

1 DR. BIRNBACH: It has been moved that the  
2 PMA be approved with conditions and seconded.

3 Please refer to the yellow portion of the  
4 voting procedure flowchart in your folder. Remember,  
5 we're voting on the conditions of approval for this  
6 PMA application as it stands. We must first  
7 recommend the condition. The condition must then be  
8 seconded. There will be discussion regarding the  
9 recommended condition as it was worded. Then there  
10 will be a vote on that condition.

11 If that condition is approved, it will be  
12 the first condition to the main motion approvable  
13 with conditions. We will then move onto a new  
14 condition and repeat this process until there are no  
15 new conditions.

16 Finally, we will vote on the motion to  
17 approve the Zephyr Endobronchial Valve System with  
18 all of the conditions we have just approved by a  
19 majority vote.

20 Having said that, does anyone wish to  
21 recommend a condition? Dr. Marcus.

22 DR. MARCUS: I would recommend that the  
23 post-approval study as outlined in number 6 in the  
24 questions for the Panel be a condition of approval.

25 DR. BIRNBACH: So the condition recommended

1 was that there be a postmarket study that is mandated  
2 based on question number 6?

3 DR. MARCUS: Correct. And with the  
4 provisions of the discussion that we've had with the  
5 concerns that it may not be exactly as that, that is  
6 there needs to be evaluation of quality of life as  
7 well.

8 DR. BIRNBACH: Is there a second for that?

9 UNIDENTIFIED SPEAKER: Second.

10 DR. BIRNBACH: Okay. Is there discussion  
11 of the first condition? Dr. Dominik, is that you?

12 DR. DOMINIK: Yes.

13 DR. BIRNBACH: I couldn't tell if you were  
14 having a seizure or --

15 DR. DOMINIK: It's a seizure. We've talked  
16 about one sort of study for a postmarketing study.  
17 If this were approved with conditions, I would have  
18 to see a randomized trial, you know, done immediately  
19 as well.

20 DR. BIRNBACH: Are you moving that a new  
21 condition be a randomized trial or are you responding  
22 to --

23 DR. DOMINIK: Well, I don't know how we --

24 DR. BIRNBACH: We need to --

25 DR. DOMINIK: So in addition to --

1 DR. BIRNBACH: -- come up with all the  
2 conditions and then we need to vote. So if you're  
3 suggesting that you would rather not vote for  
4 approval with conditions, you will have that  
5 opportunity when this is voted on with all of the  
6 conditions.

7 On the other hand, at this point, we need  
8 to figure out what those conditions should be, should  
9 the vote be positive for going ahead with approval  
10 with conditions.

11 DR. DOMINIK: I mean should the vote be  
12 positive for approval with conditions? I am  
13 proposing that one of those conditions be that a  
14 randomized trial of the device --

15 DR. BIRNBACH: We vote on each condition  
16 separately. So we now have a motion on the table,  
17 and we're going to vote on that one, and then we're  
18 going to open it up to new conditions, and that would  
19 be the time to add the new conditions. Dr. Li.

20 DR. LI: I just have a mechanics question  
21 that maybe either you or someone from the FDA can  
22 answer. If we approve with conditions, does that  
23 mean the device is essentially approved and they can  
24 start selling it on day one, but they have to promise  
25 to do whatever it is we specify as a condition, or

1 can we say that they have to do the condition first  
2 before it's approved?

3 Let me try to reask the question in a more  
4 straightforward way. If we add conditions, those are  
5 conditions that happen essentially after approval.  
6 Is that correct?

7 DR. LIN: Yes. Uh-huh. When you say  
8 approvable with conditions, that means that the  
9 Sponsor has to conduct the study when we approve that  
10 the study, you know, that's -- post-approval study.

11 DR. LI: Okay. So we basically approve it  
12 with just whatever it is that we've got right now,  
13 whatever --

14 DR. LIN: Yes.

15 DR. LI: Okay.

16 DR. TILLMAN: Good afternoon. I'm  
17 Donna Bea Tillman. I'm the Director of the Office of  
18 Device Evaluation. I just want to clarify because  
19 this is a very complicated issue.

