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(Proceedings heard in open court. Jury out.)

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19 (Proceedings heard in open court. Jury in.)

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

22 You may proceed.

23 MR. BAYMAN: Thank you, your Honor.

24 JOHN KRAUS, M.D., DEFENDANT'S WITNESS, PREVIOUSLY SWORN

25 DIRECT EXAMINATION (Resumed)

1 BY MR. BAYMAN:

2 Q. Dr. Kraus, I'd like to talk to you about adverse events in
3 clinical trials. What -- in the context of a clinical trial,
4 what is an adverse event?

5 A. So it is -- in general, an adverse event is any event that
6 occurs in any portion of the clinical trial that is
7 uncomfortable or a discomfort or painful or different for the
8 patient under study.

9 Q. Does it matter about the severity of what it may be?

10 A. No. You're typically supposed to collect everything.

11 Q. And were -- the investigators in the paroxetine clinical
12 trials, were they required to record adverse events and report
13 those to the FDA?

14 A. Yes.

15 MR. WISNER: Objection, lacks foundation. All of
16 these clinical trials were completed before he arrived at GSK.

17 THE COURT: Overruled.

18 MR. BAYMAN: Thank you, your Honor.

19 BY MR. BAYMAN:

20 Q. You can answer.

21 A. Yes, they require the investigators to record and report
22 the adverse events.

23 Q. And were the investigators in the paroxetine or Paxil
24 clinical trials directed to report occurrences of suicidal
25 thoughts and behavior?

1 A. Yes, as that would be considered an adverse event.

2 Q. Now, so that we're clear, were -- the investigators in the
3 Paxil clinical trial, were they employees of GSK?

4 A. No.

5 Q. Who were they?

6 A. Investigators in clinical trials are typically affiliated
7 with academic institutions of psychiatry and are researchers
8 and clinicians who work to be the investigator and execute the
9 protocols or study designs for the trial.

10 Q. Were GSK's investigators required to state whether they
11 believed adverse events were related to the medication that
12 the patient was taking or not?

13 A. Yes. In the clinical trials, it's required that the
14 investigator make what's called an attribution. So if an
15 adverse event happens, they have to write down whether they
16 think it may or may not have been related to the treatment
17 that the patient is taking.

18 Q. Did they make those attributions for placebo as well as
19 active control if applicable?

20 A. Yes, because they're blinded. They don't know what the
21 patient is taking. Usually in the placebo controlled portion,
22 so they make that assessment for both compounds, placebo,
23 drug.

24 Q. And based on your review of the clinical trial data, did
25 you find occasions where clinical investigators attributed

1 certain adverse events to placebo?

2 A. Yes, that happens.

3 Q. Did GSK ever do an analysis of the relatedness assessments
4 that the clinical investigators made for suicide-related
5 adverse events in paroxetine or Paxil trials?

6 A. Yes. GSK did an analysis looking at that.

7 Q. And just tell us about that.

8 A. In the analysis of the clinical trials looking at possibly
9 suicidality-related adverse events, when they compared the
10 investigator attribution for paroxetine-related events versus
11 placebo, more often did they relate the event as occurring as
12 related to placebo treatment than paroxetine treatment.

13 Q. And explain the significance of that.

14 A. I mean, the significance of this is, why do we collect
15 investigator attribution. It's really to see if over time,
16 more investigators than not think that a certain adverse event
17 or side effect might be related to treatment. That can give
18 you a signal that could be something you need to look at down
19 the line.

20 In this case because there -- actually, for placebo,
21 there was more attribution to suicidality than Paxil, there
22 didn't appear to be a signal with drug treatment that required
23 further follow-up.

24 Q. You're familiar with the opinions of the plaintiff's
25 experts, notably, most notably Dr. Healy from your work in

1 this case?

2 A. Yes.

3 Q. You have reviewed his report?

4 A. I have in the past.

5 Q. And you're aware that Dr. Healy and, in fact, Dr. Healy
6 testified companies generally tend to emphasize when the
7 investigator thinks a person has got better and that this is
8 related to the drug, they'll emphasize that?

9 MR. WISNER: Objection.

10 MR. BAYMAN: I'm quoting him as you told me to do,
11 your Honor.

12 THE COURT: Well --

13 MR. WISNER: Page, line number?

14 MR. BAYMAN: It's the trial transcript Page 584.

15 MR. WISNER: What was the quote?

16 I'm sorry, your Honor. I should talk to the Court.
17 Your Honor, I have no context to what he's referring to. I
18 can't verify this. I don't know what's going on here.

19 MR. BAYMAN: I can ask it a different way.

20 THE COURT: Well, you'd better give him the page
21 numbers if you're going to do that.

22 MR. BAYMAN: That's fine. It's Page --

23 THE COURT: That is the way to do it. We don't
24 know -- I'm sure you're giving us a fair summary, but counsel
25 may disagree, so we have to give them the reference.

1 Anyway, you can answer the last question. Let's move
2 in the direction of being very specific --

3 MR. BAYMAN: Yes, sir.

4 THE COURT: We are dealing in terms of rebutting.

5 MR. BAYMAN: Well --

6 THE COURT: Read it back. Let's hear it again.

7 (Record read as follows: "Question: And you're aware
8 that Dr. Healy and, in fact, Dr. Healy testified
9 companies generally tend to emphasize when the
10 investigator thinks a person has got better and that this
11 is related to the drug, they'll emphasize that?")

12 BY THE WITNESS:

13 A. I did hear that, but that's not how the trials are
14 conducted. Attribution, the investigator's relatedness is
15 given for adverse events, not for the efficacy ratings.

16 BY MR. BAYMAN:

17 Q. And has it been your experience that GSK, when it comes to
18 an adverse event from a clinical trial, GSK will say, well,
19 the investigators didn't think this was related and ignore
20 that -- ignore what the investigator's attributions were?

21 A. No.

22 Q. When did -- I want to talk to you just about the approvals
23 of Paxil. When did Paxil first get approved for sale in the
24 United States?

25 A. I believe it was in 1992 for major depressive disorder.

1 MR. WISNER: At this time, your Honor, I'm going to
2 object to the question regarding Dr. Healy's testimony. I
3 have now read it, and it is actually misleading and out of
4 context.

5 THE COURT: You can take that up on redirect --

6 MR. WISNER: Yes, your Honor.

7 THE COURT: -- or cross. Excuse me, cross-examination.

8 BY MR. BAYMAN:

9 Q. Turn, if you would, in your book to Tab 1, defense Exhibit
10 306.

11 A. There's not enough room up here for this stuff. Okay.

12 Q. Are you familiar with this document?

13 A. Yes.

14 Q. What is it?

15 A. This is a note from the FDA from Bob Temple who is the
16 director of the office of drug evaluation and center for drug
17 evaluation and research giving the approve -- approvable,
18 FDA's approval of the paroxetine for the treatment of major
19 depressive disorder.

20 Q. That was the initial new drug application?

21 A. Yes.

22 Q. Does this record set out the FDA's official position?

23 A. Yes, it does.

24 Q. Do you and your colleagues at GSK rely on information in
25 FDA approval letters as a statement of the agency's position?

1 A. Yes, we do.

2 Q. Do you maintain -- does GSK maintain records such as this
3 in the ordinary course of business?

4 A. Yes, we do.

5 Q. Did you, as part of -- when you got job responsibilities
6 of being responsible for Paxil, did you go back and review
7 this letter as part of your work?

8 A. Yes, I did, and for other indications as well.

9 MR. BAYMAN: Your Honor, at this point, I move for
10 permission to publish defense Exhibit 306.

11 MR. WISNER: Objection, your Honor. Hearsay and 403.
12 If we can have a sidebar on this, I can walk you through the
13 legal issue.

14 THE COURT: All right. Go to sidebar.

15 (Proceedings heard at sidebar:)

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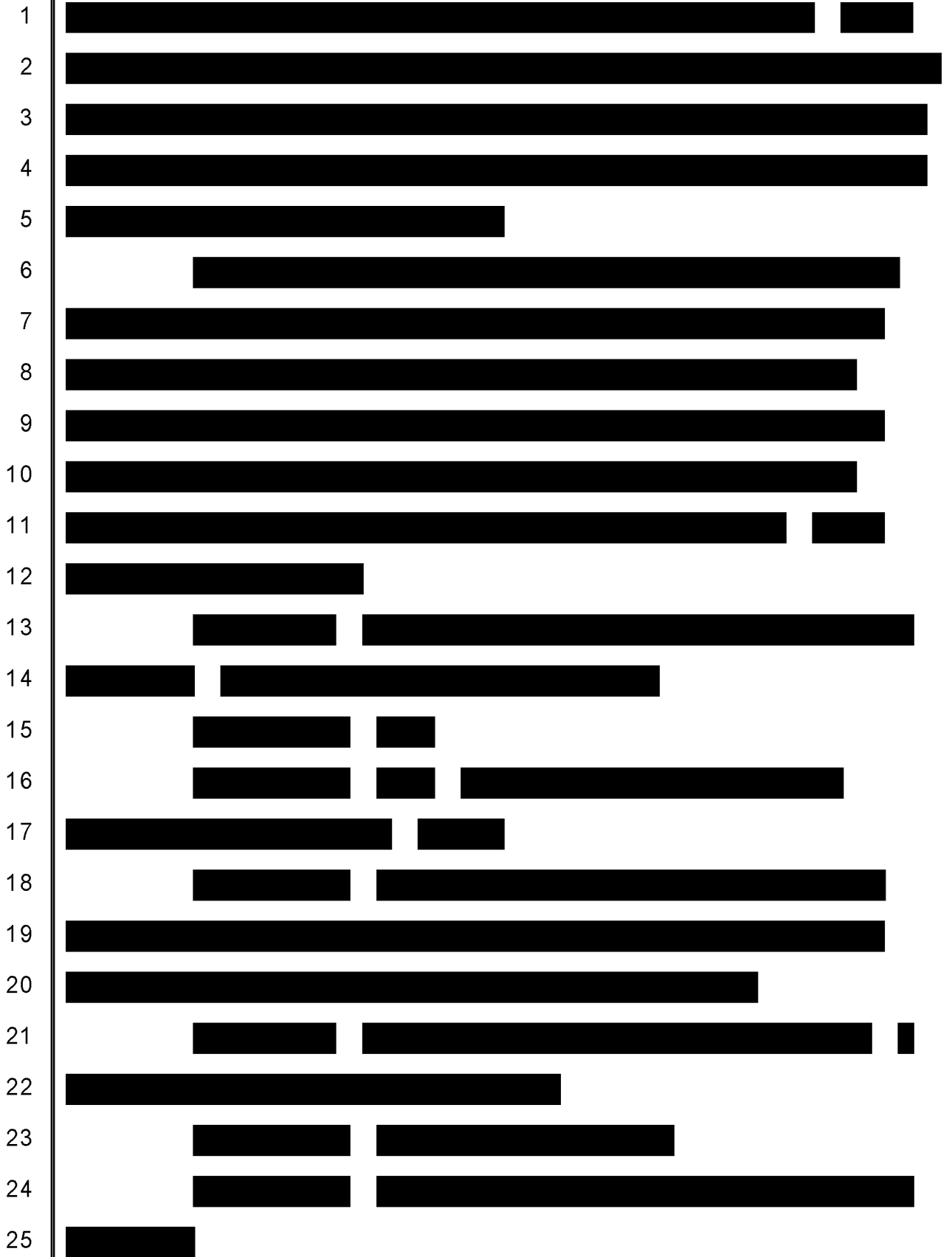
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4 (Proceedings heard in open court:)

5 BY MR. BAYMAN:

6 Q. Dr. Kraus, did -- in 1992, did the FDA approve Paxil for
7 sale in the United States?

8 A. Yes.

9 Q. And did it approve it as safe and effective for use as
10 recommended in the labeling?

11 A. Yes, it did.

12 Q. Did the label in 1992, the Paxil label, include any
13 language about suicide?

14 A. About suicidality, yes.

15 Q. And what did the -- what did the language say with respect
16 to suicidality? You'll probably have to look at the document.

17 A. Within the precautions section, it has a heading:

18 "Suicide. The possibility of a suicide attempt is
19 inherent in depression and may persist until significant
20 remission occurs. Close supervision of high-risk
21 patients should accompany initial drug therapy.
22 Prescriptions for Paxil should be written for the
23 smallest quantity of tablets consistent with good patient
24 management in order to reduce the risk of overdose."

25 Q. Did GSK have any choice about whether or not to use this

1 labeling?

2 MR. WISNER: Objection, speculation, misstates the
3 law.

4 THE COURT: You can ask him his opinion about that,
5 and I'll let that in as his opinion, but I will not let it in
6 as a statement of the law. Do you understand?

7 MR. BAYMAN: Understood, your Honor.

8 THE COURT: Okay.

9 BY MR. BAYMAN:

10 Q. In your opinion, did GSK have any choice about whether or
11 not to use this language in the label?

12 A. The answer is no.

13 Q. Are you familiar with the term "disease management"?

14 A. Sure, yes.

15 Q. How would -- how would you describe this suicide language
16 in the 1992 label?

17 A. In the context of what was known about paroxetine at the
18 time, and this is really advising about the general risk in
19 depression itself ensuring that physicians are aware and
20 maintain vigilance even when starting drug therapy.

21 Q. Is that --

22 A. So it's -- it's primarily disease management, in my
23 opinion, at this stage.

24 Q. Did that change over time?

25 A. Yes, it did.

1 Q. Explain that, please.

2 A. Over time, as more information evolved on antidepressants
3 and suicidality, the warnings and precautions actually
4 highlighted information around starting medicine, changing
5 dose, and then ultimately having findings about association in
6 young adults and pediatric subjects.

7 Q. In your opinion, were those subsequent warnings and
8 precautions disease management?

9 A. No. They're related to analyses conducted based on data,
10 clinical trials, things of that nature.

11 Q. Now, following the FDA's first approval of Paxil, did FDA
12 then approve Paxil as safe and effective for additional
13 indications?

14 A. Yes, FDA did.

15 Q. Okay. I'm -- we're not going to go through them all, but
16 if you'll turn to Page -- Tabs 2 through 12 in your notebook.

17 A. Yes.

18 Q. What other indications did the FDA approve Paxil as being
19 safe and effective when used in accordance with the labeling?

20 A. In addition to major depressive disorder, there are a
21 number of anxiety disorders that were also approved including
22 generalized anxiety disorder, social anxiety disorder,
23 posttraumatic stress disorder.

24 There was approval for different formulations, an
25 oral suspension which is like a liquid. There was approval

1 for a sustained-release tablet or controlled-release tablet,
2 CR, for depression and some anxiety disorders as well. And
3 there were indication of PMDD as well. I think I've covered
4 them all. Maybe not, though.

5 Q. And when -- were those called supplemental NDAs?

6 A. They are called supplemental NDAs because they add on to
7 the first drug approval which was for major depressive disorder.

8 Q. So did GSK provide safety information or other data to the
9 FDA in connection with obtaining these supplemental approvals
10 for these other disorders?

11 A. Right. Each of the supplemental approvals have to have
12 within them an integrated safety summary. So all the updated
13 safety information goes with these submissions.

14 Q. For each subsequent approval, supplemental approval, did
15 FDA have to make a determination that Paxil was safe and
16 effective when used in accordance with the labeling?

