

1 the two subtypes. So, one could ask the question
2 whether or not, even though these patients were, for
3 example, accurately diagnosed and accurately labeled
4 and the prospective analysis included all patients and
5 it was overall positive, when you look at it there's
6 nothing going on in one particular subset. I'm not
7 arguing that position, but I'm saying that one could
8 look at the data in that way.

9 DR. OREN: Do we feel the data for the
10 schizoaffective population is strong enough for such
11 a claim on the basis of what's been presented? I'm
12 not hearing any disagreement on the schizophrenia side
13 of the question. Dr. Hamer.

14 DR. HAMER: Well, looking at that slide
15 which you've kindly flashed a couple of times, with
16 all the effect sizes for all the various subgroups --

17 DR. OREN: Would you mind putting that
18 slide up again, No. 39?

19 (Slide)

20 DR. HAMER: As I look at that pattern of
21 confidence intervals and I see them -- all the point
22 estimates hanging around there on the low side of 1 --
23 it seems to me that if we were going to deny
24 schizoaffective disorder which was a relatively
25 smaller subgroup, then we might want to deny a variety

1 of other of these claims, too -- like whites, it
2 doesn't seem to work too well in whites, or elderly
3 people over 44 -- I guess I'm in that category --

4 (Laughter.)

5 So, I have a hard time singling out
6 schizoaffective disorder and saying, yeah, it doesn't
7 work in that subgroup.

8 DR. OREN: Any other comments on that?

9 (No response.)

10 Okay. We're also asked to talk about
11 expanding -- I'm sorry. Dr. Katz.

12 DR. KATZ: I'm just not sure what the
13 sense of the group is on this question about whether
14 or not schizoaffective ought to be included in any
15 potential indication.

16 DR. OREN: It's sounding to me like there
17 is -- maybe by virtue of silence, so I'll ask people
18 to speak up -- but it's sounding to me like the group
19 is, on the whole, supportive of such -- no? Would it
20 be worth -- should we go around and just invite people
21 to comment? You can pass, as well. Dr. Mehta.

22 DR. MEHTA: I would include both
23 indications as part of the protocol.

24 DR. OREN: Dr. Malone.

25 DR. MALONE: I'm not on the vote --

1 DR. OREN: This is just discussion.

2 DR. MALONE: I don't know. I think it a
3 bit strange to have a disorder indicated for suicide,
4 but it's not already primarily indicated for the main
5 treatment. So, for instance, Clozaril has
6 schizophrenia as an indication, but --

7 DR. LAUGHREN: Can I just clarify, it does
8 not have a broad claim for schizophrenia, it has a
9 claim for treatment-resistant schizophrenia, which is
10 -- you know, it's a fraction of that population. So,
11 we would be moving into both areas, not just into
12 schizoaffective. We'd be moving into suicidality in
13 garden-variety schizophrenics as opposed to treatment-
14 resistant. So, it's really two new populations.

15 DR. MALONE: And this is apart from
16 whether there is evidence to say that it actually does
17 treat suicidality? But apart from that, I don't
18 really see any big problem with including
19 schizoaffective if they were part of the study
20 population. If you think it worked in the study
21 population, I don't think you would take
22 schizoaffective out of the study population.

23 DR. OREN: Do you think it worked in the
24 group?

25 DR. MALONE: Well, see, the way the study

1 was designed, you just have two active comparatives,
2 and I'm still not convinced that just having the two
3 active comparatives shows that the one drug, just
4 because it looks better than the other, is shown to be
5 an effective treatment for suicidality. So, that's
6 why I say if you assume that, I wouldn't have a
7 problem with including schizoaffective.

8 DR. OREN: We're talking prevention rather
9 than treatment.

10 DR. KATZ: Yeah. You know, in some sense,
11 we're doing this backwards because we're trying to
12 figure out in which population the finding has
13 occurred, when we haven't really signed off on the
14 fact that there's a finding in the first place. So,
15 I think part of this we can do sort of backwards.
16 We're trying to figure out who the patients were, that
17 sort of thing, I think you can do that independent of
18 what the results were actually, to some extent, so I
19 think it's probably okay. But I don't think we've yet
20 fully discussed the question about whether or not,
21 with all the potential problems -- blinding and
22 everything else -- the study is really a bona fide
23 positive study.

24 So, I think if we could just figure out
25 which patients a particular claim would include,

1 before we figure out whether the claim is valid yet,
2 is doable. I don't think we're yet at the question of
3 does it work.

4 DR. OREN: Dr. Laughren.

5 DR. LAUGHREN: Let me try and clarify what
6 I think two separate concerns of the committee are.
7 One is when you look at the data for the schizophrenic
8 patients as opposed the schizoaffective patients, you
9 see a somewhat different effect size. This is a common
10 subgroup problem that we deal with all the time. So,
11 I think that's one issue, is how you evaluate those
12 data.

13 But a separate issue the one that Matt
14 brought up, and that is the question of whether or
15 not, in thinking about schizoaffective, the patients
16 in this particular trial were accurately diagnosed.
17 There seems to be an acceptance of the current
18 criteria for schizoaffective illness, the question
19 that seems to be on the table is whether or not, in
20 this particular study, they were accurately captured.

21 DR. OREN: Dr. Wang.

22 DR. WANG: I think in terms of clozapine
23 looking like it's effective in the schizoaffective
24 population -- I mean, the point estimate looks like
25 it's trying to be, and it's probably under-powered.

1 I think my concern would be since we're not seeing
2 data on its treatment of psychosis in that population,
3 maybe some kind of sub-analysis just to show that
4 PANSS scores weren't horrible specifically the
5 schizoaffective population.

6 If the treatment of psychosis was
7 basically the same as it was in the schizophrenia
8 population, that would reassure me because that speaks
9 to this expansion of use not only to treat
10 suicidality, but also psychosis in schizoaffective
11 population.

12 DR. OREN: Does Novartis have any data on
13 that specific question?

14 DR. ZANINELLI: Not at the moment, no.

15 DR. OREN: Okay. Dr. Ortiz.

16 DR. ORTIZ: Do you want us to check in on
17 this? I think Dr. Laughren brought up what my main
18 concern is, that there were not consistent criteria
19 used for the diagnosis of schizoaffective disorder,
20 and on top of that we have international confusion as
21 to what schizoaffective disorder is. So, therefore,
22 I would not be in support of the schizoaffective
23 label.

24 DR. OREN: Ms. Bronstein.

25 MS. BRONSTEIN: I'm going to pass on this.

1 I see it as a diagnostic question, and I don't feel
2 qualified.

3 DR. OREN: Dr. Ryan.

4 DR. RYAN: Sure, I'm near equipoise, but
5 not at it on balance. I'd suggest not including the
6 schizoaffective labeling because of the issues that
7 Dr. Rudorfer brought up and that Dr. Laughren
8 elucidated, that it's substantially likely that a
9 number of those were schizophrenia, and there may have
10 been a very small number of schizoaffective people
11 that it was tested in, making it just hard to get a
12 separate estimate.

13 DR. OREN: Dr. Rudorfer.

14 DR. RUDORFER: Well, I'd just like to
15 emphasize one additional point -- that is, it is very
16 possible, as I understand the current evidence, that
17 a subtype of schizoaffective disorder is closer to
18 mood disorder, specifically to bipolar disorder.

19 Clozaril may or may not have the same
20 effect there as in the subtype of schizoaffective
21 disorder, it's more like schizophrenia. My overall
22 concern is that we simply don't know because we don't
23 have those data, we don't have the subtype analysis.

