

# **EXHIBIT 11**

IN THE UNITED STATES DISTRICT COURT  
MIDDLE DISTRICT OF FLORIDA  
ORLANDO DIVISION

IN RE:

SEROQUEL PRODUCTS LIABILITY LITIGATION

CASE NO. 6:06-MD-01769-ACC-DAB

MDL DOCKET NO. 1769

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May 28, 2008  
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Confidential Videotaped  
Oral Deposition of MARTIN BRECHER, M.D.,  
D.M.Sc., MBA, held in the offices of  
Golkow Technologies, Inc., One Liberty  
Place, 51st Floor, Philadelphia,  
Pennsylvania beginning at approximately  
9:00 a.m., before Ann V. Kaufmann, a  
Registered Professional Reporter,  
Certified Realtime Reporter, Approved  
Reporter of the U.S. District Court, and  
a Notary Public.

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GOLKOW TECHNOLOGIES, INC.  
One Liberty Place, 51st Floor  
Philadelphia, Pennsylvania 19103  
877.370.3377

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<p>1 merged entity for six to eight months 2 when I joined. 3 Q. And you mentioned that 4 Wayne Geller came over from Janssen a 5 little bit after you; correct? 6 A. That's right. 7 Q. Was there any connection 8 between you going to AstraZeneca and 9 Dr. Geller going to AstraZeneca or was 10 it coincidence? 11 A. I had given Wayne Geller's 12 name to the director of safety as 13 someone who was a good worker. 14 Q. Okay. So was he recruited 15 to work at AstraZeneca because of your 16 recommendation? 17 A. Possibly. I remember a 18 conversation with Vikram Dev. I 19 don't -- and I don't think I would have 20 offered. I think, my best recollection, 21 he would have asked, do you know. So it 22 would have been along the lines, do you 23 know any good safety people. 24 And assuming that was the</p>	<p>1 cursed studies? 2 A. Sorry? Any? 3 Q. Cursed studies. 4 MR. McCONNELL: Objection to 5 form. 6 A. I don't know any cursed 7 studies. 8 Q. Okay. Do you know any 9 studies that you reviewed where smoke 10 and mirrors were used to present them? 11 MR. McCONNELL: Objection to 12 form. 13 A. I don't -- I heard that 14 expression in one context, I don't 15 remember which, but that -- but 16 certainly in my review of the documents 17 when I joined the company, it did not 18 include a reference to smoke and 19 mirrors. 20 Q. Do you know about study 15? 21 A. Pardon? 22 Q. Do you know about study 15? 23 A. Yes. 24 Q. What was study 15?</p>
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<p>1 question, I would have said, Yeah, Wayne 2 Geller. 3 Q. Okay. You trusted his 4 judgment? 5 A. Yes, I did. 6 Q. He wasn't fired from 7 Janssen, was he? 8 A. No. 9 Q. When you started in 10 December of 1999, did you take some 11 period of time to educate yourself about 12 Seroquel and what had happened 13 previously? 14 A. I tried. 15 Q. Did you take a look at what 16 studies were out there that had been 17 done that were successful studies? 18 A. I remember reviewing the 19 submissions to the FDA and the European 20 countries. 21 Q. Okay. Did you review the 22 studies that were failed studies? 23 A. I was aware of them. 24 Q. Okay. Did you review any</p>	<p>1 A. Study 15 was a long-term 2 study comparing three doses of Seroquel 3 to haloperidol for the prevention of 4 relapse in schizophrenia. 5 Q. Okay. And when did you 6 first become familiar with study 15? 7 A. I must have read about it 8 in reviewing the submission documents to 9 the FDA and the EEU because it was in 10 the package. 11 Q. Okay. Did you ever review 12 the weight gain data from study 15? 13 A. I can't say. I don't 14 believe the weight gain -- I don't think 15 there was a lot of weight gain data from 16 study 15 because, as I understand now, 17 only 28 patients actually completed a 18 year of treatment. 19 Q. I'm going to show you what 20 was previously marked as Schwartz 21 Exhibit No. 41 and now is marked as 22 Brecher Exhibit 3. 23 (Below-described document 24 marked Brecher Exhibit 3.)</p>

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1 BY MR. BLIZZARD:  
2 Q. Do you see that this is an  
3 e-mail or an internal memorandum that's  
4 dated February 12, 1997?  
5 MR. McCONNELL: Objection,  
6 foundation.  
7 A. I'm sorry, your question  
8 again, please?  
9 Q. Do you see this is an  
10 e-mail dated February 12, 1997?  
11 Actually, strike that.  
12 Do you see this as an  
13 internal memorandum dated February 12,  
14 1997?  
15 A. Yes.  
16 Q. It says here that it is  
17 from Richard Lawrence. Do you know who  
18 Richard Lawrence is?  
19 A. I never met him, and his  
20 name has come up, but he was way before  
21 my time.  
22 Q. Okay. Well, this looks  
23 like it's about almost three years  
24 before your time.

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1 A. That's right.  
2 Q. It's regarding a  
3 U.S./Canada investigator meeting and  
4 study 15. Do you know anything about  
5 the U.S./Canada investigator meeting?  
6 A. No.  
7 Q. Did you review any of the  
8 that material when you came on board at  
9 AstraZeneca?  
10 A. I don't recall ever seeing  
11 material specifically relating to the  
12 U.S./Canada investigator meeting.  
13 Q. Do you see that this  
14 distribution of this e-mail went to Don  
15 Stribling?  
16 A. Yes.  
17 Q. Do you know who Don  
18 Stribling is?  
19 A. I knew him when he worked  
20 in Japan. He once came to a meeting  
21 that we had with our Japanese  
22 collaborators. And he subsequently was  
23 the head of regulatory affairs.  
24 Q. So he was pretty high up

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1 the corporate totem pole, wasn't he?  
2 MR. McCONNELL: Objection to  
3 form.  
4 A. I don't know what position  
5 he had in 1997.  
6 Q. Well, when you knew him, he  
7 was fairly high up the corporate totem  
8 pole, wasn't he?  
9 A. Yes.  
10 MR. McCONNELL: Objection to  
11 form.  
12 A. Yes. He was the --  
13 Q. Let me try corporate  
14 ladder.  
15 A. In his role as the head of  
16 regulatory affairs for the company,  
17 that's a responsible and senior position  
18 within the clinical development  
19 organization.  
20 Q. Okay. Now, do you see in  
21 this -- first of all, that this was CC'd  
22 to a Lisa Arvanitis?  
23 A. Yes.  
24 Q. Do you see that? Do you

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1 know who Lisa Arvanitis is?  
2 A. Lisa Arvanitis was the  
3 medical leader for Seroquel probably at  
4 the time of the writing of this e-mail.  
5 She had been gone from the company for  
6 some time when I arrived.  
7 Q. So was she in your job as  
8 of the time of this e-mail?  
9 A. To the extent -- I think  
10 she was the medical leader for Seroquel  
11 at the time. I think that's a fair  
12 guess on my part. Obviously I wasn't  
13 there, but I was aware that Lisa  
14 Arvanitis was leading the quetiapine  
15 effort, and so I think that she had a  
16 job roughly analogous to mine.  
17 Q. Okay. Do you see where it  
18 says in the e-mail here that: "I am not  
19 100% comfortable with this data being  
20 made publicly available at the present  
21 time....however I understand that we  
22 have little choice....Lisa has done a  
23 great 'smoke and mirrors' job!" Do you  
24 see that?