17 A. Yes, it did.

18 Q. And did it do so?

19 A. Yes. These indications were approved.

20 Q. Did you assist in preparing a graphic that lists those
21 indications that you described?

22 A. Yes.

23 Q. Would that assist you in explaining your testimony to the
24 jury?

25 A. Yes. It would show all the indications for which the

1 approvals occurred.

2 MR. BAYMAN: Your Honor, just permission to publish
3 7036-14.

4 MR. WISNER: Objection, argument. It's the same
5 graphic that was not permitted earlier.

6 THE COURT: I don't remember this graphic before.

7 MR. BAYMAN: I didn't use it earlier.

8 MR. WISNER: Instead of having the check boxes, it
9 said "approved," but it's the same graphic.

10 THE COURT: Well, this one is -- all right. You may
11 show it.

12 MR. BAYMAN: Thank you.

13 Put it up there.

14 THE WITNESS: Right. This is a summary of the
15 different diseases that I summarized as well as the
16 formulations and the dates when those approvals occurred.

17 BY MR. BAYMAN:

18 Q. Now, in connection with those approvals, subsequent
19 approvals, was FDA required to make a new determination about
20 whether the medicine was safe and effective when used in --
21 with the prescribing information based on your experience and
22 expertise?

23 A. Yes.

24 MR. WISNER: Objection, your Honor. This witness is
25 not an FDA expert, and he's testifying about what the FDA does

1 and does not do, and he's never worked there. I move to
2 strike.

3 THE COURT: He can testify as to what they did.

4 THE WITNESS: The answer is yes.

5 THE COURT: The answer is yes as to what?

6 BY MR. BAYMAN:

7 Q. That they had to -- when a new supplemental drug
8 application is submitted, does FDA and did they make a
9 determination each time after studying that new information
10 that the medicine was safe and effective for the indication?

11 A. Yes, they did.

12 MR. WISNER: Your Honor, again, I object to
13 relevance. There's no dispute that Paxil has been approved by
14 the FDA. The question is whether or not it causes suicide --

15 MR. BAYMAN: And I'm going to get to that, your
16 Honor.

17 MR. WISNER: -- and there's nothing about that on
18 this page. This is highly prejudicial and, quite frankly,
19 contrary to binding Supreme Court precedent. We think this is
20 highly prejudicial.

21 THE COURT: Proceed.

22 BY MR. BAYMAN:

23 Q. In connection with each of these approvals through January
24 2004 that we looked at, did FDA ever request the inclusion of
25 any new or different language in the Paxil label concerning

1 the risk of suicidality?

2 A. It contained the same language I read earlier from the
3 very first approval. As some of these anxiety disorders were
4 approved, it also added language that because anxiety
5 disorders can coexist with major depression, there should also
6 be observation in these patients for the risk of suicide
7 attempt. I could look up the exact language if that's helpful
8 in one of the labels, but that's a paraphrase.

9 Q. Did FDA ever say to GSK that it -- during this time period
10 that it believed the data on Paxil showed reasonable evidence
11 of an association between Paxil and suicide attempts, suicide,
12 or suicidal thinking?

13 A. No.

14 Q. Did FDA ever say to GSK that the labeling should include
15 information that there was an increased risk of suicide
16 attempts, suicide, or suicidal thinking for adult patients who
17 took Paxil during this time period?

18 A. No, they did not.

19 Q. Did FDA ever say to GSK there was a scientific or other
20 basis for changing the Paxil label and warnings to suggest
21 that there was an increased risk of suicide attempt, suicide,
22 or suicidal thinking from Paxil in adult patients during this
23 time period?

24 MR. WISNER: Objection --

25 THE WITNESS: No --

1 MR. WISNER: -- hypothetical, hearsay.

2 THE COURT: Sustained.

3 MR. BAYMAN: Okay. You can take that down.

4 BY MR. BAYMAN:

5 Q. I need to shift gears with you, Doctor, and I'm going to
6 try to do this as quickly as I can. Are you familiar in your
7 work in this case by having reviewed the expert reports that
8 the plaintiff's issues have raised -- plaintiff's experts have
9 raised as an issue about certain suicides and suicide attempts
10 in the early Paxil trials having occurred during the placebo
11 run-in?

12 A. Yes, I'm aware of that issue.

13 Q. Do patients, based on your experience and your review of
14 the clinical trial data, do they sometimes attempt or commit
15 suicide or experience suicidal thinking during the placebo
16 run-in period?

17 A. Yes, that has occurred.

18 Q. Does that surprise you?

19 A. No, because again, the diseases under study, major
20 depressive disorder, one of the key symptoms for diagnosis
21 includes suicidal thinking, suicidal behavior. It's part of
22 the disease. For this to occur in trials is not unexpected
23 just like in studies of statins for high cholesterol, you
24 might see heart attacks, things like that. It's not unusual.

25 Q. Are companies required to record and report to FDA adverse

1 events that occur during the placebo run-in period to FDA?

2 A. Yes. After a patient signs informed consent saying
3 they'll go into a study, every adverse event that occurs, no
4 matter what part of the study, has to be reported.

5 Q. In your opinion, did GSK correctly disclose the fact that
6 certain suicide and suicide attempts in the early paroxetine
7 clinical trials occurred during the run-in phase?

8 A. Yes, that has been disclosed.

9 Q. You agree that --

10 A. Yes, I agree, that has been disclosed.

11 MR. BAYMAN: Your Honor, at this point, I'd move for
12 permission to publish Plaintiff's Exhibit 82 which is already
13 in evidence. It's the 1991 suicide report.

14 MR. WISNER: No objection. It's in evidence.

15 THE COURT: Proceed.

16 MR. BAYMAN: Put it up, please.

17 THE WITNESS: Which tab is this?

18 BY MR. BAYMAN:

19 Q. This is Tab 13.

20 A. It's going to be -- okay.

21 Q. Got it?

22 A. Yeah.

23 Q. This is -- this has already been -- this document is in
24 evidence and shown to the jury. And I'm going to try to
25 shortcut this as much as we can to get through this. What is

1 this -- essentially, what is this document?

2 A. This is a submission to FDA from SmithKline Beecham --
3 that's an old company that later became part of GSK --
4 providing a report to the FDA on suicide, suicide attempts
5 that occurred in the clinical trials that supported the
6 approval for major depressive disorder. This report happened
7 while the drug was under review, so before its approval.

8 Q. So did -- does the report look at suicide and suicide
9 attempts that occurred in all Paxil clinical trials?

10 A. It does, that were available at that time.

11 Q. So that would be placebo control, open label, active
12 control?

13 A. That's correct.

14 Q. What proportion of the patients involved in the trials
15 that are the subject of this report were in placebo-controlled
16 trials as compared to patients enrolled in non-placebo-
17 controlled trials?

18 A. I'd have to look at the numbers, but I think it's
19 approximately, the placebo controlled, a little more than half.

20 Q. There were more patients in this -- in the studies that
21 are the subject of this report, were more patients in
22 non-placebo controlled than in placebo-controlled trials?

23 A. Yes.

24 Q. What is the significance to you in terms of whether it's
25 valid to make comparisons between the entire paroxetine

1 patient population versus placebo patients?

2 A. Can you ask that again, Mr. Bayman?

3 Q. Yes. What's the significance to you of comparing the
4 entire paroxetine patients from all the different trials
5 versus just placebo patients, making a comparison between the
6 two?

7 A. Oh, okay. So for the purposes of a comparison, it goes
8 back to what we talked about before. The important part is
9 trying to assess at the same time, side by side, drug and
10 placebo, whether or not there might be a difference in effect.
11 So if you're actually looking at a comparison of drug/placebo
12 to address the question of emergent suicidality, that is the
13 position to look at.

14 In the uncontrolled phase or the open-label phases of
15 Paxil where patients are only getting Paxil and there's no
16 comparison and as the time can go on, up to 52 weeks in some
17 cases, without a comparator group, as we've said, the disease
18 itself has as a part of its diagnostic features and symptoms
19 is suicidality. So that can occur. And not knowing what that
20 kind of rate would have been in a placebo group, you can't use
21 that for comparison.

22 So in answer to your question, the placebo controlled
23 portions versus the Paxil in those parts of the study are
24 informative, but this report, as you know, was looking at all
25 parts of the studies.

1 Q. Was GSK's analysis of suicidality in that report limited
2 only to looking at the numbers of suicides and attempted
3 suicides between Paxil and placebo and active control?

4 A. It looked throughout all of the study, at each portion of
5 the study.

6 Q. Right. But this analysis, was it just a comparison of
7 numbers, or was there other analysis done?

8 A. Oh, there were other analyses in this manuscript as well
9 that controlled for the exposure. So remember, we talked
10 about how the patients could be followed a long period of
11 time, that an adverse event that's part of the disease can
12 occur during that time. So the longer you observe someone,
13 the more likely you may be able to see that adverse event. So
14 this patient exposure years kind of controls for how long a
15 patient has been observed.

16 There were also analyses in this report of rating
17 scale measures of suicidal thinking and behavior. So the
18 depression measures, those rating scales we talked about
19 earlier, the depression measures have a specific item asking
20 about suicidal thinking. It goes all the way from none to
21 mild, like wishes to be dead to a suicide attempt. And those
22 rating scales were also analyzed. And what was seen in this
23 report is a reduction in suicidality by rating scale in
24 patients treated with paroxetine compared to placebo.

25 Q. Before we look at those, I want to ask you a question.

1 Based on your experience as a psychiatrist and someone who's
2 conducted clinical trials, was it expected or unexpected that
3 during the development of an antidepressant like paroxetine or
4 Paxil, patients in the clinical trials would from time to time
5 report that they experienced suicidal thinking or behavior?

6 MR. WISNER: Objection, speculation, vague, lacks
7 foundation.

8 THE COURT: Well, he's a psychiatrist, and he's
9 looked into it. I'll let him testify.

10 MR. WISNER: Just to be clear, your Honor, at the
11 time that we're talking about, he was not a psychiatrist.
12 This is 1985.

13 THE COURT: No, but he's taken over the
14 responsibility for the examination of the drug for the
15 company. On that basis, I'll let him testify.

16 MR. BAYMAN: Thank you, your Honor.

17 BY THE WITNESS:

18 A. It's not unexpected. As suicidality and suicidal thinking
19 are part of the disease itself, obviously we're studying that
20 disease, this would occur. It's like if you're studying a
21 blood pressure medicine, you may expect to see stroke in those
22 studies, things of that nature.

23 BY MR. BAYMAN:

24 Q. Turn, if you would, to Page 5 of the report which is Page
25 11 of Exhibit -- can we pull that up?

1 A. Okay.

2 Q. And do you see Table 5 there?

3 A. Yes, I do.

4 Q. What does this table show?

5 A. This shows the baseline score, meaning when patients come
6 into the study before they get randomized to any treatment, an
7 assessment is made of how they're doing at that time. That's
8 the baseline. And then you can compare that to each
9 subsequent analysis to see if they're getting better or
10 changing.

11 So at baseline before they received treatment, this
12 is the kind of rating score on the Hamilton depression suicide
13 item, which is Item 3. And as I said earlier, zero is no
14 suicidality. 4 is all the way up to a suicide attempt before
15 enrollment.

16 Q. So what does this tell you about where the patients were
17 with respect to suicidality prior to being given either Paxil
18 or placebo or active control?

19 A. Right. So this indicates that most patients in the study
20 had a score above zero, so they had some thoughts of at least
21 wanting to die and above. Only about 25 percent or so had no
22 thoughts of suicidality. And as I said, that's not unexpected
23 in a study of depression because suicidal thinking can be part
24 of the disease.

25 What you also see here is the paroxetine patients may

1 have had some higher severity as if you look at the 3 and 4
2 items of the Hamilton rating scale which are more severe
3 suicidality, the paroxetine patients as compared to the
4 placebo patients were at the higher score at baseline.

5 Q. And what's the significance of all this to you?

6 A. So suicidal thinking, suicidal behavior is a risk factor
7 for later suicidal attempts or suicides. So those patients
8 could be at increased risk of those behaviors in the studies.

9 Q. Does it tell you anything about whether it's appropriate
10 to compare all the paroxetine patients from all the various
11 trials against just placebo-controlled patients?

12 A. No. The other thing to point out is, if you look at the
13 active comparator on the end which is also active drug, they
14 also have evidence of a more severe baseline. So in some of
15 these studies, we had Paxil versus another medicine. There's
16 no placebo.

17 In those studies, the investigator, although not
18 knowing exactly whether they'll get Paxil or the comparator
19 medicine, know they're going to get a medicine, so there may
20 be more severe patients that go into those types of studies.
21 And I think that's why you see the higher amount of
22 suicidality in Paxil and active comparator with low in placebo
23 because in a placebo study, if an investigator knows that
24 their patient may not get an active medicine, they may not
25 enroll a more severe patient.

1 Q. An active medicine, is that a medicine that would -- to
2 treat the disease?

3 A. Yes. It's a medicine to treat the disease.

4 Q. Now, in your practice and experience, have you
5 administered Hamilton depression rating scales to patients?

6 A. Yes, I have.

7 Q. Just tell the jury how that -- briefly how that works and
8 what kinds of things people are asked.

9 A. So the Hamilton Depression Rating Scale goes through a
10 number of the symptoms that are associated with major
11 depressive disorder including, an important one, depressed
12 mood, including items around sleep, including items around
13 agitation, anxiety and, of course, items around suicidality.

14 And each item has the same sort of zero through 4 --
15 or actually, not all of them are through 4, but they give a
16 number that anchors it to a specific level of severity. And
17 usually in these scales, the lower number is absent symptom.
18 The higher number is the most severe.

19 Q. What does 4 mean?

20 A. 4 for the Hamilton item means suicide attempt.

21 Q. Attempt?

22 A. Yeah.

23 Q. And tell the jury, as a practical matter, how is it -- how
24 is -- the Hamilton-D, how is it given and what kinds of
25 questions, how are the questions phrased?

1 A. Typically, the investigator would have the rating scale in
2 front of them, and you would go through the order. So for
3 example, when describing depressed mood or asking about that,
4 you might ask the patient, "Can you tell me a bit about your
5 mood? How have you been doing?"

6 Elicit that information from them. And then you
7 anchor it. For suicidal thinking, you may say, "In the past
8 two weeks" or whenever the time was you last saw them, "have
9 you had any thoughts of wanting to die, any thoughts of
10 wanting to harm yourself" and investigate that.

11 So for each one, you specifically elicit the
12 information and then record the number based on their response.

13 Q. And are they asked over like a certain time period like,
14 "In the past two weeks, have you ever" --

15 A. Yes. It's related to a time period such that it's usually
16 the last study visit, for example.

17 Q. And are they asked specific questions, "Have you thought
18 about killing yourself?"

19 A. Yes.

20 Q. "Have you thought about not waking up?" They're asked
21 questions like that?

22 A. Yes. You have to ask specific questions to fill this out.

23 Q. Let's look at then completed suicides, if you would turn
24 to Page 1 of the report which is actually Page 7 of the
25 exhibit. Can we pull that up?

1 A. Okay.

2 Q. What is this -- this is the information about the number
3 of suicides in the trials?

4 A. Yes, it is.

5 Q. And what does it say with respect to how many completed
6 suicides occurred on patients who were randomized to
7 paroxetine?

