

1 These patients are getting those orally, which are
2 likely to be a lot more unsafe for the skeleton but
3 I know that is not a consideration for deliberating
4 on this. I guess I would have to say that overall
5 for considering the lung health of the patient and
6 the skeletal health and what I view as a very slow
7 erosion of their bone density, I would have to say
8 the overall safety profile is good.

9 DR. DYKEWICZ: From my perspective on the
10 safety I am considering several things. One is we
11 do have an agent for which we do know what the
12 potential side effects would be. We know what the
13 signals would be in terms of adverse effects of
14 corticosteroids on the body. So, it is not a
15 question that we are dealing with a totally unknown
16 entity where we don't know what to look for.

17 In the case of the studies of fluticasone
18 in asthma which generally are reassuring, of
19 course, that certainly has relevance to a
20 consideration of the use of this agent in COPD.
21 But I am quite conscious that the population of
22 COPD patients may potentially be more vulnerable to
23 certain adverse effects than might occur in a
24 population of asthmatics which will tend to be,
25 among other things, younger for instance.

1 So, I would like to, of course, ideally
2 see much longer follow-up than just the 24-week
3 study. As Dr. Malozowski has pointed out, there
4 are certain potential side effects that will be
5 perhaps more apparent with longer-term follow-up.
6 However, in the main, with those qualifications, I
7 do believe that there is reasonable safety data
8 that would then have to be judged in a risk-benefit
9 assessment when we finally come to the
10 approvability question.

11 DR. APTER: Like many of my colleagues, I
12 cannot say that these drugs are safe long-term for
13 chronic obstructive bronchitis. I am concerned
14 also about the large number of dropouts which made
15 the follow-up even shorter. I am concerned, like
16 the others, that this is a different population
17 than the asthmatic population -- older, more
18 morbidities.

19 DR. DYKEWICZ: Dr. Joad?

20 DR. JOAD: I am also concerned about this
21 product in this age group for this disease. I
22 think we need more data before we can decide on
23 safety. I just wanted to comment that changing the
24 package insert to saying for the treatment of
25 chronic obstructive bronchitis -- I think what that

1 will become is long-term therapy of chronic
2 obstructive bronchitis. I don't see how, in
3 practice, people will somehow give it for six
4 months and then stop it, and then give it again
5 sometime later. I think if it is approved for the
6 treatment it is going to be approved for the
7 long-term prevention of symptoms.

8 DR. DYKEWICZ: Ms. Schell?

9 MS. SCHELL: On this issue, I have some
10 concern and I can also see the potential benefit.
11 I am trying to weigh the benefit-risk in what I
12 have seen in patients who have been on this drug
13 already for treatment. I do have a problem with
14 the long-term wording because the studies weren't
15 geared towards the COPD patients that demonstrate
16 safety. I appreciate Dr. Bone's remarks and his
17 input on that, but looking at the benefit-risk,
18 again, it is difficult for me to say. I would
19 think as long as we continue to monitor, and maybe
20 that could be in the wording of the labeling, this
21 would be a benefit to the patient.

22 DR. DYKEWICZ: Let's then begin the formal
23 vote. Again, do the data provide sufficient
24 evidence of safety of Flovent Diskus for treatment
25 of chronic obstructive bronchitis?

1 DR. PARSONS: No.

2 DR. DYKEWICZ: Did you want to vote on
3 this question, Dr. Bone?

4 DR. BONE: I think the overall assessment
5 really belongs to people who work in this area so I
6 will pass on this.

7 DR. STOLLER: I will say no.

8 DR. FINK: No.

9 DR. ATKINSON: Yes.

10 DR. DYKEWICZ: Yes.

11 DR. APTER: No.

12 DR. JOAD: No.

13 MS. SCHELL: Yes.

14 DR. DYKEWICZ: The vote on the question is
15 three yes, five no, one abstention.

16 Moving on to question four, do the data
17 provide sufficient evidence of safety of Advair
18 Diskus for the treatment of chronic obstructive
19 bronchitis? I think we will go back to that side
20 of the table. Some thoughts on that question, Ms.
21 Schell?

