shown the
2 jury a lot more material.

3 Q. You showed the jury the secondary end point but not the
4 primary end point?

5 A. But there's no basis -- if you are able to offer the jury
6 a good reason for saying one is primary and the other is
7 secondary, that's fine, we could argue about that and the jury
8 could make up their own mind. I'm saying to the jury that the
9 choice is arbitrary, and you haven't argued with me about that
10 one.

11 Q. We'll have witnesses who will do that, Doctor.

12 A. Okay.

13 Q. GSK also reported the results for the secondary end point,
14 but you want to talk about suicidal behavior --

15 A. Let's just call it behavior.

16 Q. -- which include suicides and suicide attempts, right?

17 A. Yes.

18 Q. Okay. Let's pull that up, right there. And GSK again, as
19 with the primary end point, there was no statistically
20 significant increased risk on either the all indications group
21 or the all depression group or the all non-depression group,
22 right?

23 A. You will never hear me talk about statistical significance
24 about trials that are not designed to look at the end point in
25 question.

1 Q. And you didn't show the jury this data either, correct?

2 A. No, I didn't show the jury this data either, but it was
3 implicit in some of the earlier data that they were shown.

4 Table 16, if they look at the odds ratio for overall behavior
5 and for any of the jurors that are up with data and
6 statistics, which gave an overall odds ratio for MDD and
7 non-depression studies of 2.76 with a confidence interval that
8 was relatively tight, the jurors would have been able to work
9 out that that was a significant problem from the
10 non-depression trials, also.

11 Q. And the jury will make up its own mind, Doctor. On direct
12 examination, you talked about mechanisms by which you believe
13 that paroxetine causes suicide. Isn't it true, you haven't
14 identified any biological mechanism that would cause you to
15 believe that any antidepressants in general or Paxil in
16 particular increases the risks of suicidal behavior in MDD
17 patients but not in patients taking it for other indications?

18 A. Let me be absolutely clear what you're asking me. You're
19 asking me, is there a difference between the suicides that
20 happen in people who are depressed versus the -- who are also
21 taking Paxil versus the suicides happening in people who are
22 anxious who may be taking Paxil? Is that what you're asking?

23 Q. No, no. I'm saying that you've not identified a
24 biological mechanism that would cause you to believe that
25 antidepressants in general or Paxil in particular increase the

1 risk of suicidal behavior in MDD but not in patients taking it
2 for some other indication?

3 A. Let me be absolutely clear here. I'm saying the risk
4 comes from the drug. It's a bit like alcohol. I would expect
5 alcohol to make some people who are depressed become suicidal
6 and perhaps try to harm themselves and people who aren't
7 depressed become suicidal and try to harm themselves.

8 Paxil behaves the same way. There's nothing
9 particular about its action when we are talking about people
10 who are depressed, who for the most part people getting Paxil
11 would have been labeled as being anxious 20, 30 years ago but
12 they're not melancholic, for instance.

13 Q. But there's no mechanism that -- there's no biological
14 mechanism for why Paxil would increase suicidality in MDD
15 patients but not increase it in a patient with some other
16 anxiety disorder, correct?

17 A. No, I would expect Paxil to be a risk for particular
18 people -- as I've indicated before, we've all got different
19 serotonin systems. We can still become anxious or become
20 depressed or whatever. It's the nature of our individual
21 serotonin systems that seems to shape the risk. Some people
22 are at risk.

23 There's some depress -- some of us when we're
24 depressed can take Paxil without great risk. Some of us who
25 are anxious can take Paxil without great risk. Some of us who

1 have got a different serotonin system are at risk whether
2 anxious or depressed or have BMDD. Actually, the highest
3 rates, it seems, at which people become suicidal taking SSRIs
4 who have PMDD, and I'm not sure whether there's a biological
5 reason for that.

6 Q. But you would expect that the propensity for the drug to
7 cause problems will be found in anyone --

8 A. Not anyone --

9 Q. -- healthy --

10 A. Not anyone, not anyone, no, no. Some of us are at risk
11 from these drugs. Some of us are at more risk than others
12 from these drugs.

13 Q. But you can't identify a biological mechanism why certain
14 people would be more at risk -- certain major depressed
15 patients would be more at risk than someone taking it for
16 social anxiety, for example?

17 A. No, but I've kept saying to you that I think it's the
18 nature of our serotonin systems. I can identify -- well, I
19 think we're very close to being able to identify some people
20 who are at risk of going on to commit suicide when they take
21 an SSRI because there are people who seem to have a different
22 serotonin system to rest with so that when they take an SSRI,
23 they become alcoholic, and that greatly increases their risk.