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1 Q. Okay. So he wasn't happy,  
2 was he?  
3 MR. McCONNELL: Objection to  
4 form.  
5 A. Well, I think his e-mail  
6 speaks for itself. I think he was --  
7 expressed concern, I would say. As he  
8 said he questioned the rationale for  
9 distributing it to the marketing people  
10 for, quote, informal review.  
11 Q. And your response is to say  
12 I don't see a problem with marketing  
13 knowing where we're going; correct?  
14 A. Yes.  
15 Q. Were you trying to lobby  
16 the marketing people to support you in  
17 the decision to keep "limited" in the  
18 core data sheet?  
19 A. I don't think that's where  
20 that e-mail is going at all. I think  
21 all I'm saying there is I didn't see a  
22 problem with marketing knowing what our  
23 position was. And that's what I said  
24 before, before you showed me this

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1 document, I said I didn't see a problem  
2 with the marketing people seeing the  
3 discussion documents prior to the  
4 meeting.  
5 Q. Well, do you see a problem  
6 with soliciting their comments to the  
7 discussion document?  
8 A. I think that this -- it  
9 would be inappropriate if a drug safety  
10 person would ask for marketing comments,  
11 and I don't think that ever happened.  
12 This --  
13 Q. Well, you were -- I'm  
14 sorry. Go ahead.  
15 A. This discussion document,  
16 as I said, immediately after you showed  
17 it to me, is unusual in that it's being  
18 produced by a member of the Seroquel  
19 team. And I have offered a possible  
20 explanation why. And clearly the writer  
21 wanted to get marketing's view on the  
22 content.  
23 Q. Well, did you -- you were  
24 on the e-mail that was sent by Emma

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1 Witch soliciting comments of the  
2 marketing folks and others; correct?  
3 A. Yes.  
4 Q. Okay. Did you say "Whoa,  
5 Emma, don't go submitting this for  
6 comment to the marketing people"?  
7 A. I did not.  
8 Q. Did you tell her in any way  
9 that she should hold off sending this to  
10 marketing for comment because it was  
11 inappropriate?  
12 A. I did not.  
13 Q. Now, the discussion -- the  
14 SERM meeting that occurred in June of  
15 2000, did you attend that in person?  
16 A. The June 2000 SERM, yes.  
17 Q. Where did it occur?  
18 A. It must have occurred in  
19 Wilmington.  
20 Q. Okay. But you specifically  
21 have a memory of being there for the  
22 meeting?  
23 A. Not a strong one. You  
24 know, it's clear from the earlier

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1 document that you showed me that I was  
2 there. And I don't have a vivid  
3 recollection of the meeting, but I do  
4 have a recollection of being there.  
5 (Below-described document  
6 marked Brecher Exhibit 18.)  
7 BY MR. BLIZZARD:  
8 Q. I have handed you  
9 Exhibit No. 18, and it has a number of  
10 handwritten notes on it. Are those --  
11 is that your handwriting?  
12 A. Yes.  
13 (Below-described document  
14 marked Brecher Exhibit 19.)  
15 BY MR. BLIZZARD:  
16 Q. Before I get to what that  
17 says, let me mark as Exhibit 19 to your  
18 deposition -- are these draft minutes of  
19 a meeting in July of 2000?  
20 A. This is -- are you talking  
21 about 19?  
22 Q. Yes.  
23 A. They are draft minutes.  
24 Q. Okay. Is that a -- are the

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1 minutes prepared by Emma Witch?  
2 A. Yes.  
3 Q. And is Emma Witch shown as  
4 an attendee at this meeting?  
5 A. Yes.  
6 Q. Are these other people  
7 involved in this meeting, SERM members?  
8 A. Wayne is a SERM member.  
9 I don't know whether or not  
10 Paul Duffy would have participated in  
11 SERM. He was a -- he is a toxicologist  
12 and was involved in the preclinical work  
13 with Seroquel.  
14 Q. Okay. So these meeting  
15 minutes do not reflect the minutes of  
16 SERM, do they?  
17 A. No.  
18 Q. Okay. This is a separate  
19 meeting that relates to the preparation  
20 of the FDA response to the -- on the  
21 diabetes issue?  
22 A. Response to the FDA, right.  
23 Q. Okay. Well, we will get to  
24 that in a minute then.

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1 Take a look at the  
2 discussion document for Seroquel. These  
3 handwritten notes that were made on this  
4 document, Exhibit 18, were -- when were  
5 those made?  
6 A. You know, I'm not sure what  
7 document this is. I can guess, but  
8 perhaps you could tell me.  
9 Q. Well, as the title says,  
10 "Diabetes Mellitis, Diabetic  
11 Ketoacidosis, Non-Ketotic Hyperosmolar  
12 Coma, and Hyperglycaemia." And it is a  
13 discussion document regarding Seroquel;  
14 correct?  
15 A. Yes.  
16 Q. And it's prepared by Wayne  
17 Geller; correct?  
18 A. Yes.  
19 Q. I believe that this  
20 document was prepared in advance of the  
21 SERM meeting and was discussed at the  
22 SERM meeting. That's my belief. Do you  
23 recall that?  
24 A. Are you referring to the

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1 June 2000 SERM meeting?  
2 Q. Yes.  
3 A. That's what I think as  
4 well. I just don't see a date on this  
5 document. But looking at the cover and  
6 just quickly glancing through the  
7 interior, I think this is the discussion  
8 document or a draft of it prepared for  
9 this -- as a discussion document for the  
10 June 2000 SERM.  
11 Q. Okay. What I would like  
12 for you to do for me is to read your  
13 handwriting. Sometimes I can read it;  
14 sometimes I can't. And I want to make  
15 sure we have an accurate rendition of  
16 your handwritten notes from this  
17 meeting.  
18 First, on the first page at  
19 the top, what does that say?  
20 A. Where it says 1)?  
21 Q. Yes.  
22 A. That's angioedema.  
23 Q. What have you crossed  
24 through at 2)?