22 MS. SCHELL: Much of my opinion is the
23 same as with the previous question as long as take
24 the "long-term" out and we just say treatment.
25 Also, again, looking at the population studied, I

1 have concerns about COPD patients compared to
2 asthma patients in this study.

3 DR. DYKEWICZ: Dr. Joad?

4 DR. JOAD: With Advair, my concern is the
5 steroid components so my thoughts would be the same
6 as before.

7 DR. DYKEWICZ: Dr. Atkinson?

8 DR. ATKINSON: Yes, I am not that
9 concerned about the salmeterol component either so
10 I think my opinion wouldn't change either.

11 DR. DYKEWICZ: Thank you, Dr. Atkinson.
12 Dr. Apter?

13 DR. APTER: My concerns are the same as
14 previously for Flovent. I could say "but" and
15 change if the wording included "not for long-term
16 management."

17 DR. DYKEWICZ: So, if I rephrased it
18 long-term, you would vote no, but if I stated that
19 it was just for treatment you might vote yes?

20 DR. APTER: That safety has only been
21 established for short-term treatment.

22 DR. DYKEWICZ: I guess my view is that the
23 data is paralleling that of the safety data for
24 Flovent Diskus because I don't really believe that
25 the addition of the salmeterol component raises any

1 significant safety issues. Dr. Fink?

2 DR. FINK: I would agree with that and I
3 think actually there is an additional safety factor
4 for the Advair Diskus in that clinical practice I
5 think it is general knowledge that Advair is only
6 dosed twice a day, and I think the potential that
7 physicians would escalate the dosage of Advair to
8 three or four inhalations a day is far less than
9 for the Flovent 500 Diskus being escalated. So, by
10 being a combination product -- I never would have
11 imagined myself saying this, I think it is probably
12 safer in clinical practice.

13 DR. DYKEWICZ: Dr. Stoller?

14 DR. STOLLER: My comments would be as
15 before, although I would say, again, in the
16 interest of being as helpful to the agency as I can
17 with regard to really framing what I think, I think
18 in the context of what we have been shown, as I
19 mentioned before, I don't have huge safety concerns
20 within the scope of the 24 weeks as shown. My
21 concerns are extrapolated to the clinical
22 implications of long-term use which is not
23 satisfied by the data at hand. So, it really
24 defaults to kind of a word-smithing issue. You
25 know, if you are going to write the label so it

1 says it is approved for the relatively short-term
2 management of chronic obstructive bronchitis and it
3 is safe in that regard, my concerns are less. If
4 it is going to be kind of open-endedly endorsed for
5 the in perpetuity treatment of patients, I have
6 concerns, as I have said before, about its safety.
7 So, I would say that, very simply put, I am not
8 satisfied that long-term safety benefit has been
9 shown by the data at hand. I think within the
10 framework of what we have been shown I have no
11 major immediate concerns about major adverse
12 clinical events right now.

13 DR. DYKEWICZ: Thank you. Dr. Parsons?

14 DR. PARSONS: I have the same concerns
15 with this one that I did with the Flovent, which is
16 that the long-term safety has not been established.
17 I think, no matter how we word that, whether it is
18 just simply for treatment of chronic obstructive
19 bronchitis or whatever, it will be used long-term.
20 I think to try to label it that it both has
21 efficacy and is safe for 24 weeks -- I guess that
22 is an option but I think every physician that then
23 treated their patient for 24 weeks, at 24 weeks
24 would have a therapeutic decision to make and I
25 think the patients would stay on the drug. So, I

1 think we need to look at it as something that is
2 going to be used as long-term persistent therapy,
3 and I think in that use there is not adequate
4 safety data.

5 DR. DYKEWICZ: Any other general comments
6 from the committee? If not, let's begin the formal
7 vote. Do the data provide sufficient evidence of
8 safety of Advair Diskus for the treatment of
9 chronic obstructive bronchitis? Ms. Schell?