24 Q. But you haven't identified a mechanism, not even
25 akathisia, that would cause suicide in patients with MDD but

1 not in OCD or GAD, correct?

2 A. No -- well -- sure, sure. I think there's -- I mean,
3 just -- I'm happy to keep talking about this, but I'm not
4 quite sure where you're going --

5 THE COURT: Doctor, slow down. You went in two
6 different directions at once there.

7 THE WITNESS: I'm sorry. I'm happy to keep talking
8 about this. For instance, in our personalities, people with
9 OCD when they become agitated in this way seem more likely
10 from GSK's clinical trial data to become violent rather than
11 to become suicidal. So there definitely are differences there.

12 And the people who should have been exploring these
13 differences for all of our sakes are a company like GSK who
14 have been making so much money out of this drug.

15 MR. BAYMAN: I move to strike that, your Honor.

16 THE COURT: That may go out.

17 MR. BAYMAN: That's inflammatory.

18 THE COURT: The jury will disregard it.

19 BY MR. BAYMAN:

20 Q. Back to my question, which was, you haven't identified any
21 mechanism that would cause suicide in patients with MDD but
22 not in OCD or GAD?

23 THE COURT: What is OCD again, Doctor?

24 THE WITNESS: That's obsessive-compulsive disorder,
25 your Honor.

1 BY MR. BAYMAN:

2 Q. And GAD is generalized anxiety disorder.

3 A. Correct, yes. No, I've indicated all the way through that
4 it's not a function of the disorder. It's a function of the
5 serotonin systems that all of us have. Some of us are at
6 risk. Whether we superficially get GAD or major depressive
7 disorder or whatever, it's not the condition that determines
8 our risk. It's the nature of our biology before we have the
9 condition that determines the risk.

10 Q. Okay. And you -- when you discussed the 2006 analysis,
11 the only -- with the jury last week, the only finding you
12 pointed out was the finding in patients taking paroxetine for
13 major depressive disorder, correct?

14 A. No. I think the findings I pointed out included the, all
15 indications other than the IBD ones. That was the 2.76
16 figure. That wasn't just confined to major depressive disorder.

17 Q. You didn't point out to the jury that in every other
18 indication whether it's SAD or OCD, PMDD which we've talked
19 about, there was no statistically significant increased risk
20 of suicidality, did you?

21 A. Well, there was an increased risk, and again -- you're
22 just not going to get me saying "statistically significant."
23 There's an increased risk for most conditions you mentioned
24 except panic disorder. PMDD had a greatly increased risk.

25 Q. Okay. Doctor, you also -- you talked about some -- you

1 told the jury that we need to take all the data into account,
2 correct?

3 A. Yes, and that's still my position.

4 Q. And look at every -- we should look at every kind of data.
5 And you presented some articles, do you recall that? One is
6 yours, it's what we call the Healy Fergusson article?

7 A. Yes.

8 MR. BAYMAN: And that's in evidence, your Honor. It
9 was published to the jury. It's Plaintiff's Exhibit 165, Tab
10 22.

11 THE WITNESS: Yes.

12 BY MR. BAYMAN:

13 Q. I don't intend to go into depth. I just want to kind of
14 briefly review these. You're an author on that paper, right?

15 A. I am, yes.

16 Q. Okay. And this study doesn't have any results that are
17 specific to paroxetine, correct?

18 A. That's correct.

19 Q. You looked at all the SSRIs lumped together, correct?

20 A. Correct.

21 Q. You talked to Mr. Wisner about the results for suicide
22 attempts, but I want to ask you about the results for
23 completed suicides because this is a completed suicide case.

24 Okay?

25 A. Okay.

1 Q. Look at Page 397, which I think is probably the fourth
2 page in your collection. I think it says at the bottom "Page
3 4 of 7," Doctor.

4 A. Yes, it does.

5 Q. You got it?

6 A. Yes.

7 THE COURT: Excuse me. You're not on Exhibit 165?

8 MR. BAYMAN: I am on -- yes, your Honor, on
9 Plaintiff's Exhibit 165 which Dr. Healy presented to the jury
10 last week.

11 THE COURT: Yes. What page?

12 MR. BAYMAN: Your Honor, if you look at the lower
13 left corner, it will say "Page 4 of 7."

14 THE COURT: Yes. Okay.

15 BY MR. BAYMAN:

16 Q. Are you with me, Doctor?

17 A. I am, yes.

18 Q. Okay. It says in the right-hand column, the end of the
19 first paragraph, "In comparing fatal suicide attempts, we did
20 not detect any differences between SSRI and placebo." And
21 then you give some numbers, correct?