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1 A. I think it's -- "limited"  
2 is crossed out.  
3 Q. Okay. What's No. 3)?  
4 A. It looks like  
5 "hyperglycemia" and "diabetes."  
6 Q. Okay. Do you know why  
7 "limited" is crossed out in No. 2)?  
8 A. I can't recall.  
9 Q. Is it possible it relates  
10 to the weight gain issue?  
11 A. I have no recollection what  
12 I was thinking when I wrote these notes.  
13 Q. Okay. So all you can do at  
14 this point is read them to me; correct?  
15 A. That's right.  
16 Q. Okay. What does the note  
17 on the right-hand margin say that says  
18 "OS"?  
19 A. I think that's "US."  
20 Q. Okay.  
21 A. That makes more sense to  
22 me. And I think to the right of that it  
23 says "involuntary movements."  
24 Q. Okay. And then it says

<p style="text-align: right;">Page 338</p> <p>1 "CDS"?</p> <p>2 A. "Discussion."</p> <p>3 Q. What does "CDS" stand for?</p> <p>4 A. Core data sheet.</p> <p>5 Q. Okay. Then on the first</p> <p>6 page out on the left-hand side under the</p> <p>7 heading "All Findings Presented in This</p> <p>8 Document Are to Be Subject to Further</p> <p>9 Consideration at SERM," does it say "6</p> <p>10 cases"?</p> <p>11 A. Yes.</p> <p>12 Q. What does it say beneath</p> <p>13 that?</p> <p>14 A. Below that?</p> <p>15 Q. Yes.</p> <p>16 A. I can't make out the first</p> <p>17 word. And then it says "time to onset</p> <p>18 new diabetes 0.5 months." Oh,</p> <p>19 "Median." "Median time to new onset</p> <p>20 diabetes 0.5 months."</p> <p>21 Q. Okay. And then in the</p> <p>22 middle of that, just to the right of</p> <p>23 that note, what does that say? It says</p> <p>24 "Wayne" at the top and that is</p>	<p style="text-align: right;">Page 340</p> <p>1 director.</p> <p>2 Q. Okay. Do you know what the</p> <p>3 "6 cases" references?</p> <p>4 A. You know, I don't know if</p> <p>5 it's the same six cases referred to on</p> <p>6 the left.</p> <p>7 Q. Okay. And what does it say</p> <p>8 beneath that? There's an arrow pointing</p> <p>9 down.</p> <p>10 A. I can't quite read the</p> <p>11 first word. And then the second word is</p> <p>12 "CDS in line with US PI?" Oh, "bring."</p> <p>13 I think it says "Bring CDS in line with</p> <p>14 US PI?"</p> <p>15 Q. Okay. So there was some</p> <p>16 question about whether -- or somebody</p> <p>17 was raising the question of whether the</p> <p>18 CDS should be brought in line with the</p> <p>19 U.S. package insert; correct?</p> <p>20 A. I don't know if that was my</p> <p>21 question or someone else's question.</p> <p>22 Q. Okay. And then underneath</p> <p>23 that what does it say?</p> <p>24 A. "Conclusion: Keep issue</p>
<p style="text-align: right;">Page 339</p> <p>1 underlined?</p> <p>2 A. Yeah. "Page 8, 2240 base</p> <p>3 rates." And then it says something that</p> <p>4 doesn't make sense to me, gdv or gov. I</p> <p>5 don't know what that means --</p> <p>6 Q. Okay.</p> <p>7 A. -- with a question mark.</p> <p>8 Q. And then over on the right-</p> <p>9 hand margin, what does that say?</p> <p>10 A. "Emma, MJ - dose</p> <p>11 response." MJ would be Martin Jones.</p> <p>12 And then below that --</p> <p>13 Q. Is Emma Emma Witch?</p> <p>14 A. Probably. I think that we</p> <p>15 also had an Emma Westhead, but -- so I</p> <p>16 don't know which Emma this is referring</p> <p>17 to.</p> <p>18 Q. Okay.</p> <p>19 A. And then "Geert - 6 cases,</p> <p>20 conclusions."</p> <p>21 Q. So what does "Geert" refer</p> <p>22 to?</p> <p>23 A. Geert would refer to Geert</p> <p>24 deVriese, who was the global product</p>	<p style="text-align: right;">Page 341</p> <p>1 under review."</p> <p>2 Q. And then under -- on the</p> <p>3 bottom of the page what does it say?</p> <p>4 A. "Of 10 cases from clinical</p> <p>5 trials," arrow "each source?"</p> <p>6 Q. Second page up at the top?</p> <p>7 A. "RIS labelled for diabetes,</p> <p>8 DKA."</p> <p>9 Q. And that's diabetic</p> <p>10 ketoacidosis?</p> <p>11 A. That's what the DKA would</p> <p>12 stand for.</p> <p>13 Q. Okay. Under -- right next</p> <p>14 to the "Introduction" section, what does</p> <p>15 that say?</p> <p>16 A. "Criteria used in this</p> <p>17 assessment." It looks like "FBS," which</p> <p>18 would be fasting blood sugar, "greater</p> <p>19 than 126 2 hour post, 75 grams greater</p> <p>20 than 200."</p> <p>21 Q. Okay. Can you interpret</p> <p>22 that note?</p> <p>23 A. Yeah. I think that -- what</p> <p>24 I think it means, without confirming it</p>