8 A. It speaks to ten suicides were committed by patients who
9 participated in the worldwide paroxetine clinical trials.
10 Five suicides were committed by patients who were randomized
11 to paroxetine. Two were committed by patients who were
12 randomized to placebo. And three were committed by patients
13 randomized to other active control regimens.

14 Q. Let's go down to the bottom of the page, Table 1. The
15 jury has seen this previously, but one thing I want you to, if
16 you would, explain, there's a shorthand there called PEY.
17 What does that mean?

18 A. I touched on that a little earlier. That is patient
19 exposure year. So as I described, patients in these studies
20 were more likely to be on paroxetine for a longer period of
21 time. And again, for a disease like depression where suicidal
22 thoughts and behaviors are part of the disease, over time,
23 these may occur in the course of depression.

24 So part of trying to kind of normalize for that is to
25 look at the total patient years of exposure. So that's adding

1 up all the weeks the patients have been exposed or treated
2 with the medicine and taking that and dividing the total
3 number of cases. So it kind of gives you a rate over time
4 that would occur. And in this instance, we see the rate over
5 time for paroxetine was .005 as composed -- compared to .028
6 for placebo and .014.

7 And what you can also see is there's really a low
8 number of exposure years for placebo compared to paroxetine.
9 And that makes sense because the placebo part of these trials
10 was typically limited to the acute phase, eight weeks, for
11 example, whereas some of the Paxil exposure parts of the
12 trials could be up to 52 weeks as we described.

13 Q. And then read the phrase underneath the table.

14 A. The phrase underneath the table, "There were no
15 substantive differences in the number or incidence of suicides
16 among treatment groups."

17 Q. What does that mean?

18 A. That when looking at the percentages as well as normalized
19 for exposure time, there did not appear to be differences
20 among these groups.

21 Q. Does it show whether -- when you look at it using the
22 patient exposure years, does it show whether patients taking
23 Paxil were more likely to commit suicide than patients taking
24 placebo?

25 A. No, it does not.

1 Q. And what about Paxil with respect to active control, the
2 other antidepressants that were in the trials?

3 A. There was no increase in paroxetine compared to the active
4 controls. It was smaller.

5 Q. Why does the duration of exposure to Paxil versus placebo
6 have such importance when analyzing the data?

7 A. Again, the longer you observe a condition over time, you
8 begin to see symptoms of that condition. So the longer you
9 watch, again, for depression where suicidality is part of the
10 disease, the more likely you may see it. So it helps to
11 control over time what that natural rate may be.

12 Q. I went to law school because I wasn't good at math, but
13 that difference in number is about 14 times greater, right?

14 A. For which ones?

15 Q. Between the duration of exposure on Paxil --

16 A. Oh, for the exposure.

17 Q. -- versus placebo.

18 A. Yes.

19 Q. Have you -- based on your work in this case and your
20 review of the opinions of the plaintiff's experts, you're
21 familiar with Dr. Healy's opinion that it's inappropriate to
22 analyze data for suicide events using patient exposure years
23 because the risk is at the start of therapy and when the
24 medication is discontinued?

25 A. I've heard that, yes.

1 Q. Okay. What's your reaction to that?

2 A. My reaction is, I disagree with that given that the
3 disorder is major depressive disorder where suicidality is a
4 part of the disease. It would be similar to ignoring in
5 long-term cancer studies the development of tumors or ignoring
6 in long-term statin studies heart attacks if you don't
7 normalize over time because those things happen naturally as
8 the age. So I disagree.

9 Q. Let's look at, again, quickly, Paragraph 3 on the same page.

10 A. Okay.

11 Q. And let's highlight that, please. What is that -- what is
12 that telling us?

13 A. This is essentially providing where in the study this
14 occurred for the placebo suicides and that they -- two
15 suicides committed by the patients on placebo occurred during
16 that run-in phase.

17 Q. And what's the significance of the minus 2, minus 7?

18 A. That's how many days before they would have been
19 randomized to Paxil or placebo.

20 Q. So did GSK disclose the fact that two suicides in placebo
21 patients occurred during the run-in?

22 A. Yes.

23 Q. When GSK makes submissions, regulatory submissions to FDA,
24 does the company expect and assume that the FDA reads the
25 reports it submits?

1 A. Yes.

2 Q. Now, why were placebo run-in events even included in this
3 analysis?

4 A. For the same reason that all the Paxil extension suicides
5 were included in the analysis. It was capturing all the
6 events that occurred across all phases of the studies. And it
7 actually says that in the methodology, that all data from
8 worldwide studies irrespective of time on therapy were
9 considered for the analysis of safety and the reporting of
10 adverse experiences.

11 Q. Did any of the five suicides that occurred in the
12 paroxetine patients happen in placebo-controlled trials?

13 A. They did not occur during placebo-controlled phases, no.

14 Q. Did including suicides committed by patients taking
15 paroxetine outside of placebo-controlled trials have any
16 effect on the analysis?

17 A. Yes, because it increased the number of Paxil suicides,
18 yes.

19 Q. Then why did GSK do that?

20 A. Because the methodology was --

21 MR. WISNER: Objection, lacks foundation. He wasn't
22 there.

23 THE WITNESS: It's written in the report.

24 THE COURT: Well --

25 THE WITNESS: I'm sorry.

1 THE COURT: You're running into argument now. Yes,
2 sustained.

3 BY MR. BAYMAN:

4 Q. What did the FDA ask the companies to do who submitted
5 these reports at the time? What did they ask to be included?

6 A. To provide all adverse events of suicidality throughout
7 the trials.

8 Q. And is a run-in period included part of the trial?

9 A. Yes, because the patient has provided informed consent, so
10 those adverse events are recorded.

11 Q. Now, based on your work reviewing the data when you took
12 responsibility for Paxil, do you have an opinion as to if you
13 took the two placebo suicides that occurred during the run-in
14 and took them out of this analysis but left the five placebo
15 suicides from the non-placebo controlled studies in, would
16 there be a statistically significant difference between Paxil
17 and placebo with regard to completed suicides?

18 A. No, but I don't think that's a valid analysis unless you
19 remove the paroxetine uncontrolled portions as well.

20 Q. Why not?

21 A. For the reason we said earlier. If you're trying to
22 understand the difference between treatment versus what might
23 happen naturally over time, you have to look at the drug and
24 the placebo side by side concomitantly. At the time of this
25 submission, the placebo suicides occurred before that

1 randomization. And the paroxetine suicides either occurred in
2 the extension phase without any placebo or with just an active
3 comparator where you couldn't describe it.

4 So to take out just the run-ins but to leave all the
5 Paxil data doesn't make any sense and is inappropriate
6 analysis, but if you did it, it wouldn't be statistically
7 significant.

8 THE COURT: It wouldn't what, sir?

9 THE WITNESS: It wouldn't be statistically
10 significant. So if you chose to run that analysis again,
11 which I don't agree with, but...

12 BY MR. BAYMAN:

13 Q. All right. Let's take a look at the category of suicide
14 attempts. Would you turn to -- it's Page 2 of the report,
15 Page 8 of the exhibit. It's Table 2.

16 A. Okay.

17 Q. How many Paxil patients made a suicide attempt in the
18 clinical trials that were part of the report?

19 A. 40 patients in the paroxetine group.

20 Q. And what was included broadly in the definition of a
21 suicide attempt in this analysis, what kinds of things?

22 A. It was any evidence of self-harm so, you know, something
23 as minor as, you know, slapping oneself all the way to
24 actually a serious attempt.

25 Q. And then how many placebo attempts were reported here?

1 A. 6.

2 Q. And then how many for the active comparator?

3 A. 12.

4 Q. If the number of suicide attempts reported in 1989 to the
5 FDA by GSK was 42 but in 1991, GSK reported 40, what's the
6 explanation for that?

7 A. The explanation is that the 42 was likely two subject
8 numbers counted twice. So if you look at all the subject
9 numbers with a suicide attempt, that actually lines up to 40,
10 although two of those subjects may have had two attempts.

11 Q. So -- and based on your work in getting up to speed to
12 take responsibility of Paxil and the documents you reviewed
13 and the people you talked to, was there an attempt made to
14 reconcile the database between 1989 and 1991?

15 A. Yes, yes, there was, to ensure that that was an accurate
16 representation of the subject numbers.

17 Q. Did GSK inform the FDA that some of the suicide attempts
18 for placebo patients occurred during the run-in?

19 A. We did inform FDA of that.

20 MR. BAYMAN: Let's pull up Plaintiff's Exhibit 75,
21 which is admitted into evidence, your Honor. That's the 1989
22 integrated safety summary.

23 THE COURT: You may proceed.

24 BY MR. BAYMAN:

25 Q. Let's just go quickly. What is this document, Doctor?

1 It's Tab 14.

2 A. So this is what's called the integrated safety summary
3 which is part of the new drug application that contains all of
4 the safety information from all the studies in kind of a
5 combined manner, integrated.

6 Q. Let's go to 206, Table XXI.21. Are you familiar with this
7 table?

8 A. Yes.

9 Q. And let's just -- does this table include any information
10 on whether any of the placebo suicide attempts during the
11 run-in period happened during the run-in period?

12 A. Yes. There's an asterisk indicating that two of the
13 overdoses occurred during the run-in period.

14 Q. All right. Turn, if you would, then, Tab 16.

15 MR. BAYMAN: You can take that down.

16 THE WITNESS: Okay.

17 MR. BAYMAN: That's defense Exhibit 305, your Honor.

18 BY MR. BAYMAN:

19 Q. What is this document?

20 A. This is the clinical review of the new drug application by
21 Martin Brecher of FDA.

22 Q. Who is Dr. Brecher?

23 A. He was the FDA-assigned clinical reviewer to make a
24 judgment about the safety and efficacy of the application
25 submitted.

1 Q. Did this report reflect the FDA's analysis of Paxil safety
2 based on the data in the new drug application?

3 A. Yes, it did.

4 Q. Does this report reflect the FDA's official activities?

5 A. Yes, absolutely.

6 Q. And is this a document that the company relied on in
7 making decisions regarding paroxetine or Paxil?

8 A. Yes.

9 Q. And is this a document that you reviewed and relied on
10 based on your work in getting up to speed in Paxil and in
11 getting -- for giving opinions in this case?

12 A. Yes.

13 MR. BAYMAN: Your Honor, at this point, I move to
14 publish this. It was shown during Dr. Ross's testimony.

15 MR. WISNER: No objection.

16 THE COURT: You may proceed.

17 BY MR. BAYMAN:

18 Q. Let's turn quickly, since it's been shown before, to --
19 bring up 305.28. Page 23, Doctor.

20 A. Okay.

21 Q. Does this -- is what we're bringing up up on the screen
22 say anything about whether FDA was aware that GSK's 1991
23 suicidality report included patients who committed suicide
24 during the placebo run-in?

25 A. Yes. It shows he was aware. He listed it.

1 Q. Okay. And could you look at the very bottom of the page?

2 A. Yes.

3 Q. Does this give information about the patients who
4 committed suicide during the placebo run-in?

5 A. Right. It gives a brief summary, their subject number,
6 and the time it occurred in the placebo run-in.

7 Q. Did FDA or Dr. Brecher in this report include those
8 suicides that occurred during the placebo run-in in his
9 analysis of the data?

10 A. Yes, he did.

11 Q. Okay. Does that have any significance to you when
12 considering the argument advanced by the plaintiff's expert
13 that it was improper for GSK to have included placebo run-in
14 events in the 1991 report, in your opinion?

15 MR. WISNER: Objection, argument.

16 THE COURT: Yes, that's argument.

17 BY MR. BAYMAN:

18 Q. Did the FDA include suicide events during the run-in when
19 it did its analysis?

20 A. Yes.

21 MR. WISNER: Objection, asked and answered.

22 THE COURT: You may answer.

23 THE WITNESS: Yes, they included them.

24 BY MR. BAYMAN:

25 Q. Turn, if you would, to Page 25. It's Page 30 of the

1 exhibit, the middle of the page. What did Dr. Brecher
2 conclude when he did his review and analysis of the Paxil,
3 paroxetine, suicidality?

4 MR. WISNER: Your Honor, I think for completeness,
5 the table that he's talking about should be displayed as well.

6 THE COURT: Well, you can do that on cross-
7 examination.

8 MR. BAYMAN: Yes. I just wanted his conclusion.

9 MR. WISNER: Okay. We don't have to look at the
10 table?

11 MR. BAYMAN: He said you can do it on cross.

12 MR. WISNER: Okay.

13 BY MR. BAYMAN:

14 Q. Go ahead.

15 A. The conclusion is that there is no signal in this large
16 database that paroxetine exposes a subset of depressed
17 patients to additional risk for suicide, suicide attempts, or
18 suicidal ideation.

19 Q. Now, in reaching his conclusion in the report, did
20 Dr. Brecher discuss only the differences in numbers between
21 suicides and suicide attempts, or did he look at other
22 measures and data points?

23 A. He also reviewed the patient exposure years, as we've
24 discussed earlier, and also reviewed the rating scale,
25 emergent suicidality as well.

1 Q. Now, you're -- are you aware -- you can take that down.

2 Are you aware from your work in this case that
3 Dr. Ross and Dr. Glenmullen have attempted to correct the
4 numbers that GSK submitted to FDA in the NDA on the number of
5 suicides and suicide attempts for paroxetine to remove the
6 placebo run-in events?

7 A. I have seen that, yes.

8 MR. BAYMAN: At this point, your Honor, we'd move for
9 permission to publish Slide 7036-16, which is Table 3 from
10 Dr. Ross's report that's been previously shown to the jury.

11 MR. WISNER: No objection beyond the fact that this
12 is argument.

13 THE COURT: You may show it.

14 MR. BAYMAN: Thank you.

15 Can you blow that up? And then -- thanks.

16 BY MR. BAYMAN:

17 Q. Have you seen this chart before?

18 A. Yes.

19 Q. Okay. In your opinion, is this a proper way to analyze
20 the data?

21 A. No.

22 Q. Why not?

23 A. As I described before, what this does is takes one part of
24 the uncontrolled study and removes it, so the placebo run-in,
25 and yet still keeps the other uncontrolled part of the study,

1 so the longer-term Paxil extension.

2 If you are going to assess whether or not the drug
3 may contribute to a signal or a risk of suicidality, you need
4 that placebo comparison group. So what you would have to do
5 here is actually remove the non-controlled paroxetine suicides
6 or suicide attempts if you wanted to make this comparison.

7 Q. To your knowledge, has F -- based on your experience, has
8 FDA ever utilized this methodology employed by the plaintiff's
9 experts for assessing suicidality risk with any SSRI,
10 antidepressant, or psychiatric medication since 1999?

11 A. No.

12 MR. WISNER: Your Honor, at this time, we would move
13 Plaintiff's Exhibit 258 into evidence. They've used a portion
14 of it here which is Dr. Ross's report, and for the rule of
15 completeness, the jury should have the benefit of the entire
16 document.

17 THE COURT: Well, you can deal with that on
18 cross-examination.

19 MR. BAYMAN: Thank you, your Honor.

20 Take that down, Mr. Holtzen, please.

21 BY MR. BAYMAN:

22 Q. Did GSK go back at some point and reanalyze the data on
23 suicide and suicide attempts from the new drug application
24 submission looking at only events that occurred in the
25 controlled portions of randomized double-blind

1 placebo-controlled trials?