24 And if I could add one other caveat,
25 throughout we've made references to the fact that

1 suicidality often is, in fact, a component of mood
2 disorder. We heard that we don't have data on whether
3 people had, say, frank depressive episodes in the
4 context of this two-year study, but people were being
5 treated with concurrent medications along the way, so
6 I have a lot of trouble still teasing out a lot of
7 pieces of this puzzle. For instance, could a person
8 that developed a secondary depression along the way,
9 maybe with suicidality as part of that, and they are
10 treated with -- even the Clozaril people, we were
11 told, were often treated with other medications -- and
12 they are treated with something else for that
13 secondary mood disorder, the suicidality improves and
14 they go on and, for all we know, the Clozaril or the
15 Zyprexa had nothing to do with change in the
16 suicidality status. I think there are simply too many
17 variables at play.

18 DR. OREN: Dr. Winoker.

19 DR. WINOKER: We were told this morning,
20 if I recall, that the diagnoses were made using DSM4
21 criteria, and I think the main problem that has us
22 hung up now is the lack of use of structured clinical
23 interview as a basis to obtain data to apply
24 diagnosis.

25 I don't know whether the sponsor has any

1 additional comments that they'd be in a position to
2 make in terms of the extent to which the fidelity of
3 diagnoses based on the quality of clinical information
4 was obtained, that baseline evaluations would support
5 the diagnoses.

6 If we could feel confident based on
7 understanding the relationship between the information
8 from baseline clinical evaluation and the assessment
9 of diagnostic interview, we might be more comfortable
10 coming to the kind of position that you're asking for.

11 DR. OREN: Dr. Krishnan, do you want to
12 address this point?

13 DR. KRISHNAN: Yes, just very briefly. I
14 think Matt's point is could this be bipolar disorder.
15 If it was, then we clearly would have missed it if we
16 had not read through every chart that we had seen. Of
17 the 400-some patients, 577 events, we saw the charts.
18 We reviewed those charts. They are not bipolar
19 disorder.

20 There's another piece of evidence which I
21 think points it out. Look at the AA experience. If
22 it's a bipolar population, would you not expect
23 hypomania (phonetic). That was not an event profile
24 that came up.

25 So, this, from my opinion, is not bipolar

1 disorder. Whether it's schizophrenia and how much you
2 extend it to schizoaffective is another question that
3 I can't answer, but it's not that. If you look at the
4 mood event rate, the depression event rate is
5 different, but not mania, no hypomania. So even if
6 you take this through 8 mood disorder patients, that
7 doesn't again suggest that the majority of this
8 population, or even a significant proportion of this
9 population, is bipolar disorder. I hope that helps.
10 Thank you.

11 DR. RYAN: Were they schizoaffective,
12 though, when you reviewed them?

13 DR. KRISHNAN: In the broad category, yes,
14 mostly schizoaffective depressed. I don't recall
15 except one or two where there was any schizoaffective
16 mania features in it. When you read through the case
17 histories, remember, even if it is not a diagnostic
18 interview -- and I actually think in long-term
19 patients, case histories are more important. In many
20 ways, the psychotic patient coming in trying to get a
21 SCHED interview is not the most reliable thing. What
22 is often more reliable is if you have the full
23 background information to take a look at, and I think
24 that's what we had in this case. Thank you.

25 DR. OREN: Dr. Meltzer.

1 DR. MELTZER: I happen to have the DSM
2 criteria for schizoaffective disorder on my laptop,
3 from a lecture I gave about six months ago, looking at
4 the relationship between the three disorders, and I'll
5 spare you the lecture, unless you want to know my
6 bottom line on it, but it's very interesting to look
7 at the criteria as they really are written.

8 Lead criteria, as Matt said, they have to
9 meet criteria for major depression, mania, or mixed-
10 episode concurrent with the Class A criteria for
11 schizophrenia, namely, delusions, prominent
12 hallucinations, incoherence, and catatonic behavior.

13 Now, the next one is the kicker. The next
14 one says, "Delusions or hallucinations for two weeks,
15 without prominent mood symptoms". And this is what
16 nobody pays attention to. So, I'd be very surprised
17 if that were in the thinking that led to the clinical
18 diagnoses.

19 What is prominent is the next criterion --
20 "Mood symptoms prominent for substantial period of
21 time psychosis is present". That is what the
22 clinician operations on. That is the operational
23 definition for him. When they see the Criteria A for
24 schizophrenia and mood symptoms are prominent, they
25 call them schizoaffective. And because of the link

1 that I showed you between depression ratings and
2 suicidality, a lot of the very people that are going
3 to have the kind of histories that went into this are
4 going to be diagnosed by the community psychiatrist --
5 not your GPs -- as schizoaffective, and I think you
6 need to take that into consideration when you make
7 your final decision. I mean, I'd have to say it's
8 probably true that, according to DSM4 criteria, that
9 independent period of psychosis with no mood symptoms,
10 we can't really say that there was that prominent a
11 group of DSM4 schizoaffectives.

12 What the world, on an operational basis,
13 calls schizoaffective disorder, they were studied, and
14 they showed a differential effect of the two drugs.

15 DR. OREN: Dr. Winoker, do you want to add
16 anything else?

17 DR. WINOKER: Those were helpful, but I'm
18 not sure I got an exact response to my question, which
19 was, in the absence of using a structured clinical
20 interview, were other steps taken to verify the
21 diagnosis, for example, by reviewing the initial
22 clinical history and seeing that there was an
23 appropriate support for the diagnosis through the
24 specific intake history that was obtained.

25 DR. COX: There was a diagnostic worksheet

1 which was basically a checklist straight out of DSM
2 that they had to check off, but there was not formal
3 interview, but they did have to check off and the PI
4 had to sign off on the diagnosis using the checklist,
5 and it was basically just DSM4 criteria.

6 DR. WINOKER: So the checklist was geared
7 to identifying the presence of symptoms that led them
8 to establishing the diagnosis?

9 DR. COX: That's correct.

10 DR. OREN: Dr. Hamer.

11 DR. HAMER: The lack of a structured
12 clinical interview doesn't bother me very much. Rarely
13 have I seen my colleagues use structured clinical
14 interviews in their ordinary day-to-day clinical
15 practice. So, the people who are going to be using
16 this medication in their patients won't, by and large,
17 be making diagnoses with structured clinical
18 interviews.

19 Except for my continued discomfort with
20 the blinding issue, I'm comfortable in the claim for
21 the schizophrenia and schizoaffective disorder for
22 suicidality, generally.

23 DR. OREN: I'm curious whether your
24 discomfort is outweighed by your support for the
25 claim, or not?

1 DR. HAMER: You know, I don't know. I
2 honestly believe -- and I've come to this belief
3 during the course of this meeting as opposed to based
4 on the material in the briefing books that I read
5 beforehand.

6 I've increasingly come to believe that it
7 would have been possible to have designed this as a
8 virtually double-blind trial where the only people who
9 were unblinded was the psychiatrist who actually
10 prescribed the medication, that some psychiatrist had
11 to know what the medication was the patient was on,
12 and the technician in the lab who either stuck or
13 didn't stick the patient with the needle, that
14 everyone else in the entire study could have been
15 blinded, the patient goes into the lab, either gets
16 stuck or doesn't get stuck, and then the patient just
17 has to get told "Tell your doctor whether you got
18 stuck or not".