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<p>1 from the text, is that the criteria used</p> <p>2 in the assessment was either a fasting</p> <p>3 blood sugar greater than 126 or a</p> <p>4 two-hour glucose value following 75</p> <p>5 grams of glucose -- in other words, a</p> <p>6 glucose tolerance test -- with a value</p> <p>7 greater than 200.</p> <p>8 Q. Okay. If you go turn the</p> <p>9 page to the next note that we have. It</p> <p>10 looks like it's over on Page 6.</p> <p>11 Okay. What does that say?</p> <p>12 A. On the top?</p> <p>13 Q. Yes.</p> <p>14 A. "No attribution." And then</p> <p>15 to the right of that it says "16,</p> <p>16 SPONT," probably referring to --</p> <p>17 standing for spontaneous; "10</p> <p>18 clinical" -- "10 CLIN trials," referring</p> <p>19 to ten clinical trials; and "2 lit</p> <p>20 reports." So what this is referring to</p> <p>21 is 16 spontaneous reported adverse</p> <p>22 events, ten clinical trial reports, and</p> <p>23 two reports in the literature, and they</p> <p>24 are pointing to no attribution.</p>	<p>1 A. Yes.</p> <p>2 Q. And you starred that?</p> <p>3 A. Yes.</p> <p>4 Q. And do you know why you</p> <p>5 starred it?</p> <p>6 A. No.</p> <p>7 Q. I assume that you starred</p> <p>8 things that were important to you; is</p> <p>9 that correct?</p> <p>10 A. Presumably. I certainly</p> <p>11 don't -- I'd have to pore over this</p> <p>12 document to see what were the common</p> <p>13 features of the starred cases. I don't</p> <p>14 recall that now.</p> <p>15 Q. Okay. Look over at the</p> <p>16 next page. Do you see that there's a</p> <p>17 starred event on this page as well?</p> <p>18 A. Yes.</p> <p>19 Q. And the next page, "Loss of</p> <p>20 Diabetic Control, Tooth Pain, Insomnia"?</p> <p>21 A. Yes.</p> <p>22 Q. Do you see that that event</p> <p>23 is starred?</p> <p>24 A. Yes.</p>
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<p>1 Q. Okay. Under "CLINTRACE</p> <p>2 Database (In House Safety Data),"</p> <p>3 there's a note that says "9 cases"?</p> <p>4 A. "9 cases new onset, 4 DKA,</p> <p>5 2 new onset, 2 worsening." And then</p> <p>6 below that is "NKHOC-0." And NKHOC</p> <p>7 would stand for nonketotic hyperosmolar</p> <p>8 coma.</p> <p>9 Q. And then you've got a star</p> <p>10 next to this particular description of</p> <p>11 this event of a 43-year-old male with a</p> <p>12 history of mental illness who developed</p> <p>13 new onset diabetes. Do you see that?</p> <p>14 A. Yes.</p> <p>15 Q. Do you know why it was</p> <p>16 starred?</p> <p>17 A. No. And I'm just curious</p> <p>18 whether I starred other cases.</p> <p>19 Q. I think you did. Look over</p> <p>20 at the next page. Do you see that?</p> <p>21 A. Yes.</p> <p>22 Q. And this particular case is</p> <p>23 a diabetes case with weight gain;</p> <p>24 correct?</p>	<p>1 Q. If you look over at Page</p> <p>2 11 --</p> <p>3 A. Yes.</p> <p>4 Q. -- do you see a star there?</p> <p>5 A. Yes.</p> <p>6 Q. Do you know anything about</p> <p>7 why that star is there?</p> <p>8 A. I don't recall the</p> <p>9 principle leading to the starring of</p> <p>10 cases.</p> <p>11 Q. Okay. If you look over on</p> <p>12 Page 15, there's a star next to another</p> <p>13 case of hyperglycemia?</p> <p>14 A. Yes.</p> <p>15 Q. Okay. On Page 16 --</p> <p>16 A. Yes.</p> <p>17 Q. -- could you read that</p> <p>18 handwriting for us?</p> <p>19 A. It says "Median?" Below</p> <p>20 that "time to onset." There's text that</p> <p>21 reads "The former patient reportedly</p> <p>22 lost 30 pounds," and then there's a line</p> <p>23 from that going to a handwritten note</p> <p>24 saying "Type 1 - pattern."</p>



<p style="text-align: right;">Page 346</p> <p>1 Below that it says "2 cases 2 of DKA - weight gain associated." And 3 then below that there's a -- it says 4 "criteria greater than 110" -- it looks 5 like greater than 110 pounds, but I'm 6 not sure what that means. 7 Q. This relates to reports of 8 hyperglycemia. 9 A. Oh, I'm sorry. I can -- 10 this one on Page 16 on the bottom that 11 the arrow says "criteria greater than 12 110 fbs," it's for fasting blood sugar. 13 Q. Okay. And the last page, 14 Page 17, what does the note at the top 15 say? 16 A. "Note, Wayne impressed by 2 17 physicians noting diabetes onset with 18 dose increase." 19 Q. Okay. So does that note 20 reflect that Dr. Geller was impressed 21 with the dose-response? 22 A. I don't think that 23 represents a dose-response so much as 24 exactly what it says, that two</p>	<p style="text-align: right;">Page 348</p> <p>1 No positive re,de challenge. No 2 baseline CHO," referring to no baseline 3 glucose. "Low number of cases for a 4 common condition." 5 That's actually an important 6 point because diabetes is very common. 7 And my comment here, I think, reflects 8 the view that this is a small number of 9 cases for an illness as common as 10 diabetes, given the exposure that we had 11 by 2000. 12 "No mechanism of effect." 13 On the right it says "For 14 my part only 4 cases of DKA speaks to 15 absence of diabetogenic effect." 16 Below that: "Other 17 patients: 1., will get long term data 18 from olanz trial. 2., will" -- 19 Q. What's "olanz trial"? 20 A. That would refer to 21 olanzapine, but I'm not -- I don't know 22 what olanzapine trial I was referring 23 to, unless -- probably given that it was 24 2000, it could either have referred to</p>
<p style="text-align: right;">Page 347</p> <p>1 physicians noted diabetes onset 2 following a dose increase. I don't 3 think that indicates a dose-response. 4 Q. It indicates that the 5 diabetes onset occurred after the dose 6 was increased; right? 7 A. That's right. It is 8 different from a dose-response. 9 Q. Okay. The next item in the 10 middle of the page says what? 11 A. "Usually no baseline blood 12 glucose. 7 taking drugs associated with 13 diabetes. Some reports - scant 14 information" -- "scant inf" meaning 15 scant information -- "no positive de," 16 which means no positive dechallenge or 17 rechallenge. 18 Q. What's the next note say? 19 A. "Seroquel may cause 20 impaired glucose regulation in some 21 individuals. No signal of Type 1 ie no 22 negative impact on insulin production." 23 Q. Okay. 24 A. Well, that -- "Discussion:</p>	<p style="text-align: right;">Page 349</p> <p>1 the long-term trials that Lilly 2 conducted or to the long-term trial that 3 Janssen conducted. 4 And then below that, 5 "will" -- 6 Q. "Know more?" 7 A. "Will" -- 8 Q. -- "know more after 9 response to FDA concludes." 10 A. I think so. 11 Q. I may have stared at it 12 longer than you, so whatever you need to 13 do to confirm it. 14 A. Yeah, I think that's right. 15 Q. Okay. So in looking at 16 this, you made the -- when you started 17 talking about this discussion down here 18 below the line, you may have said, well, 19 here are a couple of important points. 20 And then there's these 21 comments above the line that you read 22 without making a comment about it. 23 Is it your memory, from 24 looking at this now, that the points</p>