20 So what the Panel needs to decide, in  
21 determining whether the PMA should be approved or  
22 approved with conditions, is whether or not the  
23 Sponsor has the data right now that demonstrates a  
24 reasonable assurance of safety and effectiveness.

25 So you have to first find that they have

1 demonstrated a reasonable assurance of safety and  
2 effectiveness, and then if you think that there are  
3 conditions that need to be applied, including a post-  
4 approval study to answer other important questions,  
5 then you can recommend that that study be conducted.

6 But it's really important to remember that  
7 it's not appropriate to request the Sponsor to do a  
8 post-approval study that would give you the data that  
9 you would need to have to show a reasonable assurance  
10 of safety and effectiveness. You have to make that  
11 finding first. Is that clear?

12 DR. BIRNBACH: Dr. Dominik, I think that's  
13 for you. So we need to vote --

14 DR. DOMINIK: I think it's for all of us  
15 actually.

16 DR. BIRNBACH: We need to vote on the first  
17 condition if there's no more discussion about the  
18 condition, and the first condition was that we  
19 require a post-approval study based on question  
20 number 6.

21 All of those in favor of condition number  
22 1?

23 DR. MARCUS: Do we not vote for all of the  
24 conditions?

25 DR. BIRNBACH: One at a time. We vote on

1 one condition at a time, put all the conditions in,  
2 and then we vote on a decision.

3 DR. MARCUS: Got you. Okay.

4 DR. BIRNBACH: So condition number 1 is  
5 that we mandate a post-approval study and that we  
6 make it a little bit more intense than originally  
7 suggested.

8 All those in favor of condition 1?

9 (Show of hands.)

10 DR. BIRNBACH: So for the record,  
11 Dr. Marcus votes yes, Dr. Ries votes yes, Dr. Loeb  
12 votes yes, and Dr. Domino votes yes.

13 All of those against condition 1?

14 (Show of hands.)

15 DR. BIRNBACH: Okay. Dr. Dominik votes no,  
16 Dr. Halabi votes no, Dr. Willsie votes no, Dr. Li  
17 votes no, Dr. Cassiere votes no, Dr. Wilcox votes no,  
18 Dr. Vassiliades votes no, Dr. Wiswell votes no, and  
19 Dr. Brunson votes no.

20 Are there any other conditions at this  
21 point that anyone would like to propose? Dr. Loeb.

22 DR. LOEB: I would like to propose changing  
23 the labeling dramatically to very specifically to  
24 identify the appropriate patient use and the early  
25 evaluation of effectiveness to create a decrease in

1 the size of the --

2 DR. BIRNBACH: Hold on. Early evaluation  
3 of effectiveness has nothing to do with labels. So  
4 is that a second condition or third condition?

5 DR. LOEB: Well, I don't know where else  
6 you'd put evaluating the effectiveness except in the  
7 labeling. Would that be -- I guess the other place  
8 would be in the education of users perhaps.

9 DR. WILCOX: It's my understanding that we  
10 can't put a condition on to evaluate effectiveness.  
11 We have to be satisfied that it is an effective  
12 device.

13 DR. LOEB: I'm not saying effectiveness in  
14 that way. I'm saying to -- that the placement is  
15 achieving the goal of decreasing the size of the  
16 diseased lobe, that the diseased lobe is atelectatic.  
17 I would think that would go in the labeling, but  
18 maybe I'm wrong.

19 DR. BIRNBACH: Okay. So I have a motion to  
20 change the labeling to specify which patients and to  
21 also somehow specify a way to evaluate the  
22 effectiveness from the practitioners.

23 DR. LOEB: The effective placement, yes.

24 DR. BIRNBACH: Effective placement. Is  
25 there a second for this motion?

1 UNIDENTIFIED SPEAKER: Second.

2 DR. BIRNBACH: Is there any discussion of  
3 this motion? Dr. Ries.

4 DR. RIES: It sounds like to me that's two  
5 conditions. One is a condition over the selection of  
6 patients, which has to do with characteristics of the  
7 lung or radiographic characteristics. And the second  
8 is actually a condition on the procedure which is  
9 lobar, you know, just trying to effect lobar  
10 exclusion. So I might suggest as an amendment that  
11 we consider this as two conditions.