19 So, the fact that this wasn't designed
20 this way weakens the strength of the evidence,
21 although it's hard to see how it could have introduced
22 the systematic bias, but then again we usually like
23 blinding whether we can see how lack of it would
24 introduce a systematic bias anyway. So, that's my
25 discomfort.

1 My discomfort is more based on the regret
2 that this study was not designed in a much more
3 blinded manner.

4 DR. OREN: Dr. Wang, do you want to
5 comment?

6 DR. WANG: Yes, just on the
7 schizoaffective issue. Again, it would be nice if
8 there were some reassuring data just either from
9 InterSePT or another RCT, just to suggest that
10 clozapine is effective for psychosis in
11 schizoaffective disorder because the last thing you
12 want to be doing is treating someone's suicidality and
13 then potentially give them an ineffective
14 antipsychotic. If there is that data -- and maybe
15 there is -- then I would feel comfortable expanding
16 the indication to also then include suicidality.

17 DR. MELTZER: There are those data,
18 published data, from a paper by Joe Calabrese and
19 myself, of treatment-resistant bipolar disorder and
20 schizoaffective disorder, structured interviews, DSM3
21 or 4 criteria -- I'm not quite sure, probably 4 -- and
22 the drug is more effective in bipolar disorder --
23 strikingly effective in these treatment-resistant
24 disorders -- but it was also effective in the
25 schizoaffective disorders. That's in treatment-

1 resistant schizoaffective, and I've analyzed my own
2 data on schizoaffective versus schizophrenia, and in
3 that population the effect on psychosis and mood
4 symptoms is greater in schizoaffective disorder than
5 schizophrenia. That's also published.

6 DR. OREN: Dr. Cook.

7 DR. COOK: I also have concerns about the
8 blinding, but on the question of schizophrenia or
9 schizoaffective, I'm very much in the middle, slightly
10 to it's okay. It's almost as much an abstention as
11 anything.

12 DR. OREN: Personally, I think the
13 schizoaffective disorder is a second level of leaping.
14 I think claims need to mean something, and certainly
15 I think it's much stronger, the claim focusing on
16 suicidality in schizophrenia, and I would be quite
17 comfortable with that claim. To go beyond it, I'm
18 glad it's on somebody else's shoulders to make that
19 additional decision.

20 Let's move on. On the subject of leaping,
21 as has been brought up, one aspect of this is
22 expansion of the Clozaril beyond treatment-resistant
23 schizophrenia, specifically to schizophrenia in
24 general, and perhaps beyond that. How do -- do people
25 want to offer any comments just in general on the

1 expansion of the claim? Dr. Wang?

2 DR. WANG: It seems like there's two ways
3 you could expand it. One is to expand it to all
4 patients who are at high-risk of suicidality,
5 regardless of whether they're treatment-resistant or
6 not. And then a second way to expand it is just to
7 patients who are treatment-sensitive, whether or not
8 they're at high risk for suicide. I mean, there are
9 two sort of separate ways to expand it. The first
10 depends on what the --

11 DR. RYAN: My apologies. I didn't
12 understand the second point at all.

13 DR. WANG: You could also expand it just
14 to treatment-sensitive patients, capture everybody.
15 In other words, not designate necessarily for high
16 risk. And there's a reason why I'm bringing this up.
17 The first one, if you remember what I said, it seems
18 supported by at least the back-of-the-envelop
19 calculation that Dr. Kane showed where if you sort of
20 weigh the risks and the benefits of potentially
21 expanding into this high-risk population of treatment-
22 sensitive and treatment-resistant, it looks like it's
23 in favor, maybe an order of magnitude in favor, of
24 clozapine. In other words, the risks that you add for
25 agranulocytosis are relatively minimal, and same for

1 cardiomyopathy.

2 The second question is much trickier.
3 It's not an obvious win for the sponsor. It would
4 take a decision analysis of some sort. The reason why
5 I'm raising this is because it's hard to identify
6 patients at high risk for suicidality. And so in the
7 real world, the real practicing clinician, it's going
8 to be a mixture of the two. They will not necessarily
9 be able to identify their patients who are at high
10 risk for suicide both because there are very few
11 predictors -- even from the InterSePT study, there are
12 only two significant ones -- and the relationship is
13 so weak -- again, from the InterSePT trial, the point
14 estimates for the other co-variates -- even for prior
15 attempts, it was about a 3 percent increase per
16 attempt. So, in reality, the clinician in the real
17 world will end up having to apply clozapine to a
18 larger than just high-risk population. So, that's why
19 I'm raising these two potential scenarios as ways to
20 expand the indication. I hope I didn't lose everyone
21 there.

22 DR. OREN: Dr. Ryan.

23 DR. RYAN: I'll try. I think I understand
24 what you're saying, but I'm not sure, so let me go
25 through it again and see if I can repeat it, or at

1 least explain my confusion.

2 You could, in theory, say apply the
3 algorithm that was applied in this study to select
4 your patients. Given that, you prevent somebody's
5 suicide attempt on an 87 per 1,000, by treating with
6 the Clozaril rather than a different compound -- and
7 we'll talk later which different compounds.

8 Obviously, you could say that one could
9 neither apply that reliably, or people will generalize
10 too much and sprinkle it higgely-piggely on people,
11 but it seems like they gave a number in here which is
12 fair enough -- you know, it's your best estimate so
13 far, 87 per 1,000 people that you treat with Clozaril
14 rather than something else, but prevent one or moire
15 suicide attempts, and they gave some dollar value to
16 be imputed value of preventing a suicide attempt.

17 DR. WANG: Just to clarify, in this
18 material, the question that was put to us is could you
19 expand the indication to treatment-sensitive and
20 treatment-resistant patients who are at high risk for
21 suicide, and that's what I was calling point one, the
22 scenario one. And to answer that question exactly as
23 Dr. Kane did, you weigh the risks versus the benefits.
24 And at least if you do that back-of-the-envelop
25 calculation, which didn't take into account

1 potentially greater efficacy of clozapine, that sort
2 of thing, it looks like a pretty clear win for
3 clozapine.

4 I'm just saying there's another way in
5 which the indication might, in the real world, de
6 facto, get expanded, and that is you may not be able
7 to target patients who are at high risk for suicide,
8 you may end up having it be given to a broader
9 population that is essentially a treatment-sensitive
10 and treatment-resistant population maybe not
11 necessarily at high risk for suicide.

12 DR. COOK: In your logic, the one thing
13 that -- I wasn't worried about the second -- is the
14 fact that there's not a correlation -- there aren't
15 predictors -- may have been because they were good at
16 selecting the specific groups. They didn't study the
17 larger group you're talking about, and I think it
18 would be important in labeling to make that clear,
19 what the trial was about. It wasn't the overall
20 population -- that's your concern -- is to highlight
21 for people that this was a selected group of patients.

22 DR. OREN: Dr. Katz.

23 DR. KATZ: We asked the question in a
24 certain way, but I think it is fair to ask whether or
25 not the claim that we are contemplating is in any

1 sense practical. We can always fashion a claim that
2 conforms point-by-point to the study that was done,
3 but if it turns out that that's clinically meaningless
4 or misleading or along those lines, we'd like to hear
5 it. I don't know if people think it is, but that
6 would be an important thing for people to talk about.