2 A. Yes, we did.

3 MR. BAYMAN: At this point, your Honor, I move to
4 display Plaintiff's Exhibit 124, which is admitted into
5 evidence.

6 THE COURT: You may.

7 THE WITNESS: Which tab are we on?

8 BY MR. BAYMAN:

9 Q. I'm sorry. Tab 18. Are you familiar with this document?

10 A. Yes, I am.

11 Q. Is this something that you reviewed when you were getting
12 up to speed for your responsibilities with respect to Paxil
13 and paroxetine?

14 A. Yes, it was.

15 Q. What is this document?

16 A. This document is a communication memo from a conversation
17 with GSK regulatory with FDA, Tom Laughren. And it details
18 our intention to evaluate the suicides and suicide attempts in
19 the new drug application looking at the placebo-controlled
20 portions of the trial.

21 Q. What was Dr. Wheadon's responsibility at the time?

22 A. He was senior vice president of U.S. regulatory affairs.

23 Q. And did he have responsibility for -- one of the people
24 for interacting with the FDA?

25 A. Yes.

1 Q. Let's pull up the first paragraph. It says:

2 "I spoke to Dr. Tom Laughren of the FDA
3 neuropsychopharmacology division last Wednesday, April 10,
4 concerning the updated Paxil analyses on suicide
5 attempts. I explained to Dr. Laughren that subsequent to
6 ongoing defense of Paxil cases, the issue of attempts in
7 patients on placebo during placebo run-in had been
8 debated and a decision had been made to reanalyze the
9 original NDA data on suicide attempts, doing the apples
10 to apples comparison."

11 What does "apples to apples" mean in this context?

12 A. So that's the like to like, so that placebo-controlled
13 phase where both the placebo arm and the drug arm are being
14 observed at the same time, treated the same way under the same
15 conditions.

16 Q. And then he describes the analysis that the company was
17 doing?

18 A. Yes, those three bullets there.

19 Q. And then as part of your work in getting up to speed to
20 take over your responsibilities with respect to paroxetine,
21 did you talk to the statistician that was involved in
22 preparing this report?

23 A. Yes. I've worked with -- John Davies is the statistician
24 who did this report. I've worked with him for years.

25 Q. And Mr. Davies testified by video in this case previously.

1 Based on what you've learned in your work and in reviewing of
2 the Paxil file, do you have an understanding of the reference
3 to "ongoing defense of Paxil cases"?

4 A. Yes, I do.

5 Q. What is that understanding?

6 A. It's related to, I guess, some of the issues that we're
7 discussing today in terms of the placebo run-in. There had
8 been litigation issues in the past related to this issue.
9 They had come up as they are now, and they led to our trying
10 to use some of that new information to do the scientifically
11 appropriate assessment of the NDA based on this concept of
12 like to like, apples to apples.

13 Q. Did Dr. Wheadon -- does Dr. Wheadon's memo indicate that
14 GSK disclosed to the FDA that it had previously included
15 run-in events in the placebo category?

16 A. Yes.

17 Q. And did it -- and, in fact, did GSK go ahead and do that
18 reanalysis?

19 A. Yes, we did.

20 MR. BAYMAN: Turn, if you would, to Tab 19.

21 You can take that down, Mr. Holtzen.

22 This is Plaintiff's Exhibit 129, which is already
23 admitted into evidence, your Honor. Permission to publish to
24 the jury.

25 MR. WISNER: No objection.

1 THE COURT: You may proceed.

2 MR. BAYMAN: You're -- can you please blow that up?

3 BY MR. BAYMAN:

4 Q. This is Dr. -- or Mr. Davies who you mentioned a minute ago?

5 A. Yes.

6 Q. You're familiar with this document?

7 A. Yes, I am.

8 Q. What is it?

9 A. This is the report from the analysis that we described
10 that we would do to the FDA. This one in particular is about
11 the data on suicides.

12 Q. I want to ask you about one particular study that's been
13 mentioned in this trial, and that is Study 004. Can you turn
14 to -- bring up Page 2, the first paragraph?

15 What does this document say about Study 04, excuse
16 me, not 004?

17 A. Study PAR-04 was excluded from the analysis because of its
18 design. It was an extension study of PAR-03 including an
19 element of crossover between treatments of the two studies.

20 Q. Are you -- have you gone back and looked at Study 04?

21 A. Yes.

22 Q. Okay. Why -- what was the design or what was it about the
23 design of Study 04 that led it to be excluded from this
24 analysis?

25 A. So the study looked at three different groups treated with

1 active comparator, paroxetine, and placebo over time. Then
2 there was an extension phase at the end where non-responders
3 could then switch to an active treatment or stay on their
4 original treatment. So essentially, you have randomization,
5 and then at the point of the extension phase, you kind of have
6 an enriched responder group. So the group populations were a
7 bit different in this study.

8 Q. Why doesn't the fact that there was a placebo group in
9 Study 03 make Study 04 a placebo-controlled study?

10 A. Because at the time of that extension, the placebo, the
11 patients who stayed on would have been considered responders,
12 so it wasn't an appropriate randomization. And also, some of
13 those placebo groups that started switched on to Paxil, so the
14 numbers also changed.

15 Q. Was Study 03 included in the analysis?

16 A. Yes.

17 Q. Now, the fact that Study 04 was excluded from this
18 analysis, does that mean that GSK ignored that study?

19 A. No. Indeed, we wrote why we didn't include it in this note.

20 Q. And did GSK report the suicide in Study 04?

21 A. Yes.

22 Q. And did they report on it, in fact, in a different section
23 of this report?

24 A. Yes.

25 Q. Did GSK provide information to FDA about the suicide in

1 Study 04 even though it was not part of the calculation in the
2 2002 analysis?

3 A. Yes, of course.

4 Q. Was -- as part of your work in your job responsibilities,
5 were you familiar with the clinical trials, GSK Paxil clinical
6 trials that were submitted to FDA when it did its analysis in
7 2006?

8 A. Yes.

9 Q. Was Study 04 included -- well, first of all, was it
10 included in the analysis that GSK did of its own data, adult
11 data, in 2006?

12 A. No, it was not.

13 Q. Why not?

14 A. For the same reasons. It's not the acute part of the
15 placebo-controlled study.

16 Q. Was it submitted, requested and submitted to the FDA as
17 part of its analysis in 2006?

18 A. No. This, it was not a study that FDA requested for the
19 same reasons I just described.

20 MR. BAYMAN: Let's pull up at the bottom of the page
21 the results.

22 BY MR. BAYMAN:

23 Q. Just summarize the results, if you would, Doctor.

24 A. And again, this is for suicide. So in the placebo-
25 controlled portions of the trials, there were no completed

1 suicides in either the paroxetine group or the placebo group
2 for those sets of studies that supported the original approval
3 for major depressive disorder.

4 Q. And does it indicate whether the placebo suicides that
5 occurred during the run-in, does it indicate whether those
6 were included or excluded?

7 A. It indicates that they're excluded, but it does highlight
8 them in the last bullet or statement below.

9 Q. Were those the same two placebo run-in suicides that were
10 reflected in the earlier reports that we looked at?

11 A. Yes, they're the same ones.

12 MR. BAYMAN: Turn, if you would, to Tab 15.

13 Your Honor, this is Plaintiff's Exhibit 122, which is
14 also admitted into evidence. Permission to publish.

15 THE COURT: Proceed.

16 BY MR. BAYMAN:

17 Q. What is this analysis?

18 A. This is the analysis around suicide attempts from the
19 original clinical data set that contributed to the approval
20 for major depressive disorder.

21 Q. Let's look at Page 2 in the chart at the bottom. With
22 respect to suicide attempts from the randomized double-blind
23 placebo-controlled trials, what were the results of this
24 reanalysis?

25 A. So this analysis of again the like-to-like, the placebo-

1 controlled portions of the study found 5 out of 921 attempts
2 on paroxetine versus 1 out of 544 out of placebo. That was
3 not statistically significant, and it was also controlled for
4 the patient exposure years. Again, we have -- even in the
5 placebo-controlled portion, there are longer exposures for
6 paroxetine than for placebo and they -- we do highlight again
7 that five patients with attempted suicide have been excluded
8 from the figures above for the placebo group because they
9 occurred during the placebo run-in, and we list those subject
10 numbers.

11 Q. Did this analysis reflect an increased risk for suicide
12 attempts for patients who were taking Paxil?

13 A. No, it didn't.

14 Q. Put the statistics aside, Doctor. As a clinician who's
15 treated hundreds of patients, you said earlier, at risk for
16 possible suicide, do these numbers give you any pause?

17 A. Well, I've treated thousands, but they don't give me --

18 Q. Okay.

19 A. -- pause in terms of the frequency. These are both very
20 low frequency.

21 Q. Do the number of suicide or suicide attempts on
22 paroxetine, or Paxil, is that surprising to you?

23 A. It's only surprising that it's low because in the major
24 depressive group, you may expect more when looking at 1,000
25 patients. However, in clinical trials, as we said before, we

1 want to ensure the safety if a patient may go on to placebo.

2 So these patients may have been at lower risk.

3 Q. Based on your experience, would it surprise you if there
4 were no suicides on Paxil, or paroxetine, in the clinical
5 trials?

6 A. It is surprising given the nature of the disease, but as I
7 said before, in clinical trials, you're typically trying to
8 not include patients that might be at acute risk of suicide
9 for the reasons we discussed before. The safety of the
10 patient in the trials is very important.

11 Q. So did the two analyses we've just looked at, in your
12 opinion, say anything to you based on your experience about
13 whether it mattered one way or another whether GSK did or did
14 not count the placebo run-in events back in 1991?

15 A. The conclusions are the same in both analyses. There's no
16 evidence of an increased risk with paroxetine compared to
17 placebo.

18 Q. Do you feel one analysis is better than the other?

19 A. When you are trying to understand whether an adverse event
20 might be related to drug treatment versus no drug treatment,
21 the placebo-controlled analysis that we're looking at now is
22 the analysis to perform. And again, that's what FDA asked us
23 to perform in 2006 as we got there.

24 MR. BAYMAN: You can take that down, please.

25 BY MR. BAYMAN:

1 Q. Let's be clear. From the time of first approval of Paxil
2 in 1992, did FDA continue to evaluate Paxil's safety both
3 generally and specifically with respect to suicidality?

4 MR. WISNER: Objection, lacks foundation.

5 BY MR. BAYMAN:

6 Q. Do you know that from your review of the file --

7 A. The answer is clearly yes given all these analyses we've
8 looked at.

9 Q. And after FDA -- based on your review of the Paxil file in
10 order to perform your job responsibilities and including your
11 conversations with others who were there at the time, after
12 FDA received the re-analyses that we've just looked at, those
13 two submissions, did FDA take any action indicating that it
14 would not have approved Paxil had it received more information
15 about the Paxil run-in events?

16 A. No.

17 MR. WISNER: Objection, speculation. Move to strike.

18 THE COURT: Sustained.

19 BY MR. BAYMAN:

20 Q. After FDA received the re-analyses that we just looked at,
21 did FDA ask GSK to make any changes to the Paxil label
22 concerning suicidality?

23 A. No.

24 MR. WISNER: Objection. Move to strike.

25 THE COURT: Now, wait. What time are we talking

1 about, what timeframe?

2 MR. BAYMAN: 2002-2003 when they received the analysis.

3 THE COURT: He wasn't there then.

4 MR. BAYMAN: But he's reviewed the file. He's
5 reviewed the regulatory --

6 THE COURT: Based on the file?

7 MR. BAYMAN: Yes, sir.

8 THE COURT: Okay. With the understanding it's based
9 on the file --

10 MR. BAYMAN: Correct.

11 THE COURT: -- he may answer.

12 MR. BAYMAN: His review of the file, right.

13 BY THE WITNESS:

14 A. Right. The answer is no.

15 BY MR. BAYMAN:

16 Q. Turn, if you would, to Tab 20 in your notebook. What is
17 this document?

18 A. This is what's called an -- excuse me -- FDA talk paper.
19 It's posted by FDA to provide information on an issue that is
20 of interest to them.

21 Q. Does this talk paper communicate FDA's official activities
22 and views?

23 A. Yes, it does.

24 Q. Do you and your colleagues at GSK regularly review FDA
25 talk papers?

1 A. Yes, we do.

2 Q. Do you and your colleagues at GSK rely on FDA talk papers
3 to understand the FDA's view of a particular subject?

4 A. Yes, in addition to direct correspondence with the company,
5 but yes.

6 Q. And does this talk paper relate to paroxetine and
7 suicidality?

8 A. Yes, it does.

9 THE COURT: What exhibit number is this? You said
10 Tab 20.

11 MR. BAYMAN: I'm sorry. It's Exhibit, defense
12 Exhibit 414, your Honor.

13 BY MR. BAYMAN:

14 Q. Does -- you said FDA posts these talk papers. Where do
15 they post them?

16 A. They have a website where these are posted.

17 Q. Does this document provide context for GSK's decision
18 regarding paroxetine and suicide based on your review of the
19 Paxil file for purposes of getting up to speed to perform your
20 job responsibilities?

21 A. Yes.

22 MR. BAYMAN: Your Honor, I would at this point move
23 for admission under Rule 803(8) and for permission to publish
24 the talk paper.

25 MR. WISNER: Your Honor, pretrial, they moved to

1 exclude any reference to pediatrics, objected numerous times
2 during our case in chief. The title of this is regarding
3 antidepressant Paxil for pediatric population. So goose and
4 gander here. If they're going to strike all that stuff from
5 our case, they can't suddenly bring it in after we've closed.

6 MR. BAYMAN: Judge, the pediatric story has been
7 touched. I'm not going into pediatrics. There's some
8 statement about adults in here that I want to use. I'm not
9 opening the pediatric story up. There's been plenty brought
10 up by the plaintiffs about pediatrics.

11 THE COURT: What part of this are you interested in?

12 MR. BAYMAN: I was going --

13 THE COURT: Just without reading it --

14 MR. BAYMAN: The second paragraph, second sentence,
15 your Honor.

16 THE COURT: Of the second -- of the first page?

17 MR. BAYMAN: Yes, sir.

18 THE COURT: Let me look at it.

19 MR. WISNER: To the extent they're offering that
20 sentence, I'd object under hearsay grounds.

21 THE COURT: Is that the paragraph beginning, "The
22 Food and Drug Administration said today," is that what you --
23 is that the paragraph?

24 MR. BAYMAN: Your Honor, I'll move on to another
25 topic. I'll withdraw it.

1 THE COURT: All right.

2 BY MR. BAYMAN:

3 Q. As part of your work in this case, are you familiar with
4 the plaintiff's expert witness's opinions that GSK somehow hid
5 suicide-related adverse events by using the coding term
6 "emotional lability"?

7 A. I have heard that, yes.

8 Q. Do you agree with their assertions that suicide events
9 were -- GSK hid suicide events by coding them as "emotional
10 lability"?

11 A. No, because they are reported as suicide attempts and
12 suicides.

13 Q. Doctor, based on your experience as a psychiatrist, what
14 does emotional lability mean?

15 A. Emotional lability can subsume a number of behaviors:
16 Rapid changes in mood, irritability including behavior changes
17 which could also subsume suicide attempts, things of that
18 nature.