12 DR. BIRNBACH: Do you accede to that  
13 request?

14 DR. LOEB: Yes.

15 DR. BIRNBACH: All right. So we have one  
16 condition, and it's been seconded, which is that we  
17 change the label. Is there any discussion on  
18 changing the label? Dr. Li.

19 DR. LI: I'll just reiterate, I didn't see  
20 who said it at the end, but I'll just reiterate not  
21 so much the comment on your condition, but the idea  
22 that the labeling will control the use at all I think  
23 is not a reasonable supposition.

24 DR. BIRNBACH: Okay. Any other discussion?  
25 Are we ready to vote on condition number 2, condition



1 number 2 being changing of the labeling? All in  
2 favor of changing of the labeling?

3 (Show of hands.)

4 DR. BIRNBACH: Okay. Dr. Marcus votes yes,  
5 Dr. Ries votes yes, Dr. Loeb votes yes, Dr. Domino  
6 votes yes.

7 All those against changing the labeling?

8 (Show of hands.)

9 DR. BIRNBACH: Dr. Dominik votes no,  
10 Dr. Halabi votes no, Dr. Willsie votes no, Dr. Li  
11 votes no, Dr. Cassiere votes no, Dr. Wilcox votes no.  
12 Dr. --

13 DR. VASSILIADES: V.

14 DR. BIRNBACH: Thank you. Why didn't I  
15 think of that all day? Dr. V says no, Dr. Wiswell  
16 says no, and Dr. Brunson votes no.

17 I believe we have a motion for a third  
18 change. You originally had two, and you tabled your  
19 second one to be a separate --

20 DR. LOEB: Well, I guess my third one then  
21 will relate to education and training of the people  
22 who will be using the device to include patient  
23 selection, how to perform the procedure the best way,  
24 and how to evaluate proper placement of the device,  
25 that the placement has been effective and the

1 appropriate indications for removing the device.

2 DR. BIRNBACH: So this condition would be a  
3 part of education.

4 DR. LOEB: I think that's where it would  
5 go. I can't envision that this would be done without  
6 rigorous education that would include all of those  
7 four components.

8 DR. BIRNBACH: All right. So there is a  
9 motion on the table to have a rigorous educational  
10 program associated with this device after approval,  
11 and that would include information such as proper  
12 placement, how many you have to do before you're  
13 capable of doing them and when to remove the device.

14 Is there a second for this --

15 DR. LIN: Can I may a comment?

16 DR. BIRNBACH: Yes.

17 DR. LIN: As Dr. Tillman just mentioned,  
18 before you consider any approval with condition, I  
19 think first the Panel need to decide whether this PMA  
20 provide enough data to show a reasonable assurance of  
21 safety and effectiveness. Then you probably can  
22 start to discuss any conditions.

23 DR. BIRNBACH: I believe that when we vote  
24 on this, that will become germane, if not obvious.

25 So is there a second for that motion?

1 UNIDENTIFIED SPEAKER: I'll second it.

2 DR. BIRNBACH: There is a second for the  
3 motion. Is there any discussion about having  
4 rigorous education after approval?

5 DR. VASSILIADES: Well, I'll just make a  
6 comment to Dr. Lin. It seems to me that is sort of  
7 the critical question because, you know, if we don't  
8 accept the fact that there's reasonable assurance of  
9 safety and effectiveness, then I don't know why we're  
10 making further conditions.

11 DR. BIRNBACH: So at some point, since you  
12 guys were the ones who moved and seconded that this  
13 be approved with conditions --

14 DR. VASSILIADES: We believe it is.

15 DR. BIRNBACH: -- the way that this reads  
16 is we have to see if we can come up with conditions  
17 and the entire Panel has to decide whether they agree  
18 with that. If at that point, the Panel agrees or if  
19 there is opinion that with or without conditions that  
20 the majority do not, then another motion can be made,  
21 and I believe that's the way this has to play out.

22 UNIDENTIFIED SPEAKER: That's the way I  
23 read it.

24 DR. BIRNBACH: Okay. So are there any --  
25 oh, we need to vote on this. So it has been moved

1 and seconded that there be a rigorous educational  
2 program if this is approved. All of those in favor  
3 of a rigorous educational program as part of the  
4 approval, if it is approved?