22 A. Yes.

23 Q. A fatal suicide attempt is a completed suicide?

24 A. Completed suicide, correct.

25 Q. And the odds ratio is less than 1, correct?

1 A. Correct.

2 Q. So for all of the SSRIs combined including paroxetine, you
3 didn't detect any difference in the rate of completed
4 suicides, correct?

5 A. Well, let's be clear. This is on the basis of published
6 articles. It's not access to the data. And for the most
7 part, these articles will have been ghost written, and it was
8 difficult to get access to the data from many of the authors.

9 MR. BAYMAN: Your Honor, I move to strike this.

10 BY MR. BAYMAN:

11 Q. This is your own article.

12 A. Oh, yes. No, right, but this is based -- this is looking
13 at the publications that are out there. We don't have access
14 to the data. We've got access to publications and what the
15 publications say the figures are. And in a number of cases,
16 when the publications haven't mentioned figures, we make it
17 clear that we contacted the authors to try and get the figures
18 but haven't always been successful.

19 Q. On Page 398 which is Page 5 of 7 --

20 A. Yes.

21 Q. -- if you look in the second column under "Possible
22 explanations for our findings."

23 A. Yes.

24 Q. You and your colleagues wrote:

25 "Estimates for patients with major depression favored

1 a decrease in suicide with SSRIs whereas patients with
2 depression and other clinical indications may have as
3 much as an eight-fold increase in the rates of suicide,
4 thus resulting in an overall null effect."

5 Did I read that correctly?

6 A. Yes, you did.

7 Q. Okay. So in this study -- and you told the jury this was
8 about the same size as the FDA study, correct?

9 A. Yes.

10 Q. You found that for patients with major depression, there
11 was a decrease in suicide in patients taking SSRIs compared to
12 patients taking placebo, correct?

13 A. We -- yes.

14 Q. Okay.

15 A. That's correct.

16 Q. And you didn't tell the jury about that finding last week,
17 did you?

18 A. I didn't conceal it from the jury. We've indicated that
19 overall when we take everything into account, we believe
20 there's a risk from SSRIs for people becoming suicide -- well,
21 going on to suicidal behavior.

22 Q. You agree with me, Doctor, that the FDA specifically knew
23 of and reviewed this article prior to announcing its findings
24 of the 2006 adult suicidality analysis of the 11
25 antidepressants, correct?

1 A. That's correct. They both refer to that when they
2 introduce the Stone and Jones article and refer to some
3 comparability between their figures and ours later at the end.

4 Q. And, in fact, the FDA commented on your study, did it not?

5 A. Yes, it probably did.

6 Q. You're familiar with the memorandum from Dr. Laughren
7 that it -- to the members of the advisory committee?

8 A. Sure. This is Dr. Laughren's view, yes.

9 Q. Dr. Laughren of the FDA?

10 A. Dr. Laughren of FDA. There's probably a lot of other
11 people like David Gray at FDA who would have had a very
12 different view.

13 Q. The -- he wrote a memorandum to the members of the --
14 what's an advisory committee?

15 A. It's where there's an issue -- when a drug is going to be
16 approved, for instance, FDA will convene an advisory committee
17 of experts to look at the data that's the basis for the
18 approval of the drug. They don't always pay heed to what the
19 experts say. The experts may say, "You shouldn't approve this
20 drug," and FDA may go ahead and approve it, for instance.

21 Q. And your -- Dr. Laughren then prepared a memorandum for
22 the memo -- for the members of the committee --

23 A. He did, yes.

24 Q. -- the advisory committee as part of his work in
25 investigating whether there was any link between SSRIs and

1 suicide in adults, correct?

2 A. He prepared a memorandum to open the day, yes. And he
3 gave a talk to open the day.

4 Q. And you were there?

5 A. I was there.

6 MR. BAYMAN: Yes. Okay. Your Honor, I would at this
7 point move for admission of Defendant's Exhibit 435, the
8 memorandum for the FDA advisory committee.

9 MR. WISNER: Your Honor, objection, hearsay, to the
10 extent that the exhibit itself is being offered for the truth
11 of the matter. I don't believe any foundation has been laid
12 that he relied upon any of those statements in forming his
13 opinion, and so it doesn't constitute expert testimony either.

14 MR. BAYMAN: I think, your Honor, it -- again, it is
15 part of the FDA's investigation which is a specific exception
16 to the hearsay rule.

17 THE COURT: Well, he was present.

18 MR. BAYMAN: He was present, yes.

19 THE COURT: He heard the speech, and he can tell us
20 what he thinks about it after you've called it to his
21 attention.