7 DR. OREN: Dr. Winoker.

8 DR. WINOKER: This study was conducted
9 with a majority of patients who were viewed as -- who
10 were entered because of suicidal behavior that got
11 them in, the majority of whom were not treatment-
12 refractory, so the data that we're looking at was
13 based to a large extent on people that from a clinical
14 perspective showed suicidal behavior at risk, but
15 didn't fit into the treatment-refractory subset. If,
16 at the end of the day, we end up as a group feeling
17 convinced by the data for differential significant
18 beneficial effects for Clozaril for suicidal behavior
19 potential in this population, I think that logically
20 extends the indication beyond the treatment-refractory
21 group because we don't currently have specific
22 treatments to recommend, and we have apparently a
23 situation where a comparative antipsychotic drug that
24 was effective in general for symptoms of psychosis
25 showed less beneficial effects for suicidal behavior

1 specifically.

2 DR. OREN: Dr. Katz, could you clarify
3 what kind of a label or what kind of a claim might be
4 made that would be impractical?

5 DR. KATZ: Well, for example, we defined -
6 - the protocol defined treatment, you know, high risk
7 for suicide in a certain operational way, and these
8 patients presumably met those criteria. But if it
9 turns out, as Dr. Wang points out, that that's a
10 diagnosis that, for all intents and purposes, can't be
11 made practically on a clinical basis by the average
12 practicing psychiatrist, that would put us in a tough
13 spot, but we'd like to know. If that really is true,
14 we'd like to know. I'm certainly not saying it is
15 true, but it's been brought up, and it's not an
16 unreasonable point to raise.

17 DR. MELTZER: Can I please speak to that
18 issue because there really is enormous literature on
19 that. I've reviewed it a number of times, contributed
20 to it, and it's really in high agreement, enormous
21 agreement, the risk factors for suicide and
22 schizophrenia. And the proof of it is that how many
23 events we had in this study. We used those criteria
24 to design this study, and the No. 1 criteria is having
25 made a previous suicide attempt. That probably

1 accounts for 50 percent of the variants.

2 Then you get into substance abuse -- male,
3 first decade of illness, family history of suicide,
4 depression, hopelessness -- what isn't a predictor is
5 control of positive symptoms, which is why the other
6 extension that you postulated would not be in the
7 patient's best interest at all.

8 So, is it possible for the average
9 clinician? Absolutely, to determine who is at high
10 risk. Now, can they miss a lot of people?
11 Absolutely, the people who -- and a good example is,
12 in fact, what happens in the FDA database where low
13 risk of suicide is supposedly one of the criteria for
14 entry into the study, yet in the literature that was
15 reviewed by the FDA and by Kahn, the rate of suicide
16 in that group was no less than what is average for the
17 population. So, you can't very well rule out or
18 identify the low-risk patient, but you can certainly
19 identify the high-risk patient, which is what the
20 basis of the claim is.

21 DR. OREN: Dr. Malone.

22 DR. MALONE: You know, I think if you look
23 at the number of patients screened for the study
24 overall versus the number enrolled, a very high
25 percent -- 80 or 90 percent of the people screened

1 were enrolled in the study -- so I guess when you're
2 screening, you're trying to rule out people who don't
3 meet your protocol. So, if that high of a rate of
4 screening to enroll occurred, I would think a similar
5 rate would look -- you would see a similar rate when
6 you had a commission that's trying to judge whether
7 this patient indeed meets criteria for anything you
8 write, especially if you're writing something about at
9 high risk for suicide.

10 DR. OREN: Dr. Laughren.

11 DR. LAUGHREN: I think the company can
12 probably speak to that. The question is what was the
13 source of patients referred for screening. I'm
14 assuming it was not just a random sample of the
15 population of patients.

16 DR. KANE: I would make two points. The
17 fact that the screening rate was so high means that
18 the subject were prescreened, and clearly there are
19 such patients out there, which is one of the things
20 we've been emphasizing, and the sites were able to
21 identify them reasonably well. But these were not
22 just random patients taken from clinics or hospitals,
23 these are patients who were identified as potentially
24 eligible for the study by the clinicians who knew
25 them.

1 DR. ZANINELLI: Just to emphasize that
2 point, remember that the design phase before the study
3 start was about a year, and potential sites were
4 lining up patients for the study start. So these were
5 preselected, as Dr. Kane said.

6 DR. OREN: Dr. Malone.

7 DR. MALONE: Just a comment. When we do
8 a study in aggression, we prescreen everybody for them
9 to come in because we don't want to go through a whole
10 interview. And only people in the study are
11 prescreening, yet our enrollment rate based on just
12 them meeting the criteria for the study still falls
13 around 50 percent after a first screening that we've
14 done before we bring them in for more detailed
15 screening.

16 DR. KANE: John Kane, Zucker Hillside
17 Hospital. You have to keep in mind that this was
18 events that in many ways affected this trial. We took
19 patients who were substance abusers. We took patients
20 who had co-morbid conditions. We took patients who
21 required concomitant medication. The average clinical
22 trial is much more exclusive and, in fact, excludes
23 people with risk of suicide. So, I think that,
24 coupled with the fact that, as Dr. Zaninelli said,
25 there was a lot of advanced warning, people were eager

1 to participate with the anxiety that I mentioned, but
2 they certainly felt that this was an important
3 opportunity, and they had many patients that they felt
4 would be eligible.

5 DR. OREN: Dr. Malone.

6 DR. MALONE: Just to followup, usually
7 when we're excluding people out, it's only because
8 they don't meet symptom criteria, not because they
9 have other exclusionary diagnoses. So, usually they,
10 on the phone, seem to meet a certain criteria for
11 aggression to get in the study, but when you bring
12 them in, it's really the aggression criteria they
13 don't meet -- the specific symptoms, not that they're
14 excluded for other reasons.

15 DR. OREN: Do you have a direct answer --

16 DR. COX: I don't have a direct answer to
17 that question, but I just wanted to add, one of the
18 reasons that the enrollment rate was so high is that
19 we responded with a randomization number within 30
20 minutes of the site's request because we considered
21 these patients to be in a critical state, or
22 potentially. So, there was only a 30-minute time
23 period. So these patients were generally screened and
24 randomized in a very short period of time. So there
25 wasn't a lot of time for patients to change their

1 mind.

2 DR. OREN: Other comments from the Panel
3 specifically on expansion beyond the claim for
4 treatment-resistant schizophrenia? Dr. Laughren.

5 DR. LAUGHREN: Can I raise sort of a
6 related question to expansion of the claim? My
7 question has to do with once a patient is designated
8 as a high-risk patient -- perhaps a treatment-
9 sensitive patient, but a high-risk patient for suicide
10 -- how long does that status prevail? My question is,
11 supposing you have such a patient, you treat them with
12 Clozaril, they are improved, they are stable for some
13 number of years. Do they stay on Clozaril forever, or
14 is there some point at which -- again, this is a
15 patient who is not treatment-resistant, they are just
16 high-risk -- is there some point at which they revert
17 to a non-high risk status and can go back on something
18 else, or once that decision is made are they on
19 Clozaril for life?

20 DR. MELTZER: That's a terrific question,
21 and there are no hard data to answer it. I can give
22 you a number of anecdotes that the answer for some
23 people is for life. I have seen people have a
24 phenomenal response to Clozaril in terms of people
25 with multiple suicide attempts, and go into long

1 periods of remission that no one ever expected they
2 would on Clozaril. Clozaril is stopped for one reason
3 or another, and the suicidality comes right back.