5 (Show of hands.)

6 DR. BIRNBACH: Okay. So keep your hands  
7 up. We've got Dr. Marcus, Dr. Ries, Dr. Li,  
8 Dr. Wilcox, Dr. Loeb, Dr. Brunson, and Dr. Domino  
9 saying yes.

10 All those against having a rigorous  
11 educational program?

12 (Show of hands.)

13 DR. BIRNBACH: Okay. Dr. Dominik,  
14 Dr. Halabi, Dr. Willsie, and Dr. V, oh, no, and  
15 Dr. Wiswell and Dr. Cassiere say no. And the numbers  
16 are 7 for, 6 against.

17 Okay. So we have condition number 1.

18 Are there any other conditions that anyone  
19 would like to propose or make a motion?

20 (No response.)

21 DR. BIRNBACH: Okay. Based on that, I  
22 believe that we are ready for the main motion vote.  
23 My understanding is that we are voting for approval  
24 with conditions, and the condition that we have  
25 amended to this is that there be a rigorous

1 educational program that is required after release.

2           Okay. So that being said, time to vote.  
3 Will all of those in favor of the motion show your  
4 hands?

5           (Show of hands.)

6           DR. BIRNBACH: Okay. So Dr. Marcus and  
7 Dr. Ries vote to approve with the condition.

8           All those against the motion to approve  
9 with the condition?

10          (Show of hands.)

11          DR. BIRNBACH: Dr. Dominik, Dr. Halabi,  
12 Dr. Willsie, Dr. Li, Dr. Cassiere, Dr. Wilcox, Dr. V,  
13 Dr. Loeb, Dr. Wiswell, Dr. Brunson and Dr. Domino  
14 vote no.

15          The motion fails. The vote fails. Is  
16 there another motion?

17          DR. VASSILIADES: I have another motion.

18          DR. BIRNBACH: Okay. So we'll go in order.  
19 Dr. V's motion.

20          DR. VASSILIADES: I would motion that the  
21 device not be approvable.

22          UNIDENTIFIED SPEAKER: Second.

23          DR. BIRNBACH: Okay. We have a motion that  
24 the device not be approved and a second.

25          Is there discussion?

1 DR. VASSILIADES: I'd like to say that  
2 personally I'm very sympathetic to the patients that  
3 this device is trying to treat. A lot of time,  
4 money, effort, blood, sweat, and tears have gone into  
5 this trial on the way of the Sponsor, and I'm not  
6 unsympathetic to that either. I think they've  
7 advanced the field tremendously, and I would hope  
8 there's some way they can find to continue this, but  
9 again, for reasons I stated earlier, I don't think  
10 that we should be approving and playing around with  
11 the labeling to try to continue to do clinical  
12 research, that we have to have a controlled study  
13 through a PMA process that specifically looks at the  
14 group that we're wanting to treat.

15 And so, I would much rather approve a  
16 device and have it out there, but based on the data,  
17 I cannot in good conscience go to my patients and ask  
18 them to participate in this trial given the data.

19 DR. BIRNBACH: It has been moved and  
20 seconded that the PMA P070025 for the Zephyr  
21 Endobronchial Valve System from Emphasys Medical,  
22 Incorporated, be found not approvable.

23 With a show of hands, please indicate if  
24 you concur with the recommendation that the above-  
25 named PMA be found not approvable?

1 (Show of hands.)

2 DR. BIRNBACH: The voting members who are  
3 raising their hands indicating that they concur with  
4 the recommendation, that the above-stated PMA is not  
5 approvable, are Dr. Dominik, Dr. Halabi, Dr. Willsie,  
6 Dr. Li, Dr. Cassiere, Dr. Wilcox, Dr. V, Dr. Loeb,  
7 Dr. Wiswell, Dr. Brunson and Dr. Domino.

8 Please raise your hands if you are  
9 disagreeing with that?

10 (Show of hands.)

11 DR. BIRNBACH: Dr. Marcus and Dr. Ries  
12 oppose the recommendation, that PMA P070025 be found  
13 not approvable.

14 And please raise your hands if anyone is  
15 abstaining from the vote.

16 Since everyone has voted already, I think  
17 that's unlikely.

18 It is the recommendation of this Panel to  
19 the FDA that the PMA P070025 for the Zephyr  
20 Endobronchial Valve System from Emphasys Medical be  
21 found not approvable.