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1 metabolism disorders. Dear Wayne, thank  
2 you for yoy fax" -- I guess that is  
3 supposed to be "your fax" -- "which I  
4 sent to the local authorities."  
5 A. Yes.  
6 Q. And when he actually faxed  
7 it to her, if you look at the --  
8 Geller's communication on Page 2, do you  
9 see where he says: "Hi, Dorothee. The  
10 document is 11 pages. I can fax a  
11 signed copy to you or mail one. If you  
12 prefer the latter, please send me your  
13 address and I will send it out at  
14 once." Do you see that?  
15 A. Yes.  
16 Q. And then she sends back and  
17 says thanks for the fax; correct?  
18 A. Yes.  
19 Q. Okay. So, again,  
20 Dr. Geller is offering to sign this  
21 document before faxing it; right?  
22 MR. McCONNELL: Objection to  
23 form.  
24 BY MR. BLIZZARD:

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1 Q. Let me rephrase that.  
2 Dr. Geller is offering to sign the  
3 document that was attached; right?  
4 MR. McCONNELL: Same  
5 objection.  
6 A. Wayne is offering to sign  
7 the document.  
8 Q. Right. and would that  
9 indicate to you, as a reasonable person  
10 who conducts business in the way that  
11 people typically conduct business, that  
12 that is not a draft?  
13 MR. McCONNELL: Objection to  
14 form.  
15 A. I was not involved with  
16 this correspondence between the Dutch  
17 and Wayne. And if Wayne was mistaken  
18 about his document, I don't think it  
19 matters whether or not he signed it or  
20 not. I don't know whether he knew it  
21 was a draft or not. And I can't  
22 comment. I just don't know his  
23 procedures well enough to comment on  
24 what's the implication of signing the

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1 document.  
2 Q. What is the implication  
3 when you sign a document?  
4 MR. McCONNELL: Objection to  
5 form.  
6 A. When I sign a document, I  
7 usually -- it means that I wrote this  
8 document.  
9 Q. It means you are taking  
10 responsibility for what's in the  
11 document; right?  
12 A. Usually.  
13 Q. And that's what it would  
14 mean here, wouldn't it, that he was  
15 taking responsibility as a global drug  
16 safety physician for the statements made  
17 in the document?  
18 A. I want to say --  
19 MR. McCONNELL: Excuse me.  
20 Objection to form.  
21 A. I want to say two things:  
22 I don't know what Wayne -- was going  
23 through Wayne's mind and I don't want to  
24 comment on what it meant that he signed

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1 this document.  
2 Moreover, if we get back to  
3 the document, I just don't feel that the  
4 arguments and the data that are in the  
5 document, particularly in the executive  
6 summary, are supporting the  
7 conclusions. So -- but, regardless, I  
8 don't think that -- I just can't  
9 comment -- I don't know whether this was  
10 the document that was mistakenly sent  
11 and I don't know --  
12 Q. How do you --  
13 A. I can't comment on the  
14 interaction between Wayne and the Dutch  
15 authorities because I was not involved  
16 in that transaction.  
17 Q. Well, the e-mail that we  
18 just reviewed clearly indicates that the  
19 Dutch authorities were asking for an  
20 analysis of glucose metabolism and  
21 Seroquel; correct?  
22 MR. McCONNELL: Objection to  
23 form.  
24 A. The Dutch wanted a review

<p style="text-align: right;">Page 378</p> <p>1 of cases or an analysis of cases of 2 diabetes and glucose metabolism that may 3 or may not have been related to 4 Seroquel. 5 Q. Right. And people within 6 the marketing company over in the 7 Netherlands asked Wayne Geller to submit 8 a paper, and he offered to sign and 9 faxed this safety position paper to 10 them; correct? 11 MR. McCONNELL: Objection to 12 form. 13 A. Wayne attempted to be 14 responsive to a request and offered to 15 sign a document. 16 Q. Now, the Dutch authorities 17 weren't just acting as a single country 18 in Europe at the time with respect to 19 Seroquel, were they? 20 A. The Dutch was a reference 21 member state. 22 Q. And the reference member 23 state takes the lead for the entire 24 European Union with respect to a</p>	<p style="text-align: right;">Page 380</p> <p>1 was the one that was submitted to the 2 Dutch, that contained markedly different 3 conclusions than the one that was given 4 to the FDA, didn't it? 5 A. Well, I don't think I've 6 looked at the FDA position paper today. 7 And I think the position stated here is 8 at variance with the FDA position paper. 9 Q. Okay. Well, we can look at 10 the FDA position paper, and we will 11 probably do that tomorrow. But I mean, 12 without reading it, you know that the 13 company did not write a paper to the FDA 14 saying that there's reasonable evidence 15 to -- that Seroquel can cause diabetes 16 or hyperglycemia in certain individuals? 17 A. That's right. 18 Q. Right. In fact, you never 19 sent this safety position paper of 20 Dr. Geller to the FDA, did you? 21 MR. McCONNELL: Objection to 22 form. 23 A. I don't think this safety 24 position paper was sent to the FDA.</p>
<p style="text-align: right;">Page 379</p> <p>1 particular drug that they are the 2 reference member state for; right? 3 A. Right, for those states 4 participating in the process. 5 Q. Okay. Do you know how many 6 states in the European Union were 7 participating in the process at the time 8 in 2000 when this paper was sent to the 9 Dutch authorities? 10 A. Well, account -- you know, 11 there were new countries that joined the 12 European Union over time, so I don't 13 recall how many were there in 2000. 14 What I do know is that 15 France was not a part of it and we had a 16 separate registration procedure in 17 England and Italy. So that the 18 reference member state would have -- or 19 that role as reference member state 20 would have applied to the other Western 21 European countries. 22 Q. Okay. Now, this document 23 that we just read the conclusion of that 24 was submitted to the Dutch, assuming it</p>	<p style="text-align: right;">Page 381</p> <p>1 Q. Right. Even today FDA 2 doesn't have this safety position paper, 3 does it? 4 A. And I don't think that this 5 represents the view of AstraZeneca or 6 the drug safety department at that time 7 or, for that matter, now. 8 MR. BLIZZARD: Objection, 9 nonresponsive. 10 BY MR. BLIZZARD: 11 Q. Now, let me ask you 12 something that's really on a different 13 subject now, and I think with that I'd 14 like to maybe conclude for the day and 15 we will save some additional time for 16 tomorrow. 17 After the SERM meeting in 18 2007 there was a discussion document 19 that was actually presented at the SERM 20 meeting. And I have a copy of it. I'm 21 not going to attach it today, but I 22 think it's about 500 pages long. Do you 23 recall that document? 24 A. It was a long discussion</p>

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1 Q. Do marketing and commercial  
2 people at AstraZeneca have any role  
3 whatsoever in the SERM process?  
4 A. They do not.  
5 Q. Doctor, as part of the  
6 preparation for SERM, is safety data  
7 review and analyzed?  
8 A. Yes.  
9 Q. Could you explain to the  
10 jury what type of data is reviewed and  
11 analyzed as part of the SERM process?  
12 A. The SERM reviews should  
13 include, and typically do include, the  
14 data from clinical trials, postmarketing  
15 surveillance and literature reviews, and  
16 sometimes the preclinical data as well.  
17 Q. Is material from the global  
18 drug safety database reviewed as part of  
19 the SERM process?  
20 A. Yes.  
21 Q. Doctor, did AstraZeneca  
22 create the SERM process specifically to  
23 examine the glucose issue relating to  
24 Seroquel?