4 Now, I can also imagine -- and that's
5 anecdotal data, but I can share them with you if you
6 want -- but I can also imagine that there are certain
7 constructs here that are relevant, like the issue of
8 hopelessness which stems from social and work function
9 -- that is, people really work out some of the
10 fundamental problems they've had. And we heard from
11 the NAMI person who spoke, there really are a number
12 of major recoveries, that as people recover, some of
13 them, the urge to take their lives might diminish
14 sufficiently, they could be transferred to some other
15 medication. But those are going to be some real
16 problems out there. There's no real simple answer.
17 So, it might well be -- I mean, I'm speaking now as a
18 clinician, I would be very loathe to take somebody of
19 the kind that I just mentioned to you, with recurrent
20 suicidality, got on clozapine, did well, and never
21 recommended they stop it because there was something
22 else that seemed to appeal to them for some other
23 reason.

24 DR. KANE: John Kane, Zucker Hillside
25 Hospital. If I could add to that, the database that's

1 most informative in that regard is the Walker
2 database, where the three groups that were examined
3 included patients who had been on clozapine and
4 patients who came off clozapine. So, that would
5 suggest that discontinuing clozapine in a high-risk
6 population does increase the risk of suicidal
7 behavior.

8 DR. OREN: Anything else on this?

9 (No response.)

10 Just a little bit off the top, but we've
11 been focusing on clozapine, but the study obviously
12 studied olanzapine, and we've been asked to make some
13 comments on the interpretation of the InterSePT study
14 with regard to olanzapine. I think, Dr. Malone, you
15 made a comment about that before. I don't know if you
16 want to say anymore.

17 DR. MALONE: No. I think I said that it
18 looked like Clozaril worked better than olanzapine in
19 the study, but I don't know that you can say anything
20 else.

21 DR. OREN: Dr. Katz.

22 DR. KATZ: At this point, I think I would
23 sort of argue that we ought to attack the primary
24 question because before we start getting into how
25 we're going to describe it in relation to olanzapine,

1 I think we really have to figure out whether or not we
2 think this trial, as conducted, with the results that
3 we've seen, can actually be considered sufficient for
4 approval. And I think when we address that -- when
5 you address that question, I think we also really do
6 have to finally take on the question of whether or not
7 a single perspective control trial meets the current
8 criteria for approval on the basis of a single trial
9 and what's called confirmatory evidence. There's no
10 real -- I mean, just to give you a context for that,
11 as Tom pointed out, in '97 the law was changed to say
12 that that can be a standard for substantial evidence
13 of effectiveness -- single trial and confirmatory
14 evidence. But Congress, in its wisdom, didn't see fit
15 to define when that standard ought to be applied, or
16 what confirmatory evidence means.

17 The Agency has constructed a guidance or
18 a document which talks about the circumstances in
19 which a single trial and confirmatory evidence might
20 be acceptable, and Tom pointed out some of that in his
21 opening remarks. It's typically a case where --
22 although there's nothing hard and fast -- but,
23 typically, it's a case where the study shows an effect
24 on mortality or some irreversible morbidity and really
25 can't be repeated on ethical grounds. Typically, such

1 a study would show, as Tom pointed out, internal
2 replication across individual sites, or show, in
3 effect, in multiple different subgroups, severe
4 patients, mild patients, moderate patients. It might
5 have a very low p-value, suggesting that it wasn't
6 positive by chance alone, it was very unlikely -- more
7 unlikely than the typical standard we ordinarily apply
8 -- to be positive by chance alone.

9 So, those are sorts of the types of things
10 that we would consider, or typically a thought that
11 would apply in this case. So, I think the committee
12 has to think about whether or not a single trial of
13 this sort that we have in front of us, where there are
14 questions about blinding, about the outcome, about the
15 robustness of the finding -- the overall p-value is
16 .031, I think, or .03 -- so when that's all put
17 together, does that constitute the sort of evidence to
18 which we can apply the one study plus confirmatory
19 evidence standard. I'll stop there.

20 DR. OREN: The question is, does this one
21 study show something -- we haven't necessarily agreed
22 what that something is, but putting that aside, what
23 do people think, does the study show something
24 sufficient that the FDA can stand on in approving a
25 claim? Dr. Malone.

1 DR. MALONE: As I understand it, it's one
2 well-controlled study and, to me, if you have a lot of
3 questions about a study, you might argue that it's not
4 a well-controlled, or that there's some problem with
5 it, and that you wouldn't want to go on the basis of
6 that one study.

7 There is some confirmatory evidence, but
8 I think you would still want the one study to be
9 fairly strong, irregardless of the confirmatory
10 evidence. I really have a lot of doubts about this
11 study both from the blinding, the design of only
12 having two active components, to think that it
13 definitely shows that it has an effect on suicide,
14 apart from showing that Clozaril is better than
15 olanzapine for this indication.

16 DR. OREN: Dr. Katz.

17 DR. KATZ: I just want to sort of -- you
18 seem to conclude that it shows that it's superior to
19 olanzapine. Are your questions related to the fact
20 that the unblinded nature of the data accrual make you
21 question the reliability of that difference, and the
22 fact that you're not sure whether or not Zyprexa
23 patients -- I'm trying to understand your reasoning,
24 it's very important to us.

25 DR. MALONE: I think it's everything put

1 together, that if you wanted to have confirmatory data
2 and one well-controlled study, you'd want that study
3 to be fairly definitive. And I think with questions
4 about blinding and still in my mind with questions
5 about not having a no-treatment group or -- I don't
6 know how you would do that, maybe a community-control
7 -- but without having that in the study, it's not a
8 strong enough study to stand on its own as one single
9 study. I'm not sure if I answered it.

10 DR. OREN: Dr. Ryan.

11 DR. RYAN: I think I come down in a
12 somewhat different position, so let me sort of be
13 long-winded about it. It seems like that the FDA and
14 industry together made a plan for the study which was
15 substantially carried out as planned, that there's a
16 lot of decisions that went into a complex and ground-
17 breaking study like this that one could make second-
18 guesses on but none that I'm strongly urged to make a
19 bad second-guess on, and certainly none of the
20 decisions where you say, "Well, they snuck one over",
21 and they weighed it in a way that's really going to be
22 helpful to them. I mean, you know, the question of
23 which blind rater to use, I would have made the
24 decision the same way. I was personally convinced by
25 the evidence that that was much better than a whole

1 bunch of separate blind psychiatrists.

2 The question of whether you could have
3 really done it blind or not is an interesting
4 question, you know, that people with more expertise in
5 schizophrenia than I have suggested would be very hard
6 to do blind. Perhaps we can say we do have a blind,
7 but they seem to make a substantial argument that way.

8 So, I individually, separately, would say
9 that this study was positive and done well and what
10 they'd agreed to. And so for me, separately, the only
11 one you're left with is the p-value that is certainly,
12 you know, 1 chance in 33, so it's under the 1 chance
13 in 20 that we arbitrarily say is significant, and yet
14 not a .001 or something, not the numbing homerun
15 that's separate, positively each separate site, and so
16 then you're left with a very solid p-value, but not a
17 .001. You may never be able to pat over a study so
18 you get a .001 with a base rate on the phenomena here.
19 And the separate question of how strong the other
20 evidence is.

21 I actually would weigh on the whole
22 enchilada of saying that the other evidence with one
23 study, in my understanding of what you're saying, is
24 enough, but certainly separately it seemed to be a
25 well-designed, well carried out study where we could

1 make second-guesses, but not certainly ones that
2 disturb me a bit.