19 Q. And a phrase has been used in the trial, "coding."

20 A. Yes.

21 Q. Coding term.

22 A. Yes.

23 Q. Can you explain how this process works?

24 A. Yes. So coding, think of it as a way of trying to get a
25 bunch of different information to kind of map to a consistent

1 information so you can compare across different studies. So
2 one example is, an investigator hears from a patient, "I'm
3 throwing up." They write down, adverse event, throwing up.
4 The investigator hears from a patient, "I have upchucked."
5 They write that down. The investigator writes down, "I
6 vomited."

7 So all of those are the same things, but they're
8 different verbatim terms. So these coding dictionaries have
9 been developed to allow those to be mapped to a common term.
10 So the verbatim gets mapped to a code that can then be
11 understood across different studies and programs like
12 "vomiting" in that case.

13 So that's what a coding dictionary does. It takes
14 those verbatim or as-said terms and makes them translatable
15 across studies.

16 Q. And for those of us that are non-technical, when you say
17 "dictionary," you don't mean a Webster's dictionary, you mean
18 a computer database?

19 A. Yeah, a database that contains all of these codes.

20 Q. And how was the term "emotional lability" used in GSK's
21 adverse event reporting from the Paxil clinical trials?

22 A. The coding dictionary at the time of the Paxil clinical
23 trials did not include a code for suicide attempts. It did
24 include a code for overdoses, so overdoses that could be
25 suicide attempts could be mapped to that. So in choosing

1 where suicide attempts could be mapped to, the emotional
2 lability master code was chosen for the reasons I had outlined
3 before.

4 Q. Is it correct to say that GSK never informed the FDA about
5 the meaning of the term "emotional lability" or how it was
6 used?

7 A. No, that's incorrect.

8 Q. I want to just -- we've seen these before. I want to just
9 do it very briefly, but take a look, if you would, at Tab 14,
10 which is Plaintiff's Exhibit --

11 THE COURT: All right. We'll take a break now.

12 (Recess from 2:58 p.m. to 3:15 p.m.)

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1 (Change of reporters, Vol. 15-C.)

2

3 (Jury enters courtroom.)

4 THE COURT: All right. Thank you very much, ladies
5 and gentlemen. Please be seated. We'll resume.

6 MR. BAYMAN: Thank you, your Honor.

7 THE COURT: Proceed, sir.

8 MR. BAYMAN: Your Honor, at this point, I'd move for
9 permission to publish Plaintiff's Exhibit 75. That's Tab 14
10 in your book, which is admitted already into evidence.

11 THE COURT: You may proceed.

12 MR. BAYMAN: Thank you.

13 BY MR. BAYMAN:

14 Q. Dr. Kraus, if you'll turn to Tab 14.

15 A. Yes, the integrated safety study.

16 Q. Was that submitted to the FDA from GSK or SmithKline
17 Beecham at the time?

18 A. Yes.

19 Q. When was that?

20 A. This was probably submitted in '89, yes, November of '89.

21 Q. Does it contain summaries of suicide attempts that
22 occurred during the MDD major depressive disorder clinical
23 trials of paroxetine?

24 A. Yes, it does.

25 Q. If you turn to page 207, middle of the bottom of the page.

1 Pull that up, please.

2 Do you see that?

3 A. Yes.

4 Q. And then turn over to page 208a. What's on this page,
5 Doctor?

6 A. This is a case narrative of an adverse event of a suicide
7 attempt. The first one is overdose. The second one is
8 suicide attempt.

9 Q. How is the event here, suicide attempt, how is that --
10 to what preferred term is that coded?

11 A. Right. In the -- you take a look at the adverse
12 experience, you see at the end something called PT, which is
13 that preferred term, the mapping that we talked about. So,
14 you see listing the suicide attempt, and as we described, we
15 mapped that to emotional lability.

16 Q. And based on your review of the Paxil data and the
17 regulatory file, have you seen other documents in which GSK
18 has identified suicide-related adverse events as being coded
19 to the preferred term emotional lability?

20 A. Yes.

21 MR. BAYMAN: You can take that down.

22 BY MR. BAYMAN:

23 Q. Did FDA ever tell GSK to change the way emotional lability
24 was being used in the paroxetine label?

25 A. No.

1 Q. Did FDA ever ask GSK to add language to the label to
2 explain how emotional lability had been used?

3 A. No.

4 Q. Did FDA ever tell GSK to do anything at all with respect
5 to coding suicide events under the preferred term emotional
6 lability?

7 A. No.

8 Q. All right. I want to -- let's move forward in our --
9 we've kind of been moving chronologically. And I just want to
10 talk to you about 2004. And no document at this point, but
11 are you aware from your review of the Paxil data, including
12 the regulatory file, that in 2004, the FDA requested
13 manufacturers of 10 antidepressant drugs that they strengthen
14 the warning section of those labels to encourage close
15 observation for worsening of depression or emergence of
16 suicidal thinking in behavior in both adults and pediatric
17 patients being treated with these medications?

18 MR. WISNER: Objection. Leading.

19 THE COURT: Yeah, it sounds leading. It is leading.

20 MR. BAYMAN: Okay. Well, I'm just trying to --

21 THE COURT: It's also rather compound.

22 MR. BAYMAN: Okay. I was just trying to move along.

23 THE COURT: Trying to move along.

24 MR. BAYMAN: Move along, yes, sir.

25 THE COURT: We appreciate that.

1 BY MR. BAYMAN:

2 Q. What was your -- based on your review of the regulatory
3 file and the other Paxil data, what was your understanding of
4 what FDA in 2004 asked antidepressant manufacturers to do with
5 respect to their labels and the issue of suicide?

6 A. This was an update to the label based on some of their
7 ongoing analyses at that time.

8 Q. And did GSK comply with the FDA's request?

9 A. Yes.

10 Q. And did GSK change the Paxil label in 2004?

11 A. Yes, according to the FDA's requirements, yes.

12 Q. And did GSK take any action to alert doctors of the
13 labeling change in 2004?

14 A. Yes. A Dear Health Care Provider letter was distributed
15 that provided the context and the updated label.

16 Q. Turn, if you would, to Tab 22, which is Joint Exhibit 7.

17 MR. BAYMAN: Let's pull that up, please.

18 Permission to publish, your Honor? It's in evidence.

19 THE COURT: Yes.

20 MR. BAYMAN: Thank you.

21 BY MR. BAYMAN:

22 Q. Okay. Are you familiar with that document?

23 A. Excuse me. Yes, I am.

24 Q. What -- tell the jury what a Dear Health Care Provider
25 letter is.

1 A. This is a correspondence from a drug manufacturer that
2 goes out to doctors, physicians that would be treating the
3 disease of interest, to provide any updated information that
4 may be important in their understanding, either the benefit or
5 the risk of the medicine.

6 Q. Okay. Turn --

7 MR. BAYMAN: If you -- bring up the second page.

8 BY MR. BAYMAN:

9 Q. Who signed this letter, Doctor?

10 A. It was Alan Metz.

11 Q. And who was Alan Metz?

12 A. Alan Metz was at that time VP of Medical Worldwide
13 Development North America.

14 Q. Did you work with Dr. Metz when you joined the company in
15 2005?

16 A. Yes, I did.

17 Q. Let's look at the first paragraph, eight lines, starting
18 with, "These labeling changes."

19 MR. WISNER: Your Honor, I'm going to object. This
20 is cumulative. We went through in detail this letter and the
21 attached labeling with it with several witnesses now. This is
22 not even 2007 or '10.

23 THE COURT: There was cross-examination on this by
24 the defendants, as I remember.

25 MR. WISNER: That's correct.

1 MR. BAYMAN: Of Dr. Ross, but we have a GSK witness
2 here, your Honor, who will talk about what GSK did in response
3 to the FDA's request. And this is the -- this is
4 when the warnings as to suicide -- this is when the chronology
5 really begins.

6 THE COURT: All right. You may proceed.

7 MR. BAYMAN: Thank you.

8 Can you blow that up, please.

9 BY MR. BAYMAN:

10 Q. Okay. It says, "These labeling changes, which have now
11 been finalized, describe that patients with major depressive
12 disorder" --

13 THE COURT: Excuse me. I want to get the date of
14 this as well.

15 MR. BAYMAN: Yes, sir. The date of the letter is --
16 it's May of 2004.

17 Can you pull that up, Mr. Holtzen.

18 THE COURT: Okay. 2004.

19 MR. BAYMAN: Yes, sir.

20 THE COURT: All right.

21 BY MR. BAYMAN:

22 Q. As the language on the screen says that, "These labeling
23 changes, which have now been finalized, describe that patients
24 with major depressive disorder, both adult and pediatric, may
25 experience worsening of their depression and/or the emergence

1 of suicidal ideation and behavior (suicidality) whether or not
2 they are taking antidepressant medications. The changes
3 include a new warning recommending close observation of adult
4 and pediatric patients treated with antidepressant drugs for
5 worsening depression or the emergence of suicidality,
6 particularly at the beginning of treatment or at the time of
7 dose increase or decrease."

8 Do you see that?

9 A. Yes, I do.

10 Q. And did GSK provide the new labeling to the doctors along
11 with the letter?

12 A. Yes. The new label is included with the letter when these
13 are sent out.

14 Q. Let's take a -- let's pull up, if we would, pages -- it's
15 10 and 11 of the labeling. It's 14 and 15 of the exhibit,
16 Doctor.

17 MR. WISNER: Your Honor, we were told that he would
18 offer opinions. He's literally just reading things that we've
19 read three times.

20 MR. BAYMAN: I'm getting ready to ask his opinion.

21 THE COURT: Is this language which was in the 2010?

22 MR. BAYMAN: Some of it was.

23 THE COURT: Some of it was removed.

24 MR. BAYMAN: Some of it was removed, and some of -- a
25 lot of -- most of it was in.

1 THE COURT: I think you should make that clear, what
2 was left in the 2010 and what was not. I think that I, and --
3 I'm sure the jury isn't confused, but I'm a little confused
4 about what's in and what's out, so be careful with that, if
5 you would.

6 MR. BAYMAN: Yes, I will. I'll try to do that.

7 BY MR. BAYMAN:

8 Q. Doctor, you testified earlier today that the original
9 Paxil labeling with respect to suicide was giving disease
10 state information.

11 A. That's correct.

12 Q. In your opinion, is this disease state information? Is
13 this a disease state warning?

14 A. No. This -- this warning is related to disease, but also
15 to medication and treatment. As you see, it now applies to
16 dose changes, increases, decreases, and also in terms of
17 discontinuing medication.

18 Q. Do the -- does the warning reflected here in this
19 labeling -- is it limited to any certain population or age of
20 patients?

21 A. No. It extends to adult and pediatric.

22 Q. And is it limited to adult patients under the age of 25?

23 A. No.

24 Q. And then let's go to -- yeah, "The following symptoms."

25 This language, which we've looked at plenty of times

1 in this case, was this the first -- was this the first time
2 in a clinical -- there was a warning of clinical worsening of
3 suicide risk in the Paxil label that described akathisia?

4 A. Yes.

5 Q. And was this language proposed by the FDA, or was this
6 language GSK's language?

7 A. This is class language from the FDA.

8 Q. Did the FDA's language in 2004 say anything about whether
9 a causal relationship had been established between the
10 emergence of symptoms like akathisia and suicidality?

11 A. Yes. They state that a causal link between these symptoms
12 has not been established.

13 Q. Let's --

14 THE COURT: This is all FDA-mandated language? This
15 is not GSK's own language?

16 THE WITNESS: Right. This is the language that was
17 sent to the 10 manufacturers of antidepressant drugs. All of
18 them had to put this in as class language.

19 BY MR. BAYMAN:

20 Q. Let's jump ahead then, because the jury -- we've been --
21 we've been over these labels. Let's look at -- let's move
22 forward to 2005.

23 A. Is there a tab, or not yet?

24 Q. Not yet.

25 A. Okay.

1 Q. Did FDA require manufacturers to -- in early 2005, to
2 change the antidepressant labels with respect to suicide --
3 warnings of suicidality?

4 A. Yes.

5 Q. Okay. What happened in January of 2005?

6 A. This was -- I believe it was the time of the advisory
7 committee around the pediatric, which led to recommendations
8 around updating labeling; and that came out in 2005.

9 Q. Okay. And was a -- was a Dear Health Care Provider letter
10 sent to doctors in February of 2005?

11 A. Yes.

12 Q. And was that -- was the new labeling included with the
13 letter?

14 A. Yes, the new labeling was included.

15 Q. Tab 23, if you would.

16 A. Yes.

17 MR. BAYMAN: Permission to publish Joint Exhibit 6,
18 your Honor.

19 THE COURT: Yes.

20 BY THE WITNESS:

21 A. So, to clarify your question, the FDA came before
22 February, in that January time period. The advisory committee
23 was the year before.

24 BY MR. BAYMAN:

25 Q. That was my inartfully-worded question. Okay. Let's blow

1 this up, please.

2 This is the February 2005 Dear Health Care Provider
3 letter?

4 A. Yes.

5 Q. And turn to, if you would -- the warning was changed.

6 Let's turn to page 4 and 5. Blow that up, please, page 4.

7 Let's go back, actually. Go back to the black box,
8 please. Okay. Blow that up, please.

9 Is this when the black box label was added to Paxil
10 and other antidepressant medications?

11 A. Yes. This is when the boxed warning was added, that's
12 correct.

13 Q. So, to his Honor's question to you earlier, this would
14 have been new in 2005?

15 A. Yes, that was new in 2005.

16 MR. BAYMAN: Okay. Let's then turn, if you would,
17 then, to, Mr. Holtzen, what you had up before with respect to
18 the labeling that was not in the black box.

19 Can we do the -- get the heading before we pull that
20 up?

21 MR. WISNER: Your Honor, just for the record, can we
22 just talk about what pages we are talking about.

23 MR. BAYMAN: Okay. I want the warning section,
24 clinical worsening and suicide risk.

25 MR. WISNER: So, the black box warning, page 004, is

1 that what we're doing?

2 MR. BAYMAN: No, I'm going outside the black box.

3 MR. WISNER: Okay. So, you were just on page 4,

4 Joint Exhibit 6.

5 BY MR. BAYMAN:

6 Q. Now, is this language different now in 2005 than what was
7 there in 2004?

8 A. Yes. It's been updated based on the new analysis.

9 Q. Okay. And it talks about the pediatric findings, correct?

10 A. That's correct.

11 Q. That's the new analysis?

12 A. Yes, sir.

13 Q. And there was a --

14 MR. BAYMAN: Mr. Holtzen, pull up the phrase you had
15 highlighted earlier, "It is unknown."

16 BY MR. BAYMAN:

17 Q. This statement, "It is unknown whether the suicidality
18 risk extends to adults," that was in there before 2004?

19 A. No, I believe that was new.

20 Q. So, that's new?

21 A. Yes.

22 Q. Okay. And in your opinion, does this labeling address
23 whether there was a risk of suicidality for adults in January
24 of 2005?

25 A. It addresses it in the sense that it states it's unknown

1 whether that risk extends to adults.

2 Q. In your opinion, does it say it doesn't apply to adults?

3 A. No, it does not say that.

4 Q. Let's look -- is there language in here about suicidality
5 at the start of paroxetine therapy.

6 MR. BAYMAN: The second full paragraph, Mr. Holtzen,
7 starts with, "Adults with MDD"?

8 BY THE WITNESS:

9 A. Yes. It's a --

10 THE COURT: I'm going to stop you there. I don't
11 know where you are now.

12 MR. WISNER: So, your Honor, here's the problem.
13 The exhibit that's up on the screen is actually not Joint
14 Exhibit 6, although I think it has the same text in it, so
15 I don't think it's materially different. But that's the
16 problem. So, it looks a little different in our binders than
17 it does on the screen.