10 MS. SCHELL: Yes.

11 DR. JOAD: No.

12 DR. APTER: Again, no in terms of long
13 term.

14 DR. DYKEWICZ: Yes.

15 DR. ATKINSON: Yes.

16 DR. FINK: Yes.

17 DR. STOLLER: No.

18 DR. PARSONS: No.

19 DR. DYKEWICZ: On the issue of safety of
20 Advair Diskus, the votes were four yes, four no,
21 one abstention. Dr. Meyer?

22 DR. MEYER: Just before we go on to the
23 next question, I just wanted to really set the
24 stage for this question because I think it is
25 important that here you don't change the wording;

1 that you use the wording that we have because that
2 is the wording that is proposed by the sponsor.
3 But, I think a yes vote, if the committee will look
4 down below, allows for several options. So, in
5 essence, what we are asking here is any level of
6 yes. In other words, if you are clear that your
7 answer is no, no matter what is done to the
8 labeling or what other kind of Phase IV studies
9 might be recommended, vote no. If you are in any
10 other category vote yes, and then you will have an
11 opportunity to give us advice as to what labeling
12 or other restrictions might be needed, whether only
13 one dose or two doses and what Phase IV studies you
14 might recommend if it is a yes.

15 DR. FINK: Just a clarification I guess,
16 do we have to consider both products? If we have
17 one product that has clearly higher efficacy with
18 no additional toxicity, I am not sure why we would
19 want to market or approve two different products
20 even if they showed efficacy and safety when you
21 have a product that clearly has better efficacy
22 with no additional safety concerns.

23 DR. MEYER: I understand your point but we
24 are asking these as separate questions about
25 separate applications and I think we need separate

1 advice.

2 DR. DYKEWICZ: A question by Dr. Parsons?

3 DR. PARSONS: I just have a question about
4 procedure. If the answer is yes but there are
5 Phase IV studies that are recommended, do those
6 studies get completed before the drug gets
7 marketed?

8 DR. MEYER: No.

9 DR. PARSONS: Is there a time frame in
10 which they need to be completed?

11 DR. MEYER: We do agree to a time frame
12 with the sponsors in instances of Phase IV studies.
13 Generally, the kind of studies that are often done
14 in Phase IV, it is two or three years before we get
15 the data in.

16 DR. DYKEWICZ: Dr. Apter?

17 DR. APTER: I was just going to comment
18 about Flovent. Some patients will probably use
19 Flovent and Serevent separately. Maybe their
20 insurance won't allow a combination, or things like
21 that.

22 DR. DYKEWICZ: Dr. Stoller?

23 DR. STOLLER: Just a procedural question,
24 my understanding is that, obviously, as a
25 hypothetical were it to be approved and were there

1 to be recommendation for Phase IV studies, and we
2 were two and a half years into the Phase IV studies
3 with clear evidence of higher incidence of
4 fractures in a dose-related way, what implications
5 would that have retrospectively for the indication?
6 In other words, what are the teeth of a Phase IV
7 study from the agency's perspective?

8 DR. MEYER: In usual approvals -- because
9 there are approvals contingent on a Phase IV study
10 -- it is understood under the actual mechanism of
11 the statute that if it comes out negative you
12 withdraw approval. I think with most of this we
13 would be talking about perhaps very stringent
14 labeling changes.

15 Bear in mind that in this specific
16 instance these drugs are already on the market and
17 they are, I am sure, being used for COPD now and
18 they will continue to be used for COPD one way or
19 the other after our discussion today. So, I don't
20 think we would be talking about a Phase IV study
21 that would lead us to absolute withdrawal --
22 certainly the approval, but perhaps not even the
23 indication.