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1 A. Yes.  
2 Q. They did that in the spring  
3 of 2000?  
4 A. The SERM meeting for glucose  
5 was in June of 2000.  
6 Q. Okay. Does AstraZeneca also  
7 use the SERM process at times for other  
8 drugs involving other issues?  
9 A. The SERM process is used for  
10 all drugs, all marketed drugs at  
11 AstraZeneca.  
12 Q. Does AstraZeneca convene  
13 SERMs only to respond to FDA requests?  
14 A. No.  
15 Q. In your experience, is the  
16 SERM process an effective tool to monitor  
17 the safety of the drug?  
18 A. Yes.  
19 Q. Why?  
20 A. The SERM -- a SERM meeting  
21 is called whenever a question or an issue  
22 is raised around the safety of marketed  
23 medicine. So that could happen whether  
24 concerns are raised from within the

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1 company or in response to a request from  
2 a regulatory agency.  
3 Q. Does the SERM process play a  
4 role in determining whether the core data  
5 sheet should be changed?  
6 A. Yes.  
7 Q. What is the core data sheet?  
8 A. The core data sheet is the  
9 best description of the safety profile of  
10 the drug and represents the core items  
11 that have to be included in every product  
12 label. So it's that -- those facts about  
13 the safety of the drug that must be  
14 included in every label around the world.  
15 Q. When AstraZeneca does  
16 convene a SERM, does the SERM always  
17 conclude that the core data sheet should  
18 be changed?  
19 A. No, it doesn't.  
20 Q. Does the SERM always  
21 conclude that the core data sheet should  
22 not be changed?  
23 A. No, it doesn't.  
24 Q. What explains the difference

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1 in those different kinds of decisions?  
2 A. The critical point is  
3 whether the label accurately reflects the  
4 safety profile of the drug as we  
5 understand it.  
6 Q. Does the SERM decision as to  
7 whether or not to change the core data  
8 sheet depend in any way upon the  
9 available data?  
10 A. The SERM decision to change  
11 the core data sheet depends entirely on  
12 the data.  
13 Q. Is the SERM process the only  
14 way that AstraZeneca monitors the safety  
15 of Seroquel?  
16 A. No.  
17 Q. What other procedures are in  
18 place at AstraZeneca to monitor the  
19 safety of Seroquel?  
20 A. The drug safety department  
21 is monitoring safety on a continuous  
22 basis. And so are the clinical trials  
23 people. Clinical trials people are  
24 monitoring safety as the clinical trials

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1 are ongoing.  
2 Q. Does anyone or any  
3 department at AstraZeneca monitor adverse  
4 events?  
5 A. Primarily drug safety and  
6 also the clinical group.  
7 Q. Does AstraZeneca submit  
8 periodic safety updates to the FDA?  
9 A. Yes.  
10 Q. In your experience, did  
11 AstraZeneca closely monitor the safety of  
12 Seroquel?  
13 A. Yes.  
14 Q. Now, you've discussed the  
15 SERM process generally. Are there  
16 documents that are associated with the  
17 SERM process?  
18 A. Yes. Prior to a SERM  
19 meeting there's a discussion document.  
20 Following the SERM meeting there is  
21 either a position paper or justification  
22 document that's prepared.  
23 Q. What's the purpose of a  
24 discussion document for SERM?

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1 A. A discussion document is  
2 written so as to inform the discussions  
3 at SERM of all the relevant facts.  
4 Q. What's the purpose of a SERM  
5 position paper?  
6 A. A SERM position paper is  
7 that -- is a paper that is written after  
8 a SERM meeting when the core data sheet  
9 is not changed on a particular issue.  
10 And it reflects the reasoning as to why  
11 the core data sheet is not changed on  
12 that point.  
13 Q. Now, we talked about the FDA  
14 request in May of 2000 regarding glucose  
15 data. Did you participate in a SERM in  
16 2000 regarding glucose issues?  
17 A. Yes.  
18 Q. Was there, in fact, a  
19 discussion at AstraZeneca at the SERM  
20 regarding glucose data?  
21 A. Yes.  
22 Q. What did that SERM conclude  
23 regarding whether there was reasonable  
24 evidence of an association between

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1 Seroquel and hyperglycemia or diabetes?  
2 A. SERM decided to keep those  
3 issues under review, but not to change  
4 the core data sheet.  
5 Q. What did SERM conclude as to  
6 whether there was a causal link between  
7 Seroquel and hyperglycemia or diabetes?  
8 A. SERM did not conclude that  
9 there was a causal link between Seroquel  
10 and hyperglycemia or diabetes.  
11 Q. What did SERM conclude in  
12 2000 as to whether the data demonstrated  
13 reasonable evidence of an association  
14 between Seroquel and hyperglycemia or  
15 diabetes?  
16 A. SERM concluded that the data  
17 did not show a reasonable evidence of an  
18 association.  
19 Q. I want you to take a look at  
20 a document that the plaintiffs' lawyers  
21 put in front of you. It's Exhibit 18.  
22 Could we get a look at that?  
23 Doctor, first of all, do you  
24 remember taking a look at Exhibit 18, I

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1 don't know if it was yesterday or the  
2 day -- I think it was the day before  
3 yesterday?  
4 A. Yes, I remember.  
5 Q. Could you turn to the last  
6 page, please?  
7 A. Yes.  
8 Q. Do you see handwritten notes  
9 on that page?  
10 A. Yes.  
11 Q. And that's your handwriting.  
12 Is that right?  
13 A. Yes.  
14 Q. I want to direct your  
15 attention to the handwritten notes that  
16 are underneath the typed section of the  
17 page. Do you see what I'm talking about?  
18 A. Yes.  
19 Q. All right. Do you recall  
20 testifying on Wednesday that those notes  
21 were your reflections on reading the  
22 document?  
23 A. Yes.  
24 Q. I want to get you to focus