18 MR. BAYMAN: The language is the same, your Honor.
19 I'm sorry for that. I was trying to get to your point about
20 what came in and what went out.

21 Do we have --

22 MR. WISNER: So, your Honor, this is on page -- Joint
23 Exhibit 5 --

24 THE COURT: Ignore me, Mr. Bayman. Ignore me.

25 MR. BAYMAN: All right. Well, you asked --

1 THE COURT: Just go on with your presentation.

2 MR. BAYMAN: You asked what came in and what came
3 out.

4 THE COURT: I made a mistake. I shouldn't have asked
5 a question.

6 MR. BAYMAN: Okay. Just want to be responsive, your
7 Honor.

8 BY MR. BAYMAN:

9 Q. Is there language about suicidality at the start of
10 paroxetine therapy in this label?

11 A. Yes, and this section speaks to it. And it goes to what
12 we talked about before around looking at the initiation of
13 drug therapy, at times of dose changes as well.

14 Q. Is this disease management language?

15 A. No, because as I stated before, it's related to changes
16 in treatment of medications.

17 Q. Let's look down at the third full paragraph on the same
18 page, the label from FDA in 2005 says, "Although a causal
19 link between the emergence of such symptoms and either the
20 worsening of depression and/or the emergence of suicidal
21 impulses has not been established. There is concern that
22 such symptoms may represent precursors to emergent
23 suicidality"?

24 A. Yes.

25 Q. In your opinion, what is that -- as a physician, what is

1 that alerting you to?

2 A. That's alerting you to the heightened awareness to look
3 at the symptoms they have listed there, given the proposal
4 that they may be related to emerging suicidality. However,
5 there's been no causal link, so it's really just heightened
6 awareness.

7 Q. And this is new language, correct, that such symptoms may
8 represent precursors?

9 A. That's correct.

10 Q. And is there new language in early 2005 about what to tell
11 families and caregivers?

12 A. Yes, there is.

13 MR. BAYMAN: Let's go to that, Mr. Holtzen.

14 BY MR. BAYMAN:

15 Q. And this is the language alerting families and caregivers
16 for both MDD and other indications, psychiatric and
17 non-psychiatric, to be alerted to the need to monitor the
18 patients for the emergence of agitation, irritability, unusual
19 changes in behavior, and the other symptoms described above.
20 Those are the symptoms that we saw earlier that included
21 akathisia?

22 A. That's correct.

23 Q. And that last sentence, "Families and caregivers of adults
24 being treated for depression should be similarly advised"?

25 A. Yes, exactly.

1 Q. Does the language in this part of the label apply only to
2 pediatric patients?

3 A. No, it does not.

4 Q. Is it limited to any particular age bracket of adults?

5 A. No, it is not.

6 Q. Let's turn to page 6 of the -- this exhibit. You see the
7 precautions section?

8 A. Yes.

9 Q. Pull up, if you would, akathisia.

10 Is this language, this precaution with respect to
11 akathisia, is this new in the 2005 label?

12 A. Yes, that was added to the 2005 label.

13 Q. And it says, "The use of paroxetine or other SSRIs has
14 been associated with the development of akathisia, which is
15 characterized by an inner sense of restlessness and
16 psychomotor agitation such as an inability to sit or stand
17 still, usually associated with subjective distress. This is
18 most likely to occur within the first few weeks of treatment."

19 A. Yes.

20 Q. Do you see that?

21 A. Yes, I do.

22 Q. Are you familiar with the medical term "akathisia"?

23 A. Yes.

24 Q. Tell the jury what that means.

25 A. Akathisia is -- as it describes here, is characterized by

1 psychomotor agitation. So, what does that mean, psychomotor?
2 Psycho is some of the internal sense of feeling agitated, but
3 it's accompanied by kind of a physical manifestation. This
4 can include inability to sit still, moving up and down, things
5 of this nature.

6 It happens, in my experience, most frequently with
7 antipsychotic medicines. So, in schizophrenia trials, I saw
8 this a lot.

9 Q. Have you treated patients with akathisia?

10 A. Oh, yes.

11 Q. Do you know how to recognize it?

12 A. Yes.

13 Q. Is that something you were taught in medical school?

14 A. Primarily in our psychiatric residency is where we would
15 deal with akathisia, since it's related to mainly
16 antipsychotic medications.

17 Q. Has GSK ever studied the question of whether akathisia in
18 paroxetine patients is associated with an increased risk of
19 suicidality?

20 A. Yes.

21 Q. And what did you conclude?

22 A. In that analysis, akathisia was not associated with an
23 increased risk of suicide or suicide-related adverse events.

24 Q. Did GSK provide these new labels, the revised Paxil
25 labeling, to doctors along with the letter in 2005?

1 A. Yes, we provided it.

2 Q. Let's jump forward to 2006. Now, at this point, you were
3 with GSK, correct?

4 A. I am with GSK, that's right.

5 Q. And did there come a time when FDA undertook a
6 comprehensive review of the clinical trial data for adults
7 and suicidality for antidepressants, including Paxil or
8 paroxetine?

9 A. Yes.

10 Q. And did the FDA explain to GSK and the other manufacturers
11 why they undertook this review of the adult suicidality data?

12 A. Yes, they did.

13 Q. And what did they tell you?

14 A. It's similar to what you saw in that label. It was
15 unknown whether the risk extended to adults. So, FDA wanted
16 to do a similar review that was done for pediatrics of the
17 adult data to assess whether or not an increased risk was
18 associated with treatment in the non-less-than-18-year-old
19 age group, originally just looking at major depression, but
20 then they extended it to other diseases.

21 Q. Did FDA identify the types of clinical trials for Paxil
22 from which it wanted data on suicidality?

23 A. Yes. They wanted -- I spoke a bit to this earlier. They
24 wanted placebo-controlled, so that side-by-side comparison
25 phase of the study. They wanted them to be acute, so those

1 early treatment studies, and of reasonably short duration,
2 less than 17 weeks, and of sufficient size, 30, such that they
3 could bring meaningful data to the analysis.

4 And in their request to us, FDA -- obviously, in our
5 New Drug Application, they know all of our studies. They
6 picked out studies that they believed would meet this
7 criteria, asked us to review and provide comment.

8 Q. Did they actually give you a list by study number?

9 A. Yes.

10 Q. Now, how would they know?

11 A. Well, we submit all of our studies to the New Drug
12 Application, so as our -- remember that slide. As each new
13 indication gets approved, FDA gets all of the studies
14 associated with that, all of the study reports, protocols.
15 So, they're able to understand what might fit their criteria.

16 Q. So, if I understand it, the original NDA was for major
17 depressive disorders. When you later then submitted for, say,
18 generalized anxiety disorders, you submitted the clinical
19 trial data where patients were being -- who had generalized
20 anxiety disorders were given Paxil or placebo or other
21 comparators, for example?

22 A. Yes. Every new indication, it all goes into the drug
23 application as Supplemental New Drug Application. So, they
24 have awareness of all the studies.

25 Q. Now, you said they gave you the list. Did you have an

1 opportunity to comment on that list?

2 A. Yes, we did.

3 Q. And did that -- did you have the opportunity to include
4 other trials that may not have been included?

5 A. Right. We were able to highlight other placebo-controlled
6 trials that seemed relevant to their request, as well as
7 identify trials that were not appropriate, for example, they
8 were too long, things of that nature.

9 Q. Did FDA want data from open label or active control
10 trials?

11 A. No.

12 Q. Did FDA explain why it didn't want events from open label
13 trials, for example?

14 A. Yes. They felt that not having that ability to have the
15 control group --

16 MR. WISNER: Objection. It's either hearsay or
17 speculation.

18 THE COURT: Yes, sustained as to what they felt.

19 MR. BAYMAN: No, I said did they tell them.

20 BY THE WITNESS:

21 A. They wrote a letter --

22 THE COURT: You're going to have to rephrase it, sir.
23 It's not what they felt.

24 THE WITNESS: I can rephrase that, sir. I misspoke
25 there.

1 MR. BAYMAN: Let's put up Joint Appendix 15, pages 50
2 and 51. It's in evidence. Pull that up.

3 BY MR. BAYMAN:

4 Q. This is in evidence. It's been published before.

5 A. Right. And this is where they say, "Please do not submit
6 data from active-control-only studies, uncontrolled extensions
7 of placebo-controlled studies, or combination drug studies."

8 Q. What was your understanding, you and your colleagues at
9 GSK, as to why data from those other studies was excluded
10 by FDA?

11 MR. WISNER: Objection. Speculation. He can't opine
12 as to why the FDA did something.

13 THE COURT: No, but he can testify as to his
14 understanding.

15 MR. WISNER: But the understanding as to why, it's
16 the same question. It's just couched --

17 THE COURT: All right. The why goes out, but give us
18 your understanding.

19 BY MR. BAYMAN:

20 Q. What's your understanding?

21 A. The understanding is because they were uncontrolled
22 studies, there were confounding variables, as we discussed
23 earlier, that make it difficult to understand whether or not a
24 complex behavior like a suicide or suicide attempts would be
25 related to drug treatment. So, they wanted that control

1 group, that placebo group in order to answer that question.

2 Q. What -- explain what you mean by --

3 THE COURT: I think we've been over this. We've
4 heard about what they want, the type of studies. It's been
5 very thoroughly examined.

6 MR. BAYMAN: I just want to ask him about
7 confounding.

8 THE COURT: What?

9 MR. BAYMAN: Confounding. He used the word
10 "confounding." I want him to explain to the jury what
11 confounding means.

12 THE COURT: I don't think we need to know what
13 confounding means, do we?

14 MR. BAYMAN: Well, yeah. It's why they were
15 excluded, because they were confounding -- they could be
16 confounding factors. I just want him to explain to the jury
17 what that means.

18 THE COURT: Oh, you mean in technical terms?

19 MR. BAYMAN: Yes, sir. Yes, sir.

20 THE COURT: Okay.

21 BY THE WITNESS:

22 A. There could be instances of additional medications being
23 used so that you couldn't ascertain what may be behind a
24 certain adverse event. The duration of time, as we talked
25 about before, which with an adverse event like suicidality,

1 without any control group, it's difficult to understand
2 whether that's part of the disease itself or whether it's
3 related to treatment. Things of that nature would have been
4 difficult to understand in the context of an analysis.

5 So, as we have been talking about, FDA in their
6 request, wanted the placebo-controlled portions so you can see
7 what happens over time in the absence of any active medicine,
8 what happens over time with that active medicine, at the same
9 time, with the same kind of population.

10 BY MR. BAYMAN:

11 Q. Have you in your entire career ever seen FDA use the term
12 placebo-controlled portion of a clinical trial to mean
13 anything other than portions of placebo -- well, of clinical
14 trials that have concurrent placebo controls?

15 MR. WISNER: Objection. Cumulative.

16 THE COURT: You may answer.

17 BY THE WITNESS:

18 A. No. When FDA makes --

19 THE COURT: You've answered it, sir.

20 THE WITNESS: Okay.

21 BY MR. BAYMAN:

22 Q. I want you -- you're familiar with the opinions of the
23 plaintiff's experts?

24 A. Yes.

25 Q. Dr. Ross offered the opinion that a suicide study 083 was

1 improperly excluded from the 2006 analysis. Are you familiar
2 with study 083?

3 A. Yes.

4 Q. Can you describe its design?

5 A. This was similar to what we talked about before, that kind
6 of randomized withdrawal looking at relapse, where you have a
7 portion of the study where every patient is on Paxil, and that
8 those patients that respond would then go to either stay on
9 that drug or be withdrawn. So, there's an uncontrolled part
10 and then that relapse part.

11 Q. Can we pull that relapse slide back up, 7036-A that we
12 showed -- got permission to show earlier.

13 This is the graphic you're talking about?

14 A. Yes, that's the graphic I was talking about.

15 Q. Now, based upon your review of study 083, are you familiar
16 with the circumstances of the suicide that occurred during
17 that study?

18 A. Yes. It had occurred on the left side where there is
19 paroxetine alone without a comparator group.

20 Q. Should this suicide have been included in your submission
21 to the FDA in 2006?

22 A. No. It didn't meet the criteria for the analysis.

23 Q. Should it have been included in your own analysis in 2006?

24 A. No, for the same reason. The analysis was based on
25 placebo-controlled portions of studies.

1 Q. Does this mean that the company ignored this suicide?

2 A. No.

3 Q. What did the company do when it learned of the suicide in
4 study 083?

5 A. Suicides, suicide attempts, any adverse events that occur
6 in our studies all are reported into our central safety
7 database. So, every event is captured from every clinical
8 trial that we do.

9 Q. Okay. I want to move on, move you to Tab 25.

10 MR. BAYMAN: Defense Exhibit 431, your Honor.

11 THE COURT: Okay.

12 BY MR. BAYMAN:

13 Q. What is that document?

14 A. This is another FDA talk paper like we described before,
15 where FDA is providing information on an issue that they may
16 be examining. And this one's on reviewing antidepressant use
17 in adults.

18 Q. And we talked about FDA talk papers. That's something
19 that you and your colleagues rely on for the FDA's official
20 position on whatever the issue may be?

21 A. Yes.

22 Q. And that's -- the FDA posts that, posts those talk papers
23 on its website?

24 A. That's correct.

25 Q. And it reflects the agency's official views or results of

1 official investigations?

2 A. Yes, it does.

3 Q. And do you and your colleagues regularly monitor these FDA
4 talk papers?

5 A. Yes, we do. We monitor the website.

6 Q. And based on the work you've done as part of your
7 responsibilities, did you and your colleagues at GSK rely on
8 this talk paper as part of your ongoing assessment of the
9 Paxil/paroxetine label as it related to suicidal thinking and
10 behavior in adults?

11 A. Yes.

12 MR. BAYMAN: Your Honor, I'd move to publish.

13 MR. WISNER: Objection, your Honor, both on hearsay
14 grounds and relevance. On the relevance issue, I do not
15 believe Illinois law imposes a duty on the FDA to warn. I
16 believe that duty rests with GSK. So, any statements made by
17 the FDA that had nothing to do with GSK cannot possibly be
18 relevant in this case.

19 THE COURT: What is it that you want to call
20 attention to in the document?

21 MR. BAYMAN: What the FDA --

22 THE COURT: What paragraph, so I don't --

23 MR. BAYMAN: Second paragraph, your Honor.

24 THE COURT: You're interested in the second
25 paragraph?

1 MR. BAYMAN: Yes, sir.

2 THE COURT: Just give me a minute.

3 MR. WISNER: If it's just the second paragraph, I
4 have no objection.

5 MR. BAYMAN: Actually, second and third paragraph,
6 your Honor.

7 MR. WISNER: Oh.

8 THE COURT: The first bullet? You have -- okay.
9 There's no objection to the second paragraph.

10 MR. WISNER: Any other parts, I do object to, your
11 Honor.

12 THE COURT: Oh, you object to the other?

13 MR. WISNER: Well, he just told us it's the third
14 paragraph.

15 MR. BAYMAN: Well, the second and the third were the
16 two I was going to ask him about. That's all I was going to
17 do.