24 DR. DYKEWICZ: Comment from Glaxo?

25 DR. WHEADON: Just one or two points of

1 clarification. I fully respect the vote and the
2 commentary of the committee and we really
3 appreciate the input. I think it is important to
4 note that there are several precedents where drugs
5 have been approved for chronic illnesses. I am a
6 psychiatrist; depression being a prime example of
7 one, where the language can be such that you
8 indicate that the studies were of certain duration.
9 In the case of studies for depression they
10 typically are six to eight weeks duration. So, the
11 labeling clearly can reflect the duration of
12 treatment in the studies that we have presented
13 before you.

14 Additionally, a number of concerns have
15 been raised by the committee concerning the
16 potential for long-term use. From our perspective
17 certainly, labeling is perhaps the most informative
18 place for physicians to understand what we do know
19 and what we don't know about safety. A number of
20 committee members have sort of been reflecting on
21 just how safe or unsafe these things may be.
22 Clearly, labeling can be a very cogent repository
23 of that state of affairs. I think that is
24 important to keep in mind as we go through the next
25 level of discussion.

1 DR. DYKEWICZ: Thank you. I guess I would
2 make my personal response that I think oftentimes
3 physicians are remiss in looking at labels and the
4 details in labels. Some of my colleagues have
5 expressed concerns that although one can nuance
6 phrasing in labeling, there still is the concern
7 that when you do give an approval status you have
8 to think that, in fact, physicians won't be reading
9 the fine print. So, that is a consideration.

10 But just to redirect to Dr. Meyer in terms
11 of the decision about approvability, based upon the
12 statutory language that we are using in our
13 deliberations here, there is the statement that we
14 are making an assessment about substantial evidence
15 of efficacy and safety and, thereby, kind of an
16 implicit assessment of relative benefits versus
17 risks of the drug. So, that is what I am
18 personally going to use in my deliberation but
19 presumably other people will consider that as well.

20 DR. MEYER: Absolutely. This is the
21 question that really integrates what we know from
22 the efficacy and what we know from the safety, and
23 how you put that together in making your
24 recommendation.

25 DR. DYKEWICZ: This now is again just

1 discussion on what your thoughts are about the
2 approvability of Flovent Diskus for the indication
3 of long-term, twice daily maintenance treatment of
4 COPD.

5 DR. PARSONS: Well, I voted that, yes, it
6 had shown efficacy at the 500 mg dose, but it was a
7 yes, "but" and I thought that there was not
8 adequate safety data. So, I think if I add those
9 together the answer would be no, I would not
10 recommend approval at this time, primarily because
11 of safety concerns, which are not necessarily all
12 that great but the level of efficacy shown also
13 wasn't that great. So, I would err on the side of
14 saying no.

15 DR. DYKEWICZ: Thank you. Dr. Stoller,
16 your thoughts?

17 DR. STOLLER: Again, I want to be very
18 explicit in my response to the process, which is to
19 respond to Dr. Meyer's lead that if there is any
20 dimension of yes one has the opportunity to qualify
21 the yes. So, I would say overall yes. I would say
22 that there would need to be very stringent
23 constraints on the labeling regarding the
24 difference between COPD and chronic obstructive
25 bronchitis. I would have to put very specific

1 language about duration of therapy in regard to
2 what the indication would say, and I do that
3 cognizant of the difference between what it says on
4 the label and how it is used clinically. I live in
5 that world and I understand that world very well,
6 but I think the rules of engagement, if you will,
7 are around the specific endpoints. We are not
8 turning the clock back and saying, you know, could
9 we design the study from first principles. I am
10 sympathetic to the significant amount of work and
11 energy that has gone into trying to evaluate it
12 along those lines.