3 DR. OREN: Dr. Cook.

4 DR. COOK: I realize there are problems
5 with the Walker study, but this seemed to have been
6 designed as a replication of a relatively solid piece
7 of epidemiological work, so I do think the
8 confirmatory evidence is not only there, but it
9 preceded. And I sort of go along with what Neal is
10 saying, essentially a shot was called. It was a
11 reasonable shot, there was consultation with you,
12 decision seemed reasonable, and that's the best you
13 can do. There's clearly not a "well, the original
14 call was negative, so we went back and found something
15 that was positive" sort of thing.

16 DR. OREN: Dr. Winoker.

17 DR. WINOKER: I'm also of the mind to
18 think that the previous "confirmatory" data is
19 significant so that a study that we judge to be
20 supportive would not be convincing here. Again, I'm
21 mindful that this is a both very clinically important
22 and challenging problem and a very difficult one to
23 design and conduct a clinical trial in this era of
24 increasing challenge, with all of the concern about
25 protection of human subjects. I think that's just the

1 constantly evolving factor to address important
2 clinical problems.

3 The main issue that I can see or
4 understand -- and maybe some of our colleagues can
5 sort of expand on this, or present some different
6 perspectives in terms of the lack of blinding, which
7 certainly make us all feel more comfortable -- relates
8 to the question of under-referral of the Type 1 events
9 in the subjects on Clozaril, and while I don't think
10 we can have absolutely satisfactory clarification of
11 that, I found myself reasonably persuaded that pretty
12 legitimate efforts to investigate that and look
13 systematically at sources of under-referral did not
14 really support that. So I found myself being
15 reasonably comforted or assured against the concerns
16 about the lack of blinding and otherwise feeling
17 persuaded that the data favoring Clozaril for suicidal
18 behaviors, which I think are tangible and clinically
19 meaningful events -- and, again, in the face of the
20 overall evidence that olanzapine was producing
21 clinically significant effects along other sort of
22 standard criteria, plus I didn't see any evidence that
23 that population was being undertreated, there was the
24 question about whether they were almost on excessive
25 adjunctive treatments, but they were certainly getting

1 aggressive treatment apparently to manage their
2 clinical situation. So, I came out on the side of
3 being persuaded by the evidence.

4 DR. OREN: Dr. Rudorfer.

5 DR. RUDORFER: I'm afraid I'm going to
6 have to stay up the negative terrain. I was, on the
7 whole, disappointed by this study. Aside from the
8 blinding issue -- which, again, I think that if this
9 were to be the single definitive trial, I think that
10 should be a requirement. I find the concomitant
11 medication treatment overwhelmingly troubling -- that
12 is, we are not even able to see a subset of this
13 population comparing the two active treatments head-
14 to-head. We see comparisons of clozapine plus some
15 other things versus Zyprexa plus a lot of other
16 things, and those other things may have been
17 beneficial, they may have been detrimental, I'm not
18 sure we've fully resolved the dosing issue. It seemed
19 that the clinicians in the Zyprexa group were forced
20 to go beyond the protocol -- and I'm not sure that
21 they all did. I mean, we saw -- we actually have the
22 data on the patient deaths and, as I read the case
23 reports, all of the patients in the Zyprexa group who
24 died received no more than 20 mg a day of Zyprexa, so
25 I'm concerned there that clinicians -- some clinicians

1 may have been reluctant to exceed that. And, again,
2 the bottom line for me is that I would like to see,
3 even in a subset of patients, a head-to-head
4 comparison because I think that's what the study
5 purports to be. So, I'm afraid I just don't find this
6 evidence persuasive.

7 DR. OREN: Anyone else want to comment?
8 Dr. Ortiz.

9 DR. ORTIZ: I guess since this is kind of
10 a check-in, I think the way Dr. Winoker put it in
11 terms of -- I think I am persuaded that suicidal
12 behaviors were decreased and suicide was prevented in
13 the study. I think I'm not as concerned about the
14 blindedness because of the incredible co-morbidity and
15 complicatedness of these patients, and I suppose a
16 study could be designed that is able to do that, but
17 I'm not sure about the safety and ethics of doing
18 something like that.

19 I am still a little concerned about the
20 implications from -- though I think Dr. Hamer has
21 suggested that we've already got indications for
22 symptoms in other medications, so suicidality isn't
23 adding anything new in this -- though, for me, the
24 concern is it's more -- it's associated with mood
25 disorder. And then the treatment-resistance, I guess

1 that doesn't bother me as much as schizoaffective,
2 which I'm still not convinced is well substantiated.
3 But I guess just the question of suicidality in this
4 particular population or this study, for me, the data
5 is persuasive.

6 DR. OREN: On the specific subject of is
7 a single randomized trial good enough, I keep getting
8 pulled in each direction. One of the points I'm still
9 wrestling with -- I don't know if the company has any
10 thoughts on it -- the baseline level of suicide
11 attempts or suicidality in the Clozaril group was
12 higher than in the Zyprexa group -- I think it was
13 about 3.7 incidence in each of those categories for
14 the Clozaril group, and about 3.2 in the Zyprexa
15 group. Could any of what we are seeing with the
16 relative efficacy of Clozaril be a regression to the
17 mean? If there were two studies up, I wouldn't be
18 asking that question.

19 DR. RYAN: I was just mumbling that they
20 didn't include that in the thing, so wouldn't that
21 work against them rather than for them?

22 DR. OREN: If they were a sicker group, it
23 would work against them. If just by the way time
24 captured they, they were a totally equivalent group,
25 that might work to their advantage.

1 DR. RYAN: How?

2 DR. OREN: By virtue that at the end of
3 the study there would be a greater likelihood that all
4 would have had a similar total number. If both drugs
5 had no effect by the end of the study period, it's
6 possible that the levels would have been the same in
7 both groups, even if statistically one happened to be
8 higher than the other at the beginning. Dr.
9 Zaninelli.

10 DR. ZANINELLI: Just to remind the
11 committee, this was a time-to-event, not a change-
12 from-baseline analysis, so regression to the mean I
13 don't think would apply here.

14 Also, looking at the difference in the
15 mean number of lifetime suicides, lifetime
16 hospitalizations to prevent suicide was at baseline.
17 There wasn't statistical difference.

18 While I'm up here, I'd also like to
19 address Dr. Wang's question regarding the
20 psychopathology of the schizoaffective and
21 schizophrenic subgroups. We've done the analysis in
22 the mean time. Do we have a slide right now? That
23 was quick.

24 (Slide)

25 We've shown in the overview slide

1 regarding the total score on the PANSS, it was about
2 85 overall. Actually, in the schizoaffective group it
3 was about 81, in the schizophrenic closer to 85. The
4 mean change from baseline was 20 and 21 points for
5 schizoaffective disorder and Clozaril and Zyprexa,
6 respectively, and 20 to 21 points in the schizophrenic
7 group. So about the same baseline PANSS score in
8 schizoaffective and schizophrenic patients, and pretty
9 much the same change from baseline at endpoint. And
10 that difference isn't statistically significant, less
11 than .001.

12 Showing a comparable efficacy with respect
13 to changes in psychopathology, as introduced by the
14 PANSS.

15 (Slide)

16 Okay. Repeating what I said. Again,
17 these are schizophrenic and schizoaffective patients
18 in each subgroup -- schizophrenic patients, mean
19 baseline PANSS total score, a little bit higher in the
20 schizophrenic group, but the change from baseline
21 around 20 in all four subgroups -- again, highly
22 significantly different from baseline.

23 DR. OREN: Dr. Katz.

24 DR. KATZ: I would just say that it's an
25 active control trial that doesn't show a difference

1 between treatments, it's hard to interpret that. I
2 don't know if it's a critical point here, but I don't
3 know what to make of it.