18 THE COURT: Is the third paragraph the one with the
19 bullet?

20 MR. BAYMAN: It starts, "Adults being treated with
21 antidepressant" -- it's a bullet. It's also --

22 THE COURT: Okay. Let me read it.

23 Okay. You may proceed.

24 MR. BAYMAN: May I publish? Thank you, your Honor.
25 Do you want to put that up.

1 BY MR. BAYMAN:

2 Q. This -- is this information that -- this talk paper is for
3 prescribers also?

4 A. It's public, so it's on the website, so anyone can see
5 that; but, yes, for prescribers as well.

6 Q. And what's your -- does this paragraph describe the
7 analysis that the agency was undertaking with respect to adult
8 suicidality and antidepressants?

9 THE COURT: It doesn't say anything in here about
10 adults, does it? Oh, the second and third line? Okay.

11 MR. BAYMAN: Yeah.

12 BY MR. BAYMAN:

13 Q. It's saying that --

14 THE COURT: "Begin the process." I Gotcha.

15 MR. BAYMAN: Okay.

16 THE COURT: Thank you.

17 BY MR. BAYMAN:

18 Q. Take a look at the next paragraph. Did the FDA say
19 anything in this talk paper to healthcare providers about the
20 care of adult patients currently on antidepressants?

21 MR. WISNER: Objection.

22 THE COURT: That's a negative question. Sustained.

23 MR. BAYMAN: Okay. Let me rephrase.

24 BY MR. BAYMAN:

25 Q. What does this say -- what did the FDA say in this

1 paragraph with respect to the treatment of adult patients who
2 are currently on antidepressants?

3 A. The FDA reiterates points that were existing in the label
4 about adults being treated with these medications, especially
5 for depression, watched closely for worsening or increased
6 thinking or behavior. Close observation of adults may be
7 especially important when antidepressant medications are
8 started for the first time or when the doses are changed. And
9 then adults whose symptoms worsen while being treated with
10 antidepressants, and that can include suicidal thinking or
11 behavior, should be evaluated by their healthcare
12 professional.

13 And they add that these warnings were already within
14 the label. They were just reiterating them in this talk
15 paper.

16 MR. WISNER: Your Honor, I again renew my objection
17 this time as well as there's been no foundation that this ever
18 got to Dr. Sachman; and, therefore, it's just a red herring.

19 THE COURT: Well, it may stand.

20 MR. BAYMAN: Thank you.

21 BY MR. BAYMAN:

22 Q. Did FDA in this talk paper limit adult patients to any
23 particular age group?

24 A. No.

25 Q. At this point in time, July of 2005, did the FDA request

1 any additional labeling changes for Paxil concerning the risk
2 of suicidal thinking or behavior for adult patients?

3 A. No.

4 THE COURT: Are you referring to this label -- or
5 this message? Are you referring to this talk --

6 MR. BAYMAN: Yes, sir -- no, I'm sorry. My question
7 was broader than that at this point in time.

8 THE COURT: That's what I wondered.

9 MR. BAYMAN: Yes, sir.

10 BY MR. BAYMAN:

11 Q. Okay. Let's move ahead in our chronology. After FDA
12 announced that it was going to do an analysis of adult
13 suicidality data from the clinical trial -- placebo-controlled
14 clinical trials of the various manufacturers, did GSK decide
15 to do any type of analysis?

16 A. Yes, we did.

17 Q. Why did you do that if the FDA was going to go ahead and
18 do it?

19 A. Well, the drug manufacturers were asked to collect the
20 data and to submit to the FDA. So, GSK would have had the
21 paroxetine data going to the -- going to FDA.

22 So, as we collected the data and as there were new
23 methodologies that were being employed in the FDA analysis
24 based on what it had learned from their earlier analysis in
25 pediatrics, we had the data; and as part of our ongoing

1 assessment of the safety of the medicine -- as you've seen,
2 we've looked many times at this before -- we used this data to
3 look again at whether there was any increase association of
4 paroxetine treatment with suicidal ideation or behavior
5 relative to placebo.

6 Q. There's been some testimony in the case about a process by
7 which adverse events were sent to experts at Columbia
8 University for analysis. Could you tell the jury a little bit
9 about that?

10 A. Yes. So, what were called possibly suicide -- suicidally
11 related adverse events were collected using a process looking
12 at certain words in text strings to go across all the clinical
13 trials. From those, it was -- a case narrative was developed.
14 And we actually had a third-party vendor actually write the
15 narratives for these suicidality-related adverse events.

16 Those narratives were then provided to external
17 experts to what was called adjudicate or judge whether or not
18 they were an aspect of suicidal behavior. And I think there
19 was a list of nine things that they could have characterized,
20 including suicide attempts, preparation for suicide, suicides
21 themselves, ideation, not related, or not enough information,
22 things like that.

23 Q. Now, you say a narrative. What do you mean by a
24 narrative?

25 A. So, it's a description of what happened to that patient in

1 the study and what happened at the time of that adverse event.
2 So, it's kind of a description. You know, what treatment were
3 they taking? How long had they been on it? Age? Sex? What
4 adverse events had they experienced in the study? What was
5 the adverse event they experienced here? How -- what time did
6 that occur after treatment? What was done? Did the patient
7 stay in study or leave? Those sorts of things.

8 Q. Now, did I understand you to say that an outside firm
9 prepared the narratives, not GSK?

10 A. That's correct.

11 Q. Did GSK control how these narratives were written?

12 A. No.

13 Q. Did GSK try to influence how the narratives were prepared?

14 A. No.

15 Q. Did GSK try to influence how the experts at Columbia
16 reviewed these?

17 A. No.

18 Q. And what were the -- the people that were preparing the
19 narratives, what were they reviewing in order to do the
20 narrative?

21 A. Well, they would review what we call the case report form
22 from the clinical study.

23 So, each patient has information associated with
24 their participation in the study that includes the rating
25 scales we talked about, so efficacy, but also includes adverse

1 events, dose of medicine, things of that nature.

2 If there was a serious adverse event that was
3 reported, it could also include hospital records and things of
4 that nature that occurred around that time.

5 Q. Now, why would someone, to use your word, have to
6 adjudicate whether something's a suicide attempt or not?

7 Wouldn't you know?

8 A. From text strings and from sometimes what was provided by
9 investigators, there wasn't a consistency among how events may
10 have been reported. So, for example, they range from a
11 patient slapping themselves could have been a suicide attempt,
12 or adjudged as one, all the way to a severe attempt, such as
13 an overdose or things of that nature.

14 So, it was a way to have kind of a common set of eyes
15 with a common set of standards apply whether or not a suicide
16 attempt occurred.

17 Because sometimes self-harm behavior, hurting oneself
18 can occur without the intent of that patient or subject to
19 want to die. And some of those narratives were able to
20 provide that information for the adjudication as well.

21 Q. But it was the experts at -- was it the experts at
22 Columbia who were reviewing those narratives and making the
23 determination as to whether this was a suicide attempt or not,
24 or was it GSK?

25 A. It was the experts at Columbia. They did that

1 adjudication independent from us.

2 Q. And the narratives were written, you said, from the case
3 report forms. Is that called raw data?

4 A. Yeah, that's -- we call it the source material, but, yeah,
5 it's raw data.

6 Q. All right. Turn, if you would, now to Tab 29.

7 MR. BAYMAN: Your Honor, this is Defense Exhibit 101.
8 It's admitted into evidence.

9 Pull that up, please, Mr. Holtzen.

10 BY THE WITNESS:

11 A. Which tab was that?

12 BY MR. BAYMAN:

13 Q. 29.

14 A. Okay.

15 Q. Are you familiar with this document?

16 A. Yes, I am.

17 Q. What is it?

18 A. This is the cover letter for a briefing document that we
19 submitted to FDA that provided the results of the first part
20 of our own analysis of suicidal ideation and behavior.

21 And that first part of the analysis was the major
22 depression studies. And the reason that was first is FDA
23 initially asked for those studies and then added non-major
24 depression. So, we had kind of two sets of data going
25 through, and this was the first available.

1 Q. Were you personally involved in this analysis that was
2 submitted to the FDA?

3 A. Yes, I was.

4 Q. What did you do?

5 A. Again, I was the project physician, so reviewed these from
6 a medical, clinical perspective, reviewed the results.

7 Q. Let's look at the first paragraph, second sentence.

8 "Reference is also made." What does that refer to, that
9 sentence?

10 A. "Reference is also made to the agency's letter dated
11 December 24th, 2004." This is going to the request that FDA
12 asked us to provide this data for the adult studies to examine
13 this question. So, we're just referring back to that original
14 letter asking for the major depressive disorder studies.

15 Q. And the placebo -- from the placebo-controlled?

16 A. Absolutely, from the acute, so that early in treatment
17 part, double-blind, neither the patient nor the investigator
18 knows the treatment, randomized, so that patients by chance
19 get assigned to one of the treatments, and it's placebo or
20 paroxetine.

21 Q. Go down to the second paragraph. What are you informing
22 FDA?

23 A. We're letting FDA know that we finished the first part of
24 our analysis, which was the major depression subset.

25 Q. Did FDA require you to do this analysis?

1 A. No.

2 Q. Let's look at, if we can, Tab 30, which is -- I think
3 it's been admitted as Plaintiff's Exhibit 9. It's also
4 Defense 103.

5 Are you familiar with this document?

6 A. I may be on the wrong tab. Which tab?

7 Q. Tab 30.

8 A. Ah, I had to turn the page. Yes, I'm familiar with this
9 document.

10 Q. What's this?

11 A. This is the cover letter for the -- or actually, this is
12 the cover letter for the briefing document for the entire
13 subset -- entire data. So, the major depression as well as
14 the non-major depression.

15 Q. Were you involved in producing this report?

16 A. Yes.

17 Q. And were you involved in analyzing the data?

18 A. Yes, I was.

19 Q. How did the number of patients in this analysis in April
20 compare to the number of patients in the one submitted in
21 March?

22 A. I believe this added approximately two-thirds more
23 subjects, if I recall correctly, but much more subjects
24 were -- a total of about 15,000 subjects in this analysis.

25 Q. And was that because it included these other anxiety

1 disorders that we've talked about, like generalized anxiety
2 disorder and OCD and things like --

3 A. Yes, it included all of those other indications that had
4 been approved for paroxetine.

5 Q. Turn, if you would, to page 6, the clinical summary.

6 A. Okay.

7 Q. From your perspective as a clinician, what are primary
8 and secondary end points in the context of a meta-analysis
9 like this?

10 A. According to the context of any study, the primary end
11 point is what's defined as the key question to be answered.
12 It's predefined before you do the analysis plan. So, it's the
13 key bit of information in a study.

14 Q. Let's look at the first bullet. What was the primary end
15 point or objective of GSK's 2006 analysis?

16 A. The primary end point was of definitive suicidal behavior
17 or ideation, so suicidality across the range.

18 Q. And what does that include, that spectrum?

19 A. That includes anything from having thoughts of wanting to
20 kill oneself, to having made preparations to attempt to kill
21 oneself, to a suicide attempt, to a completed suicide.

22 Q. Why did GSK establish suicidal behavior and ideation
23 combined as the primary end point?

24 A. There were a couple of reasons. One is that in FDA's
25 prior analysis of the pediatric data, this was the end point

1 that was able to distinguish a difference -- or evidence of an
2 association between treatment versus placebo, so it appeared
3 more sensitive in the pediatric studies. And also, it was our
4 understanding that FDA would use this as well.

5 And then finally, ideation and behavior are all
6 important components along the spectrum of suicidality.
7 Patients with ideation or thoughts of suicide are at increased
8 risk of attempts. Patients who have had suicide attempts are
9 at an increased risk of suicide, and so on. So, it's a
10 spectrum effect.

11 Q. Did GSK try to hide the risk of Paxil-induced suicide by
12 focusing on ideation?

13 MR. WISNER: Objection. This witness does not speak
14 for GSK, unless that's changed at some point in this.

15 MR. BAYMAN: He doesn't speak for GSK?

16 MR. WISNER: Oh, I'm sorry. Is he testifying as a
17 corporate representative? My understanding, he was just
18 testifying as a fact witness.

19 THE COURT: He may testify.

20 MR. BAYMAN: Thank you.

21 MR. WISNER: Sorry, your Honor. I just want to
22 clarify for the record. If this is a Rule 30(b)(6) witness,
23 I'd like to know. That was not disclosed to us. So far, I
24 understand he was just a fact witness.

25 MR. BAYMAN: He's a designated expert. He's an

1 employee of GSK. I mean, I think he can --

2 MR. WISNER: That's fine. Just for the record, he
3 speaks for the company.

4 THE COURT: Did he give a report?

5 MR. BAYMAN: He gave the disclosure that I --

6 THE COURT: Disclosure, but not a report?

7 MR. BAYMAN: Correct, because he doesn't regularly
8 testify, your Honor. That's why he didn't do an expert --
9 he's not a retained expert, one who regularly testifies.

10 THE COURT: He's testifying as a company expert,
11 company official?

12 MR. BAYMAN: Yes.

13 MR. WISNER: There's no objection to him testifying
14 as a company expert, but that's significantly different -- is
15 he speaking for the board of directors for GSK, or is he
16 speaking for himself? I don't know.

17 THE COURT: I think it's clear he's speaking for GSK,
18 isn't it?

19 MR. WISNER: Good to know. Then no objection.

20 MR. BAYMAN: He's giving his opinions as an expert
21 who's employed by GSK, and he was involved in the analysis of
22 the data.

23 THE COURT: Right. He may testify.

24 BY MR. BAYMAN:

25 Q. Were you involved in helping establish suicidal ideation

1 and behavior as the combined primary end point?

2 A. The end point had been defined prior to my joining the
3 company, so I had not been involved in that.

4 Q. You were not involved in that, but were you involved in
5 discussions about the results of that primary --

6 A. Yes, absolutely.

7 Q. Based on your experience at the company and your
8 involvement in these analyses, did you and your colleagues try
9 to hide anything by including suicidal ideation along with
10 suicidal behavior?

11 A. No. And as I said, based on --

12 THE COURT: Okay. You've answered the question.

13 BY THE WITNESS:

14 A. No, we did not.

15 BY MR. BAYMAN:

16 Q. For adults with major depressive disorder, MDD, what was
17 the result of this analysis for the primary end point,
18 definitive suicidal behavior or ideation?

19 A. So, you see on the primary end point, there was no
20 statistically significant difference between adults with major
21 depressive disorder treated with paroxetine compared to
22 placebo. So, here you see 31 out of 3,455, 0.9 percent,
23 versus 11 out of 1978, 0.56 percent.

24 Q. Dr. Kraus, did this analysis show reasonable evidence of
25 an association between paroxetine and definitive suicidal

1 behavior or ideation for adult patients with major depressive
2 disorder?

3 A. No, it did not.

4 Q. And was that true for adult patients of all ages?

5 A. Yes.

6 Q. Now, turn if you would, please, to page 8, Section 3.2.

7 Got it?

8 A. Yes.

9 Q. Did GSK also examine this primary end point, which is
10 definitive suicidal behavior or ideation in patients with
11 psychiatric disorders other than major depressive disorder?

12 A. Yes, we did.

13 Q. What were the results of this analysis on this primary
14 end point?

15 A. So, when we looked at all indications pooled, so all of
16 those patients, approximately 15,000 if you add the Paxil
17 and placebo, we found no significant difference between
18 paroxetine treatment versus placebo in terms of risk. So,
19 0.93 percent for paroxetine versus 1.09 percent for placebo.