13 So, I would say yes, but in terms of
14 long-term for both doses I would have those
15 labeling contingencies on both, and I would say
16 that in Phase IV studies I would absolutely be
17 interested in long-term monitoring, not just on
18 patient-reported data but with regard to the
19 explicit investigation for both bone and ocular
20 manifestations. Given what we know from some of
21 the asthma literature, admittedly what we don't
22 know from the Lung Health Study, and also on a more
23 prolonged examination of survivorship, which I
24 gather will ultimately be forthcoming and which
25 will clearly inform the clinical relevance with

1 delta FEV1 of 100 or 160 ml. I think all of us, if
2 we were presented with data which showed that there
3 was a 100 ml increment that was reproducible but
4 translated over longer term to no symptomatic
5 benefit, perhaps no survival benefit and a higher
6 frequency of fractures, or even one more cataract,
7 it would be very difficult to clinically embrace
8 the use of these drugs.

9 So, I would say yes in terms of the
10 overall possibility that there would be benefit,
11 but I would think that yes would have to be very
12 carefully crafted in the labeling around those
13 concerns, and I would have those recommendations on
14 Phase IV monitoring.

15 DR. DYKEWICZ: Thank you. Dr. Fink?

16 DR. FINK: I would lean towards saying no
17 with the fact that the relatively modest effect
18 carries with it all of the toxicity and safety
19 concerns, and it would be hard to approve the
20 steroid component alone when you think of the
21 additional benefit with the use of the combination
22 product.

23 DR. DYKEWICZ: Dr. Atkinson?

24 DR. ATKINSON: I would recommend yes, but
25 I would also agree with the comments that have been

1 made previously about specifying that the treatment
2 period for which safety had been shown was only 24
3 weeks, and that the population that is was most
4 likely to be effective in was chronic bronchitis.

5 DR. DYKEWICZ: Thank you. I guess I would
6 view a qualified yes, echoing Dr. Stoller and Dr.
7 Atkinson, with some additional consideration about
8 labeling relative to Dr. Bone's discussion earlier
9 about the appropriateness of considering that
10 because the long-term adverse effects of
11 fluticasone and bone density are not well known in
12 COPD patients, are not well characterized in COPD
13 patients, consideration should be made to
14 assessment of periodic bone density measurements.
15 You know, the exact phrasing might be worked out
16 but I think there would be some caution statement
17 that I would put in that would reflect that
18 concern.

19 DR. APTER: I agree with Dr. Stoller and
20 Dr. Dykewicz, and I would say yes to both doses. I
21 think some patients would use Flovent and Serevent
22 separately. Again, I do think labeling
23 restrictions are needed. I am concerned about the
24 lack of long-term data. Phase IV studies, I agree,
25 should look at both side effects and efficacy

1 markers like survival, like exacerbations, like
2 prednisone requirements and side effects on bone
3 density findings and adrenal status.

4 DR. DYKEWICZ: Thank you. Dr. Joad?

5 DR. JOAD: I know it seems clear I am
6 going to say no but the caveat I think I would like
7 to say is that I think there is potential in both
8 of these products, and my concern is we haven't had
9 the demonstration of them, that they are effective
10 and that they are safe. This is such a large
11 number of patients that will receive it, and they
12 are elderly, and I think now is the time, before
13 you approve it, to show that it really is effective
14 and to show that it really is safe. To me, it
15 would be jumping the gun to approve it now when we
16 could require very carefully controlled studies to
17 satisfy ourselves that it is effective, really
18 changing symptoms, and it really is safe.

19 DR. DYKEWICZ: Thank you. Ms. Schell?

20 MS. SCHELL: As to the wording in question
21 five as it is, I still have problems with the
22 wording but I would say yes, and I think the only
23 dose I would approve would be the 500. I would
24 also like to see restriction on labeling,
25 including, as Dr. Bone said, some pretesting on

1 patients for their bone density and follow-up.
2 Also, I would like to see in the Phase IV studies
3 some pre-exacerbations after they get started on
4 the drug to see if there was a comparison in less
5 frequency, and dose.

6 DR. DYKEWICZ: Thank you. Now let's take
7 the formal vote on question five, with the provisos
8 that we have. So, do you recommend approval of
9 fluticasone Diskus for the indication of long-term,
10 twice daily maintenance treatment of COPD,
11 including emphysema and chronic bronchitis?