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1 questions now about another trial, it's  
2 one that you've been asked some questions  
3 about. I want to give you an opportunity  
4 to describe it to the jury. That's trial  
5 125. Were you involved with trial 125?  
6 A. Yes.  
7 Q. Could you explain to the  
8 jury what trial 125 is?  
9 A. Trial 125 was an effort by  
10 AstraZeneca to understand the effects of  
11 Seroquel on glucose metabolism. And to  
12 do that we used a more sensitive assay  
13 even -- than even the fasting glucose.  
14 We used the glucose tolerance test.  
15 That's very important because the glucose  
16 tolerance test becomes abnormal earlier  
17 in the course of diabetes than the  
18 fasting blood sugar so it was a sensitive  
19 test for the emergence of diabetes.  
20 We --  
21 Q. Would it be -- I'm sorry,  
22 keep going.  
23 A. We measured the area under  
24 the curve for the two hours of the

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1 glucose tolerance test, and that, too, is  
2 a sensitive measure of whether there's an  
3 effect of a drug on glucose regulation.  
4 That was -- that's one important point.  
5 The second important point  
6 was that we hospitalize the patients  
7 overnight both at baseline at week 12 and  
8 at week 24. And, therefore, we could be  
9 sure or as sure as one could reasonable  
10 want that the patients had not eaten  
11 prior to the exam both at baseline and at  
12 week 24.  
13 Third, we were able to find  
14 patients who had not been previously  
15 exposed to atypical antipsychotics, so we  
16 were measuring -- we were studying  
17 relatively naive patients, and so we were  
18 able to look at results independent of  
19 what the patients had been on before.  
20 And lastly, the study was a long study,  
21 it was 24 weeks, and so we were able to  
22 have a good assessment of what the  
23 prolonged effect of treatment was on  
24 patients' glucose metabolism.

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1 Q. Would it be absolutely  
2 accurate to describe trial 125 as a  
3 diabetes study?  
4 A. No, it was not a diabetes  
5 study. It was an attempt to look at the  
6 effects of Seroquel on glucose metabolism  
7 measured by the two-hour glucose  
8 tolerance test.  
9 Q. I just asked you about  
10 whether you can call 125 a diabetes  
11 study. Are there any ethical constraints  
12 to conducting a study that a scientist  
13 would actually be able to call a diabetes  
14 study?  
15 A. I think it will depend on  
16 the design. There are a lot of different  
17 design possibilities, and one -- it would  
18 depend -- you know, ethical issues in the  
19 study would depend on what was actually  
20 being done. One point about this study  
21 was that every patient received active  
22 medication. We could not use a placebo  
23 in this trial because it would have been  
24 unethical to deprive patients of

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1 medication for 24 weeks.  
2 Q. Did the FDA or any other  
3 government body require AstraZeneca to  
4 conduct trial 125?  
5 A. This was done on our  
6 initiative.  
7 Q. When did AstraZeneca decide  
8 to start designing and planning trial  
9 125?  
10 A. The decision to conduct that  
11 trial was made in November 2002.  
12 Q. Why then?  
13 A. That was shortly after we  
14 had received a strong label change in  
15 Japan and -- requiring us to provide  
16 warnings and I believe a contraindication  
17 for the use of Seroquel in patients with  
18 diabetes. And we recognized that we did  
19 not have sufficient data to address  
20 concerns that other regulatory agencies  
21 might have, and, therefore, we wanted to  
22 collect data that could establish, as  
23 best we could, the fact that Seroquel did  
24 not cause diabetes or it is not

Page 1019	Page 1021
<p>1 associated with glucose metabolism. And 2 conversely, if Seroquel was associated 3 with disorders of glucose metabolism, we 4 wanted to know and we wanted to have the 5 data in which to -- to be sure that that 6 was the case so we could write the label 7 accordingly. 8 Q. Why did AstraZeneca include 9 Risperdal in trial 125? 10 A. We wanted to compare 11 Seroquel to the two other comparators -- 12 to two competitors on the market. We 13 wanted to make sure that everybody got 14 medication. The study was, therefore, 15 able to compare all three drugs for their 16 effects on glucose metabolism. And the 17 study was able to look at the effects on 18 each drug relative to the others as well 19 as the change in each drug compared to 20 baseline. 21 Q. Why didn't AstraZeneca start 22 planning trial 125 prior to the year 23 2002? 24 A. We -- prior to the Japanese</p>	<p>1 that time did not show -- did not provide 2 any evidence that Seroquel caused 3 diabetes or abnormalities in glucose 4 regulation. 5 Q. Prior to the planning of 6 trial 125, did the postmarketing 7 surveillance data reveal evidence of a 8 causal link between Seroquel and diabetes 9 or hyperglycemia? 10 MR. PIRTLE: Leading. 11 THE WITNESS: The 12 postmarketing data did not provide 13 data showing a causal link between 14 Seroquel and diabetes. 15 BY MR. McCONNELL: 16 Q. At the time that you started 17 planning trial 125 in the fall of 2002, 18 were you aware of any trial like it that 19 any company had ever done? 20 A. I was not aware of any such 21 trial. I thought this was innovative on 22 our part. 23 Q. And in terms of numbers of 24 patients, was trial 125 a large clinical</p>
Page 1020	Page 1022
<p>1 action, we thought that our -- that the 2 data that we had gathered, particularly 3 the summary prepared for the FDA in 4 August of 2000, had established that 5 Seroquel was not associated with diabetes 6 or abnormalities in glucose metabolism. 7 The Japanese regulatory 8 action made it clear that our data was 9 not persuasive, at least to them, and so 10 we wanted to do two things as I just 11 said, gather data that would allow us to 12 persuade another regulatory agency that 13 might have had a concern; or conversely, 14 if there was than effect of Seroquel on 15 glucose metabolism, we wanted to show and 16 demonstrate it to ourselves. 17 Q. Prior to the planning of 18 trial 125, in your mind, had the 19 preclinical and clinical studies that 20 supported the FDA initial approval of 21 Seroquel revealed any evidence that 22 Seroquel could cause glucose 23 dysregulation? 24 A. The evidence that we had at</p>	<p>1 trial? 2 A. Yes. We enrolled 500 3 patients, a little over 500 patients, and 4 that's a moderate to large size trial, 5 especially for one that's going for 24 6 weeks. 7 Q. Did AstraZeneca consult with 8 outside experts on the design of trial 9 125? 10 A. I believe so. 11 Q. Who did you consult with? 12 A. I'm not sure. I don't 13 recall precisely who we consulted with. 14 Probably -- I think we consulted with 15 Woolf and Goldstein. I don't recall for 16 sure. Possibly consulted with John 17 Newcomer. Again, I don't recall for 18 sure. 19 Q. Does it take a long time to 20 get a trial -- 21 A. Let me finish. 22 Q. I'm sorry, go ahead. 23 A. We probably also consulted 24 with endocrinologists within the company.</p>