4 DR. OREN: So, again, is one study, or is
5 this one study good enough to show what we need to
6 show. Dr. Hamer?

7 DR. HAMER: I'm curious, does the sponsor
8 have any other clinical trials of suicidality
9 underway?

10 DR. ZANINELLI: No.

11 DR. OREN: Dr. Hamer, could I ask you to
12 comment on whether the single trial you think would be
13 adequate to support some kind of a claim?

14 DR. HAMER: I'm going to equivocate. If
15 this were a blinded trial, I'd be really happy with
16 it.

17 DR. OREN: Dr. Wang, do you want to
18 comment on this?

19 DR. WANG: It puts a lot of pressure to
20 make sure that the -- particularly the EPI -- the ERI
21 study is methodologically rigorous, which it has its
22 limits. And the overall much larger effect in the
23 observational study suggests that there is some bias
24 to it, but how much of it is potentially bias and how
25 much of it is real effect is hard to say.

1 DR. OREN: Dr. Katz.

2 DR. KATZ: Do you want to take a view on
3 whether or not the dataset, as it is, supports
4 approval with the one study and confirmatory evidence
5 standard?

6 DR. WANG: Okay, I'll take a stand. Given
7 it's an epidemiologic study -- I'm talking about the
8 ERI study now, and just focusing on, okay, you have
9 one trial, you also have some observational EPI data,
10 how good is that EPI data, and its okay, it has its
11 limits. So I'll say as far as using non-RCD data,
12 it's got its problems, but it's about probably the
13 best you're going to do.

14 DR. KATZ: But that's only half the
15 standard, that's the confirmatory evidence standard.
16 The other part of the standard is whether or not the
17 one trial that we have is robust enough to, in
18 conjunction with the EPI study, make an approvable
19 package.

20 DR. WANG: To some extent, the
21 implications -- I'll give you an answer. To some
22 extent, the question is -- we're being asked should
23 the indication be enlarged because that will hinge on
24 what our answer is to this. And in a sense, we're
25 being asked to do a quick decision analysis in our

1 head and say, okay, what happens if this -- I mean,
2 it's a much larger question.

3 I ultimately, doing my quick one in my
4 head -- you know, quick decision analysis -- think
5 that even if InterSePT is wrong, and let's say it's
6 completely biased and this benefit we're seeing is
7 just way off the mark and there's no benefit at all.
8 I've been swayed by the kind of comments that Dr.
9 Goldman was saying earlier, that in the face of a
10 whole bunch of decreasing risks, potentially greater
11 benefits such as the MED analysis, even if we're
12 completely wrong, the expansion may not be that awful
13 a thing. So, ultimately, I'm a little bit less
14 perturbed by whether there's a chance that this is
15 biased, a little bit less than I would be in another
16 situation. So, it meets my standard, if that's --

17 DR. KATZ: I guess the question is whether
18 it meets our standard.

19 (Laughter.)

20 Let me try and parse it out because it
21 really is important for us to understand the thinking
22 of all the committee members. Forget the standard,
23 the one study plus confirmatory -- just put that --
24 let's not talk about that, but let's just talk about
25 the study, the InterSePT study, and whether or not you

1 think it's a robustly positive study, with all its
2 warts. Let me just ask you that simple -- well, it's
3 not a simple question -- but that single question.

4 DR. WANG: It's not robustly positive, for
5 all the reasons we've been talking about, but it is --
6 it's robust in the sense that there's so little -- if
7 it's real, if it's not completely explainable by bias,
8 then this is robust because there's so little to
9 actually treat suicidality, and the effect size was
10 actually impressive, you know, when you do the
11 calculation. I saw your calculation. It's actually
12 very impressive from a public health point of view.
13 So, it has warts. It isn't maybe robust, in my
14 typical use of the word robust, but maybe it's robust
15 enough.

16 DR. OREN: Dr. Hamer.

17 DR. HAMER: I want to rephrase my vote.
18 Assuming that the blinding issue does not bother the
19 FDA, then I think this study had an impressive effect
20 size, and I think the cumulative weight of the
21 epidemiological studies that are out there paired with
22 this are persuasive.

23 DR. KATZ: We're not going to get you to
24 say whether or not the blinding upsets you very much,
25 are we?

1 DR. HAMER: No, not at all.

2 (Laughter.)

3 DR. OREN: Jean Bronstein, you haven't
4 commented recently.

5 MS. BRONSTEIN: I don't feel statistically
6 up to the group here, but I really do think that the
7 study has offered us something for this population
8 that we really need to consider, and it may not be
9 perfect, but I think my vote goes to offering this for
10 the psychotic population.

11 DR. OREN: Has everyone addressed this
12 specific question? Dr. Cook, did you?

13 DR. ORTIZ: Yes, I did.

14 DR. OREN: Okay. I think since the drug
15 is already out on the market, the questions that arise
16 are different perhaps than introducing something
17 entirely new to the market. In that context, I think
18 a single trial like this is good enough to support a
19 claim focusing on suicidality, at least the
20 schizophrenia. Do you want us to talk about --

21 DR. KATZ: I'm just wondering why the fact
22 that it's already available affects your decision
23 about what the standard ought to be.

24 DR. OREN: Well, I think relying on a
25 single study puts a lot of eggs in one basket. I

1 think the fundamental question is when a drug is
2 available, clinicians can use it in an off-label basis
3 and will feel free to do so if the data is out there.
4 And I think the -- from that perspective, the amount
5 of data that the study provides to perhaps guide
6 clinicians in using this for this indication would be
7 useful to them, and I think it would be reasonable to
8 have official imprimatur behind.

9 DR. LAUGHREN: Let me just comment that I
10 see this situation as quite different than the usual
11 situation where we borrow evidence from other data for
12 a drug. For example, if we have acute efficacy data
13 for an antipsychotic drug, we might be willing to rely
14 on one trial for long-term efficacy. But I see this
15 as a distinct claim. In fact, the evidence shows that
16 there's a separation between the antipsychotic effect
17 and the effect on suicidality.

18 DR. OREN: I think at least in terms of --
19 and this gets into specific wording -- but if for the
20 claim of emergent suicidal ideation or emergent
21 suicidality, that is something different than -- and
22 this goes back to your question -- than lifelong
23 treatment with that. I think this is an important
24 clinical area where there isn't a good armamentarian
25 to use, and therefore that increases the potential

1 urgency for considering this indication.

2 DR. LAUGHREN: I just want to make sure
3 that what I'm hearing from -- when you say yes, you're
4 basing your decision on the evidence in hand, what we
5 have in front of us, the single study and whatever
6 confirmatory evidence we have in hand to support this
7 new claim.

8 DR. OREN: Do you want us to address
9 specific language kind of questions now, or do you
10 want us to turn to olanzapine?

11 DR. LAUGHREN: Why don't we talk about the
12 olanzapine issue and how it should be thought of
13 relative to olanzapine.

14 DR. OREN: Dr. Cook.

15 DR. COOK: Well, it seems to me there was
16 a concerted deliberation about choosing a reasonable
17 active comparator, and so I don't think you can make
18 a statement about olanzapine. It could just as easily
19 have been Resperidon (phonetic). The logic for
20 choosing this one doesn't seem to be a reason to make
21 -- I mean, obviously there's always a concern when
22 you're comparing two things, one might have gotten
23 worse, but all the evidence here suggests that
24 clozapine was better, not that olanzapine is worse.