12 DR. PARSONS: Could I just ask a quick
13 clarification question? Dr. Stoller, I think Dr.
14 Fink and a couple of others, when you are saying
15 yes with specific labeling restrictions, are you
16 thinking of restrictions being yes for 24 weeks in
17 chronic obstructive bronchitis?

18 DR. DYKEWICZ: I personally was thinking

19 --

20 DR. PARSONS: I am sorry --

21 DR. DYKEWICZ: No, that is fine, I think
22 four of us may have been of a similar mind on this
23 -- but that there would be a labeling statement
24 that the studies conducted were of limited duration
25 of 24 weeks. I think, if I am correctly

1 summarizing, the thought was that we would
2 recommend that Phase IV studies be aggressively
3 pursued about looking at concerns of systemic side
4 effects and particularly bone issues. As I
5 understand it from the charge given to us by Dr.
6 Meyer, if those provisions or provisos or caveats
7 are articulated, if we would then feel we could
8 state yes, then we should vote yes.

9 DR. PARSONS: I vote no.

10 DR. DYKEWICZ: Dr. Stoller?

11 DR. STOLLER: Again, under the rules as I
12 understand them from Dr. Meyer's charge, I would
13 say yes contingent upon all the comments I made.

14 DR. FINK: No.

15 DR. ATKINSON: Yes, under the same
16 restrictions.

17 DR. DYKEWICZ: Yes, with restrictions.

18 DR. APTER: Yes, with restrictions.

19 DR. JOAD: No.

20 MS. SCHELL: Yes.

21 DR. DYKEWICZ: The formal vote on the
22 Flovent recommendation for approval would be five
23 yes, three no and one abstention.

24 Last question, number six, do you
25 recommend approval of Advair Diskus for the

1 indication of long-term, twice daily maintenance
2 treatment of COPD, including emphysema and chronic
3 bronchitis? Let's begin discussion with Ms.
4 Schell.

5 MS. SCHELL: I would agree to approve this
6 drug with the same reservations I had previously.
7 I would approve both doses with labeling
8 restrictions as well, and a continued Phase IV
9 study with those recommendations.

10 DR. DYKEWICZ: Dr. Joad?

11 DR. JOAD: I don't really have anything to
12 add, but I would just like to repeat that I think
13 it is unlikely that people will only give it for 24
14 weeks, highly unlikely.

15 DR. DYKEWICZ: Dr. Apter?

16 DR. APTER: I would vote yes, with the
17 same restrictions and arguments as previously.

18 DR. DYKEWICZ: I am of a similar mind,
19 yes.

20 DR. ATKINSON: Yes, as before.

21 DR. FINK: I would vote yes on this drug,
22 but I would like to see a required Phase IV trial
23 both for Advair and Flovent, if it is approved. I
24 think there should be a required Phase IV dose
25 escalation study to actually provide data on how

1 many patients would have a suboptimal response at
2 the 250 dose of either drug and have a better
3 response at the 500 dose.

4 DR. DYKEWICZ: Thank you. Dr. Stoller?

5 DR. STOLLER: I would say yes, again
6 subject to the same contingencies. I guess I would
7 also perhaps use this as an opportunity to talk
8 about -- I don't see the language about the
9 doubling dose reflected in this commentary and that
10 was, as I remember, Dr. Lee's initial comment, that
11 there was language about doubling the dose for
12 failure to respond. I would say one of the other
13 labeling contingencies that I would create would be
14 to eliminate that as I am not satisfied with the
15 dose responsiveness data and I think that in order
16 to justify that comment it would require evidence
17 that within a single patient, who failed to respond
18 at a lower dose, that there was essentially an
19 inter-patient crossover experience rather than a
20 parallel controlled comparison of two cohorts to
21 show that doubling the dose was justified for
22 non-response to the lower dose. So, I would not be
23 comfortable with language about a higher dose may
24 help in the absence of benefit at the lower dose.
25 So, that is the other qualification of language

1 that I would apply. I know it is not on the table
2 here because it is not framed in the question, but
3 as I recall it was one of the language indication
4 and I guess I would comment on that probably around
5 both of these doses.