20 When just looking at depressive disorders, which
21 includes major depression, bipolar depression, things of that
22 nature, again, no difference between paroxetine and placebo,
23 1.77 for paroxetine or Paxil versus 2.08 percent for placebo.

24 And then finally, when we look at the all
25 non-depression, so this is primarily those anxiety disorders

1 we talked about, generalized anxiety, PTSD, things of that
2 nature, there was also no difference between Paxil, which was
3 0.32 percent, versus placebo, which was 0.49 percent.

4 Q. Dr. Kraus, did this analysis show reasonable evidence of
5 an association between Paxil and definitive suicidal behavior
6 or ideation for patients in these other patient populations?

7 A. No.

8 Q. And is that true for adult patients of all ages?

9 A. That's correct.

10 Q. Now, did GSK actually examine the data on suicidal
11 behavior and ideation by age range?

12 A. Yes, we did.

13 Q. Let's pull up table 2.08.

14 What is this table?

15 A. Excuse me. This is a table from the listings of the
16 analysis. This is looking at the number and percent of
17 subjects with the primary end point, definitive suicidal
18 behavior and ideation, and breaking it down by a couple of
19 characteristics. One was baseline suicidal ideation, whether
20 it was present or absent. One by age group, so you can see
21 the different age groups there, less than 18, 18 to 24, 25 to
22 64, greater than 65; and then also by gender, male and female.

23 Q. What were the results of this analysis for adults aged
24 25 to 64?

25 A. There was no difference in the rate of occurrence of these

1 events between paroxetine and placebo. You see 0.78 for
2 paroxetine versus 1.14 for placebo.

3 Q. Is that even nominally protective?

4 A. The odds ratio is less than 1, so that can be said.

5 Q. But it was not statistically significant?

6 A. No.

7 Q. What does protective mean?

8 A. Protective means in this instance, a positive effect on
9 reducing suicidal behavior or ideation.

10 Q. So, not increasing the risk, but reducing the risk?

11 A. That's right.

12 THE COURT: Are you saying it reduces the risk?

13 THE WITNESS: What I'm saying is that odds ratio less
14 than 1 of 0.7 is in a direction of reducing the risk, rather
15 than increasing it.

16 THE COURT: But are you saying that this shows that?

17 THE WITNESS: I'm not saying that.

18 THE COURT: Are you claiming that this shows that?

19 THE WITNESS: I'm saying there's no difference
20 between treatments.

21 THE COURT: No difference. But you're not claiming
22 that it's effective?

23 THE WITNESS: I'm not claiming it's protective.

24 THE COURT: Protective. You're not claiming it's
25 protective?

1 THE WITNESS: Right. I was answering the question as
2 to whether .7 points to a protective --

3 THE COURT: Okay.

4 THE WITNESS: But I wouldn't make that statement.

5 BY MR. BAYMAN:

6 Q. Does it trend in a protective direction?

7 A. Yes.

8 Q. But it's not statistically significant?

9 A. That's correct.

10 Q. We'll come back to this analysis in a few minutes and
11 other parts of it, but how many different analyses --

12 THE COURT: And we'll do that on another day.

13 MR. BAYMAN: Thank you.

14 THE COURT: I'm sure you're right, though.

15 MR. BAYMAN: Thank you, your Honor.

16 THE COURT: All right. Ladies and gentlemen,
17 remember our ruling and your caution about not discussing the
18 case. I know it's tempting, but please don't do it, for
19 yourself, partly for yourself, because I want you all to be
20 in a good position to take the case when we give it to you.
21 And get some exercise and sleep, too, will you?

22 (Jury exits courtroom.)

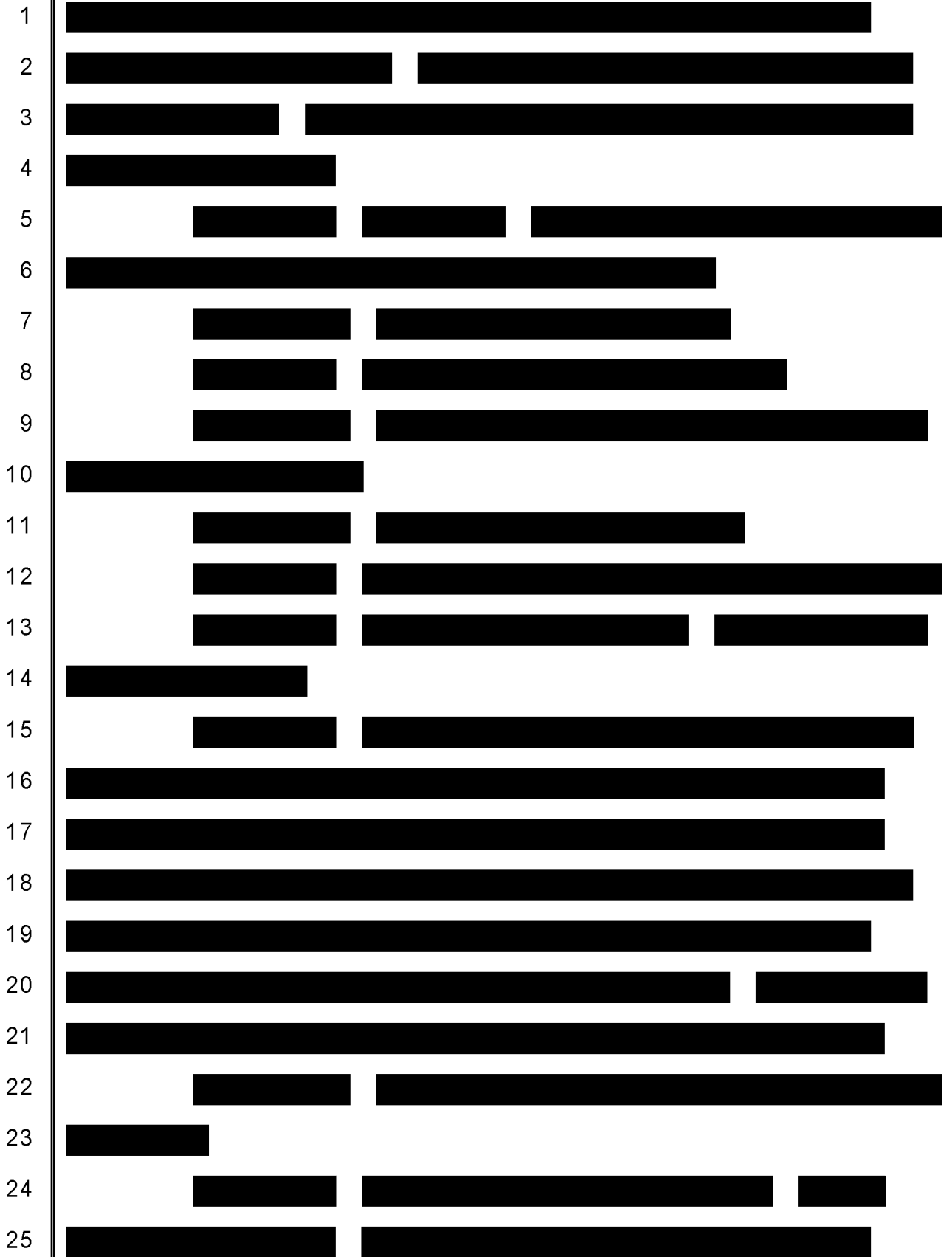
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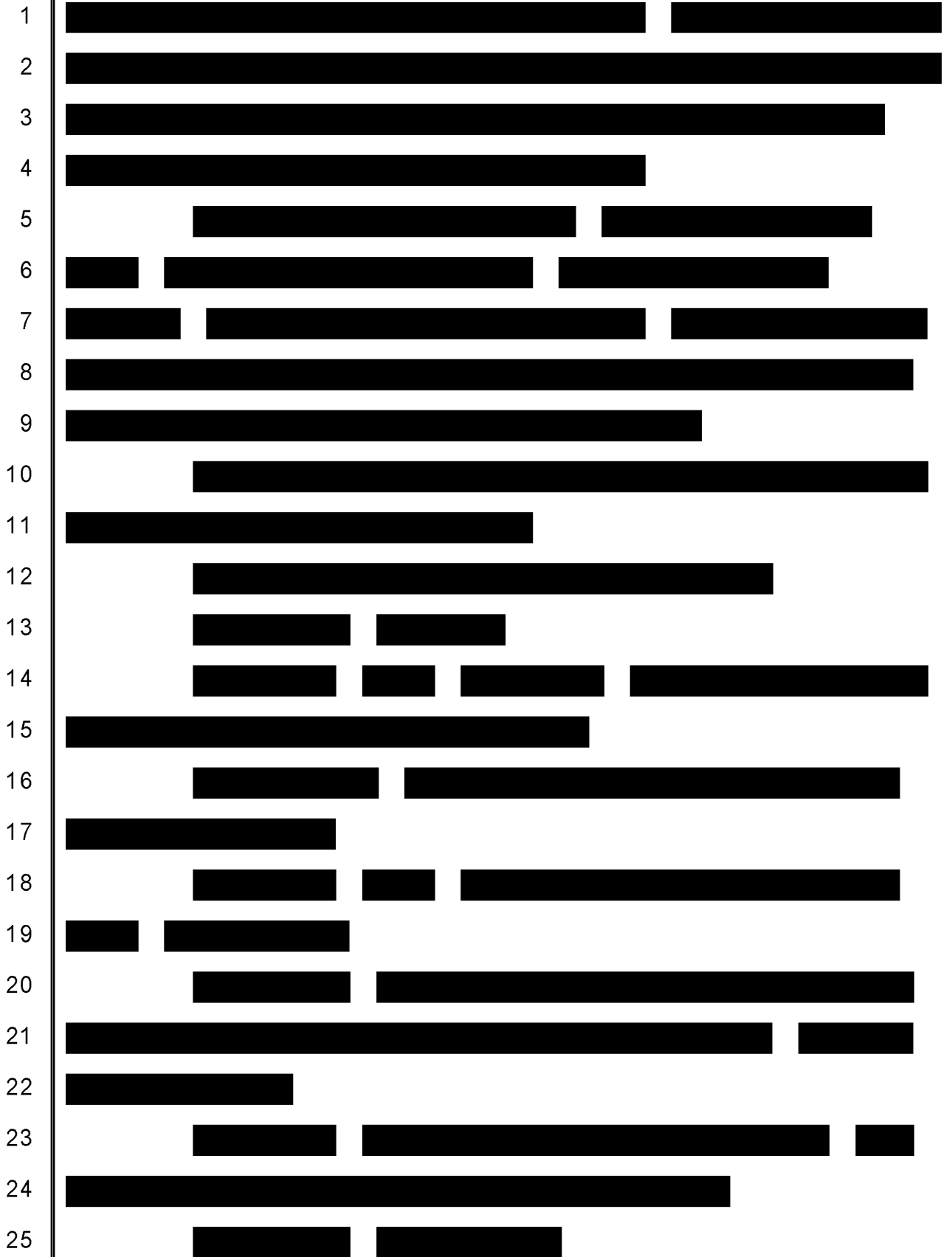
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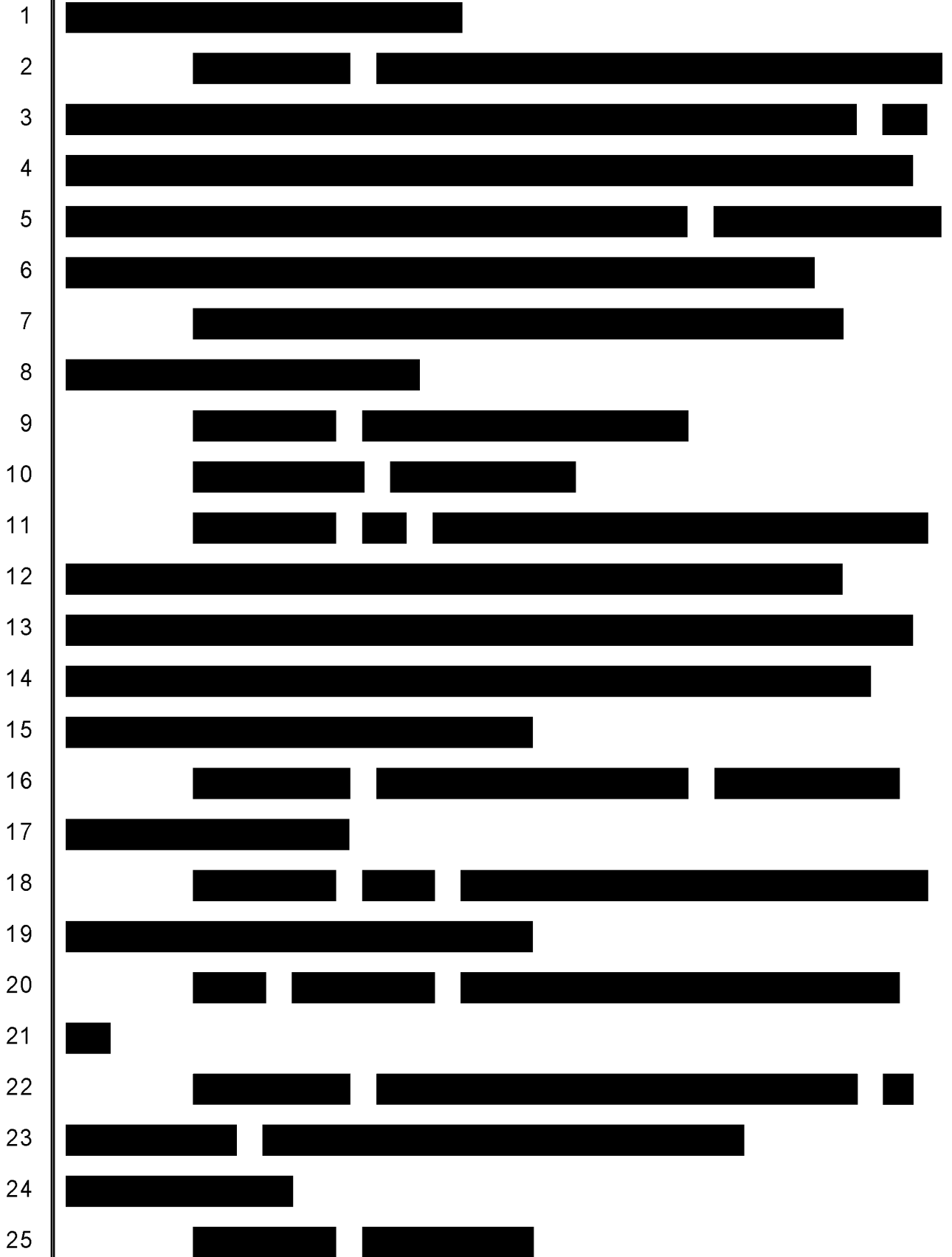
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(Court adjourned, to reconvene 4/10/17 at 9:30 a.m.)

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CERTIFICATE

We certify that the foregoing is a correct transcript
from the record of proceedings in the above-entitled matter.

/s/Judith A. Walsh

Judith A. Walsh
Official Court Reporter

April 6, 2017

Date

/s/Charles R. Zandi

Charles R. Zandi
Official Court Reporter

April 6, 2017

Date