22 MR. BAYMAN: Thank you, your Honor.

23 THE COURT: Thank you.

24 MR. BAYMAN: Go ahead and -- I just want to call to
25 your attention --

1 THE COURT: Where are we now? What exhibit are we?

2 MR. BAYMAN: We're at Exhibit 435, your Honor. I
3 moved it into admission.

4 THE WITNESS: Where would I find it in the binder?

5 THE COURT: What tab is it?

6 MR. BAYMAN: 23, Tab 23.

7 THE COURT: I have it. Thank you.

8 MR. BAYMAN: Are you there?

9 THE WITNESS: I am, yes.

10 MR. BAYMAN: They, if you look in -- let's go to Page
11 4, and highlight, Roger, with Fergusson.

12 BY MR. BAYMAN:

13 Q. Fergusson, that's your paper, right?

14 A. Yes, it is, yes.

15 Q. You see that the FDA stated in that paragraph in the last
16 sentence, "There were serious limitations to this review, most
17 important being a lack of any information on adverse events
18 for 58 percent of the patients eligible for the analysis."

19 Did I read that correctly?

20 A. Correct, you did.

21 Q. Okay. And you didn't mention that the FDA said there were
22 serious limitations to your study when you talked about it
23 last week, did you?

24 A. Oh, I'm happy -- I mean, any study in this area and ours
25 and FDA -- I mean, I indicated, I've indicated serious

1 limitations to the jury just a few minutes ago. We were
2 relying on published papers.

3 Q. I --

4 A. In the same way, FDA has serious limitations to their
5 study. Everyone has.

6 MR. BAYMAN: I move to strike that, your Honor. My
7 question was, "You didn't tell the jury that?"

8 MR. WISNER: Objection, your Honor.

9 THE COURT: It may stand. Proceed.

10 BY MR. BAYMAN:

11 Q. And then if we go back, can we go back now to your
12 paper --

13 A. We can.

14 Q. -- with Fergusson. Do you have that handy?

15 A. I have, yes.

16 MR. BAYMAN: And that's Plaintiff's Exhibit 165, your
17 Honor.

18 THE WITNESS: Tab 22, your Honor, just the previous
19 tab.

20 BY MR. BAYMAN:

21 Q. Are you with me, Doctor?

22 A. Yes.

23 Q. Okay. I want to show you the box on Page 7 that you
24 showed the jury last week.

25 A. Yes.

1 Q. Do you remember?

2 A. Yes.

3 Q. Okay. And it says, "What is already known on this topic,"
4 and it says, "divergent studies exist on whether SSRIs are
5 associated with an increase in suicidal events."

6 Do you see that?

7 A. Yes.

8 Q. And I read that correctly?

9 A. You did, yes.

10 Q. Divergent means they show opposite results, correct?

11 A. Correct.

12 Q. So you agree that not -- that there are studies that show
13 that SSRIs are not associated with an increased risk in
14 suicidal behavior?

15 A. GSK has authored lots of them, yes.

16 Q. And you said, I think, last week, people are on different
17 sides of this debate, correct?

18 A. GSK has been on the opposite side to me, definitely.

19 Q. And but you did not show the jury any of these divergent
20 studies that show no increased risk, correct?

21 A. I think some of them have come up. The Dunner and Dunbar,
22 the Montgomery and Dunbar. Certainly, studies like this, I've
23 been more than happy -- they represented in article form the
24 data that GSK submitted to FDA complete with placebo run-ins
25 without any asterisks.

1 Q. They don't conclude that SSRIs cause suicidality?

2 A. Exactly, they don't. They hide the problem and I think in
3 ways that are very unfortunate.

4 Q. But you agree with me that there are studies that show
5 SSRIs are not associated with an increased risk of
6 suicidality?

7 A. I think there's very few that show that they're not
8 associated with an increased risk but having trying to hide
9 the problems. The ones that have been more genuine at least
10 that haven't been trying to hide the problems show an
11 increased risk.

12 You may say that the risk is not statistically
13 significant, but there is a consistent increase in risk that
14 most of these studies point to.

15 MR. BAYMAN: Your Honor, I'm getting ready to turn to
16 something else. Do you want me --

17 THE COURT: Do you want to take a break?

18 MR. BAYMAN: Yes. I just thought it might be a good
19 time to take a break.

20 THE COURT: All right. We'll take a break. Ladies
21 and gentlemen, we'll take 10 to 15. Let's see how close we
22 can come to 10.

23 (Recess from 2:58 p.m. to 3:10 p.m.)

24

25