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1 A. That result is an important  
2 one. The primary result of the trial as  
3 stated in the protocol was the area under  
4 the curve from zero to two hours of the  
5 glucose -- of the glucose values  
6 following the ingestion of 75 grams of  
7 glucose. And what you can see in Table  
8 S4 is that the change from baseline for  
9 Seroquel was not statistically  
10 significant at week 24 compared to  
11 baseline, while the change from baseline  
12 from both olanzapine and risperidone was  
13 statistically significant.  
14 So in terms of the area  
15 under the curve of the glucose tolerance  
16 test, both olanzapine and risperidone  
17 showed a statistically significant  
18 worsening, whereas quetiapine did not.  
19 Also in Table S5 when you  
20 compare the change from baseline in the  
21 area under the curve, the difference  
22 between quetiapine and olanzapine was  
23 statistically significant, obviously  
24 olanzapine was worse, and the

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1 olanzapine-quetiapine difference was  
2 statistically significant in favor of  
3 quetiapine. The difference between  
4 quetiapine and risperidone was not  
5 statistically significant.  
6 Q. At week 24, can you tell if  
7 there was a -- what sort of increase, if  
8 any, there was from baseline and fasting  
9 glucose for people who were using  
10 quetiapine?  
11 A. We have to go -- it's not  
12 here. That -- the answer to that  
13 question I don't think is in the summary.  
14 I'm going to have to go into the body of  
15 the document to find that.  
16 MR. McCONNELL: Go off the  
17 record for a second.  
18 VIDEOGRAPHER: Off the  
19 record at 2:41.  
20 - - -  
21 (A recess was taken from  
22 2:41 p.m. to 2:52 p.m.)  
23 - - -  
24 VIDEOGRAPHER: The beginning

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1 of tape number four. We're back  
2 on the record at 2:52.  
3 BY MR. McCONNELL:  
4 Q. Doctor, did you manage to  
5 find the fasting glucose results for  
6 Seroquel?  
7 A. Yes.  
8 Q. What were the results?  
9 A. The change from base --  
10 MR. PIRTLE: Could you point  
11 me to the page? It's a big  
12 document.  
13 THE WITNESS: Page 156. The  
14 change at week 24 in the  
15 quetiapine group was .177  
16 millimeters per liter.  
17 BY MR. McCONNELL:  
18 Q. In the context of all the  
19 results of trial 125, did you find the  
20 results reassuring or not in terms of  
21 whether there was a connection between  
22 Seroquel and glucose dysregulation?  
23 A. We found it very reassuring.  
24 Q. Why is that?

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1 A. Because the change in the  
2 area under the curve, which is the  
3 primary assessment, was not -- did not  
4 change significantly between baseline in  
5 week 24, and also because there was no  
6 change at all in the two-hour value, that  
7 is the blood glucose value two hours  
8 after glucose challenge showed no change.  
9 That value typically begins to go up as  
10 diabetes emerges. And the fact that  
11 there was no change in that value after  
12 24 weeks on Seroquel was also reassuring.  
13 Q. Doctor, I want to direct  
14 your attention to other studies now,  
15 studies 126 and 127. My first question  
16 to you is, did AstraZeneca collect  
17 fasting glucose samples in trials 126 and  
18 127?  
19 A. We attempted to and we  
20 also -- and we collected the time since  
21 the last meal, which will enable us to  
22 ascertain whether -- reasonably ascertain  
23 whether the sample was fasted or not.  
24 Q. Can you explain to the jury



<p style="text-align: right;">Page 1035</p> <p>1 what it was that was studied in trials 2 126 and 127? 3 A. Trials 126 and 127 were 4 designed to show that Seroquel could 5 prevent relapse in patients with bipolar 6 disorder. It was a complicated trial 7 insofar as we studied patients who 8 either -- had recently had or were having 9 either a manic episode or an episode of 10 depression and who had recovered on 11 Seroquel and the mood stabilizer. And 12 then we randomly assigned patients to 13 continue on the combination or on the 14 mood stabilizer alone. It was a -- it 15 took a long time to recruit the number of 16 patients. And it was a long time to 17 accumulate the number of relapses. And 18 we conducted that study twice in order to 19 be sure of the result. 20 Q. What was the primary 21 endpoint of 126 and 127? 22 A. The primary endpoint was 23 relapse of -- having a relapse of either 24 a manic episode or a depressed episode.</p>	<p style="text-align: right;">Page 1037</p> <p>1 the glucose results from those studies? 2 A. Yes. 3 Q. Did you, in fact, do an 4 extensive reanalysis of the results? 5 A. We did extensive additional 6 analyses of the results of the glucose 7 parameters. 8 Q. And why did you do that 9 extensive reanalysis? 10 A. What we found in the pooled 11 safety results was changes in blood 12 glucose of similar magnitude that we had 13 observed before. We also saw similar 14 changes in hemoglobin A1c of the 15 magnitude we had seen before. But in 16 this trial, there were seven reports, 17 seven adverse event reports of diabetes, 18 six of which occurred in the Seroquel 19 patients and only one occurred in the 20 placebo patients. And that could have 21 been a matter of chance, but we wanted to 22 investigate whether or not there was a 23 relationship between Seroquel and the 24 emergence of diabetes. And we undertook</p>
<p style="text-align: right;">Page 1036</p> <p>1 Q. Were trials 126 and 127 2 designed to determine if Seroquel can 3 cause hyperglycemia? 4 A. No. 5 Q. Nevertheless, did 6 AstraZeneca collect fasting glucose 7 samples from the patients to monitor the 8 glucose issues? 9 A. Yes. 10 Q. What were the efficacy 11 results of trials 126 and 127? 12 A. Both 126 and 127 were 13 robustly positive showing the decrease in 14 relapse rates to both manic events and 15 depressive events. 16 Q. Has AstraZeneca submitted 17 the results of trials 126 and 127 to the 18 FDA? 19 A. We submitted to the FDA and 20 the indication was approved about two 21 weeks ago. 22 Q. Prior to the submission of 23 the results of 126 and 127 to the FDA, 24 did there come a time when you analyzed</p>	<p style="text-align: right;">Page 1038</p> <p>1 an extensive analysis of all of the data 2 in that trial. 3 Q. Did that extensive 4 reanalysis involve endocrinologists 5 employed by AstraZeneca? 6 A. Yes. 7 Q. Did that reanalysis involve 8 an endocrinologist who is not employed by 9 AstraZeneca? 10 A. After extensive review and 11 discussion internally, we presented the 12 results to an external endocrinologist. 13 Q. And after an external 14 discussion and after getting the results 15 from the endocrinologist, was there a 16 consensus among the SERM team about what 17 the data revealed? 18 A. There was consensus among 19 the clinical team that we took to SERM 20 and we -- the data showed that there was 21 an increase in the -- of about twofold in 22 the rate of emergent hyperglycemia in 23 patients who took Seroquel and a mood 24 stabilizer compared to those that took a</p>