25 DR. OREN: Dr. Winoker.

1 DR. WINOKER: I'm not sure of your exact
2 question, but something that was sent to us sort of
3 posed three answers making specific reference to
4 olanzapine, sort of extrapolating to all other
5 atypicals, or just making a comment against standard
6 treatment, and I would very much favor the third of
7 those options. I think it's clearly problematic to
8 try to extend from olanzapine to the whole broad
9 category since, as Dr. Meltzer's comment, we're not
10 sure of the subtle pharmacological differences that
11 might play into this. So, to me, that would be the
12 most appropriate.

13 DR. LAUGHREN: This relates very directly
14 to the precise language we would use in describing
15 both the trial and the claim in labeling, and the
16 choices open to us are to -- in some cases, we've done
17 this -- is to simply state that clozapine was superior
18 to a standard drug. We wouldn't even have to mention
19 the drug, even though many people would know what the
20 drug was, and the claim itself would not need to say
21 anything at all about a comparison, it would simply
22 state that it has this benefit. So, that clearly is
23 an option.

24 DR. WINOKER: And that's one that I would
25 favor for the reasons I mentioned.

1 DR. OREN: Dr. Mehta.

2 DR. MEHTA: When you describe the study,
3 I don't know how you're going to do it without putting
4 the side-effect data, without putting the control
5 agent name.

6 DR. LAUGHREN: Well, it will be a
7 challenge for us, but it's something we've done in
8 other settings. We have managed to describe
9 comparisons without naming the comparator.

10 DR. OREN: Dr. Katz.

11 DR. KATZ: The question, I think, is
12 whether or not the study, as conducted, truly
13 demonstrates superiority to the comparator, in this
14 case olanzapine. That's a difficult -- in general, in
15 comparative studies, it's a difficult conclusion to
16 draw largely because you have to worry about whether
17 or not you really had a fair comparison to the
18 comparator. In this study, you can think of it in
19 worse case -- unless it made the patients worse --
20 but, barring that, you can think of it sort of as a
21 placebo, and so you can conclude that the drug had an
22 effect, but it's difficult typically in these sorts of
23 studies to say that it was truly -- you know for a
24 fact that it was better than the comparator, again,
25 because the question of what's a fair comparison in

1 terms of dose of the comparator, and that sort of
2 thing, is a complex issue. So, as Tom says, we have
3 in the past not identified active controls in other
4 settings.

5 DR. OREN: Ms. Bronstein.

6 MS. BRONSTEIN: I don't know whether this
7 is valid, but it was interesting to me to note that
8 the number of other drugs used with Zyprexa were much
9 higher, and in managing patients that's more
10 difficult. So, that impressed me that the Zyprexa was
11 a more difficult drug to manage for this patient
12 population.

13 DR. OREN: Dr. Wang.

14 DR. WANG: Another reason to think about
15 not naming the comparator is -- I mean, in addition to
16 just -- maybe there's a little bit making less of a
17 definitive statement based on data that we might still
18 harbor a little bit of doubt about. Another reason is
19 just thinking about down the line for the practitioner
20 who has a patient who is on olanzapine, who suicides
21 or something. Does this box them in? Are they in
22 legal difficulty because the clinician didn't have the
23 patient on a regimen for high risk? If you name that
24 comparator, you might get the physician in trouble.

25 DR. KATZ: I don't know if that's really

1 a consideration that we ordinarily think about here.
2 Again, we generally decide whether or not the data
3 support a particular claim, and if they do, they get
4 that claim. If we think it's misleading to conclude
5 that the investigational drug was better than the
6 control, we won't put that, again, for reasons of
7 interpretation of the trial, not so much because
8 somebody might get into trouble if they do this or
9 that.

10 DR. OREN: The most conservative thing to
11 say is just that it's better than nothing. It treats
12 --

13 DR. KATZ: As Tom points out, that's an
14 option, not so much to say it's better than nothing,
15 but just to say it's effective. I mean, that's
16 typically how we decide whether something is
17 effective.

18 DR. OREN: Dr. Ryan.

19 DR. RYAN: In all the evidence so far, we
20 have no available data that suggests there's
21 differential antisuicide over suicide-promoting, I
22 guess, effects of the different atypicals and, indeed,
23 no evidence that there's differential effects of the
24 atypicals and the classic antipsychotics, right? So,
25 given that, we simply think this was an exemplar of

1 the whole class, and that's the reason for not
2 mentioning it? Because everything that was presented
3 here -- and I'm not an expert in this area -- there's
4 no evidence that one is better than another excepting
5 clozapine.

6 DR. KATZ: Again, one option is that you
7 would just -- since only olanzapine was studied, one
8 option is to say Clozaril is better than olanzapine in
9 preventing suicide. I mean, that's one reasonable
10 option. That's ostensibly what was shown in the
11 study. But what I'm saying is that we may be
12 reluctant to do that because we're not sure that
13 olanzapine was used -- besides the fact that it's
14 unblinded and who knows how patients were actually
15 dosed and what the motivation for dosing with a given
16 drug was, given that the investigators had new-
17 treatment assignment -- we don't know that it was a
18 strictly fair comparison to olanzapine. So, that
19 would be the reason for not mentioning it.

20 DR. RYAN: I was trying to agree with you,
21 it's just that I gave such a long answer it was hard
22 to know that I was agreeing.

23 (Laughter.)

24 But, in addition, it might be misleading
25 to the practitioner to emphasize that one single

1 compound rather than the fact that this is probably
2 better than a lot of them, or something.

3 DR. OREN: Dr. Katz, in your comment, you
4 said that one is better than the other in preventing
5 suicide. In fact, the data from the study did not
6 show that, and I think that's why the language that is
7 used here is critical to whatever we'd vote on in the
8 end.

9 Anything else on the olanzapine question?

10 (No response.)

11 Do you want us to address the adequacy of
12 suicidality outcome? Probably that's a key thing
13 because that would be part of the language.

14 DR. KATZ: I think we've discussed that.
15 I think most people have voted that this was -- the
16 package is sufficient for approval, so I think that's
17 covered.

18 DR. OREN: Do you want anything further?

19 DR. KATZ: I don't think so, other than to
20 say thanks very much, it's obviously a very
21 challenging issue, a lot of subtleties, and I
22 appreciate very much your work on this.

23 Let me also just mention that this is
24 Sandy Titus' last meeting as the Executive Secretary
25 for this and for the PCNS Advisory Committee. She's

1 moving on to other things. She's done a tremendous
2 amount of work for a number of years working with us,
3 and we'll miss her, and thank you very much. Thanks
4 for everything you've done.

5 (Applause.)

6 DR. OREN: This meeting is adjourned.

7 (Whereupon, at 3:15 p.m., the meeting of
8 the Psychopharmacological Drugs Advisory Committee was
9 concluded.)

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CERTIFICATE

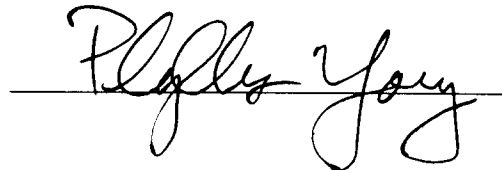
This is to certify that the foregoing transcript in the
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 Advisory Committee Meeting

Before: FDA-CDER

Date: November 4, 2002

Place: Gaithersburg, Maryland

represents the full and complete proceedings of the
aforementioned matter, as reported and reduced to
typewriting.

A handwritten signature in cursive script, reading "Philip Yary", is written over a horizontal line.