6 DR. DYKEWICZ: Actually, I am very glad
7 you mentioned that because that would be a concern
8 of mine as well, that the recommendation for dose
9 escalation in an individual patient has not been,
10 obviously, looked at with the data presented. Dr.
11 Parsons?

12 DR. PARSONS: I have the same concerns
13 regarding this one as I did for Flovent. I would
14 still answer no. I think if Phase IV studies were
15 done they would probably show that this drug is
16 safe. I think that is likely to occur. I think
17 with the limited efficacy that has been shown, it
18 is worth waiting to be sure the drug is safe. So,
19 that would be my recommendation.

20 DR. DYKEWICZ: Thank you. Now for the
21 formal vote with the rules of engagement that have
22 been articulated, do you recommend approval of
23 Advair Diskus for the indication of long-term,
24 twice daily maintenance treatment of COPD,
25 including emphysema and chronic bronchitis? Ms.

1 Schell?

2 MS. SCHELL: Yes, with the stated
3 restrictions.

4 DR. DYKEWICZ: Dr. Joad?

5 DR. JOAD: No.

6 DR. DYKEWICZ: Dr. Apter?

7 DR. APTER: Yes, with the restrictions and
8 endorsements of Dr. Fink's suggestion for a dose
9 escalating study.

10 DR. DYKEWICZ: Yes.

11 DR. ATKINSON: Yes.

12 DR. FINK: Yes.

13 DR. STOLLER: Yes, again with the
14 contingencies as stated.

15 DR. PARSONS: No.

16 DR. DYKEWICZ: The final vote on question
17 six about recommending approval of Advair Diskus is
18 six yes, two no, one abstention. Are there any
19 final comments that any members of the committee
20 want to make, maybe about stipulations about
21 product labeling, additional safety studies that
22 were recommended, or have you all articulated your
23 concerns previously? Dr. Joad?

24 DR. JOAD: Was the final labeling going to
25 say chronic obstructive bronchitis? Did we say

1 that? I thought we had said that with the efficacy
2 part.

3 DR. DYKEWICZ: Maybe what we should do is
4 get a consensus from the committee, but Dr. Meyer?

5 DR. MEYER: At the risk of offending
6 folks, I think we heard that, maybe not as a
7 consensus but as a very strong opinion and I think
8 we will take that under very strong advisement.

9 I did want to make a closing statement. I
10 think I heard some folks earlier talking about
11 framing linguistic "buts." I think we have framed
12 our physical ones here in these seats.

13 [Laughter]

14 This has been a very useful discussion.
15 In all seriousness, I thank you very much for all
16 your advice and very careful thought. For our
17 guests, for Dr. Bone, Dr. Wise and for Dr.
18 Malozowski, I am specially thankful for your
19 expertise in these matters, and again thank the
20 committee for their time today.

21 DR. DYKEWICZ: As chair, I would again
22 like to thank everyone for their attentiveness and
23 for their participation. Have a good evening. We
24 are adjourned.

25 [Whereupon, at 5:10 p.m., the proceedings

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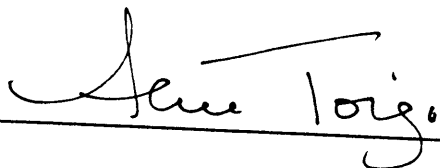
1 were recessed, to resume on Friday, January 18,
2 2002 at 8:00 a.m.]

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C E R T I F I C A T E

I, ALICE TOIGO, the Official Court Reporter for Miller Reporting Company, Inc., hereby certify that I recorded the foregoing proceedings; that the proceedings have been reduced to typewriting by me, or under my direction and that the foregoing transcript is a correct and accurate record of the proceedings to the best of my knowledge, ability and belief.


ALICE TOIGO