22 This motion was carried 11 to 2, and there  
23 were not abstentions.

24 I would like to ask each Panel member to  
25 explain why he or she voted. Also, I would like to

1 ask the non-voting industry and consumer  
2 representatives for their comments. So, we'll start  
3 with Dr. Domino. I'd like for you to state the  
4 reasons why you voted the way you did.

5 DR. DOMINO: Well, I thought looking at the  
6 risk benefit ratio, I see potential benefit in a  
7 subcategory of patients that weren't well defined,  
8 and certainly the data that we were presented, we do  
9 not have specific data in a large number of those  
10 patients, with looking at fairly limited  
11 effectiveness, with some procedure that is invasive;  
12 yes, the risks are not terrible, but it just didn't  
13 add up to me in this category for all comer type  
14 patients.

15 DR. BIRNBACH: Dr. Domino, and for each of  
16 you that follows, could you please tell the Sponsor  
17 what you believe must be done to make the PMA  
18 approvable.

19 DR. DOMINO: Yes, I'd like to see your data  
20 on the heterogeneous, you know, the CT scanning and  
21 picking in that population who might have a greater  
22 benefit of effect, and looking more specifically at  
23 their -- and I would also like to see perhaps follow-  
24 up safety data for more than one year.

25 DR. BIRNBACH: Dr. Brunson.



1 DR. BRUNSON: I agree with what Dr. Domino  
2 has said. I think that there is promise for this,  
3 and I think there is a subcategory of patients that  
4 you will find benefit in. And I think what you need  
5 to do is tighten up selecting that group, and you may  
6 have already got a good start on that. But based on  
7 what I see, even though the risk seemed to be fairly  
8 small, I still don't see the benefit of it right now  
9 in an approvable manner for me to say that the device  
10 ought to be approved. I think it's headed in that  
11 direction, and I think you need to do a little bit  
12 more work to show us that subcategory of patients  
13 that it will benefit.

14 I would like to see more long-term data  
15 about the sustainability when you select the subset  
16 of patients that you find benefit in.

17 DR. BIRNBACH: Dr. Wiswell.

18 DR. WISWELL: Similar to my colleagues, I  
19 didn't see enough clinical effectiveness for  
20 approving. I would have loved to have approved it  
21 with a number of conditions, but I have to say to  
22 myself, from what Mr. Patel put out, we have to have  
23 substantial clinical effectiveness, and it just  
24 wasn't there. Another randomized control trial, and  
25 I think all of us are sympathetic to these economic

1 times, and when I think all of us here see something  
2 that is really promising and would really like to see  
3 something out there that's helping a part of this  
4 population, right now we can't justify its use. And,  
5 the other thing I'd like to see besides narrowing  
6 down, perhaps again the same highly heterogeneous  
7 population, similar randomized control trial, that  
8 long-term safety data upwards of three years or so.

9 DR. BIRNBACH: Dr. Loeb.

10 DR. LOEB: I'm less concerned with long-  
11 term safety. I just don't believe that's going to be  
12 a real big problem. I think long-term, I can  
13 envision patients who would have devices like this  
14 would have, you know, need for long-term follow-up,  
15 repeated hospitalizations, repeated procedures as  
16 part of what they expect but not in terms of long-  
17 term safety. I don't think that's particularly going  
18 to be the problem.

19 I think that the data presented did not  
20 show an adequate benefit risk ratio but that another  
21 trial, probably more limited in scope with better  
22 patient selection and earlier evaluation that the  
23 devices are placed properly, would have an adequate  
24 risk benefit, but the data's not there. If it were  
25 presented today, I certainly would have voted for it,

1 and as much as I emotionally would like to believe  
2 that that's how it would work, you can't believe  
3 what's going to happen until you have the data. So I  
4 couldn't in good faith vote for approvable with  
5 conditions.

6 DR. BIRNBACH: Dr. Vassiliades.

7 DR. VASSILIADES: I think my comments from  
8 earlier pretty much sum up my feeling. I don't need  
9 to reiterate.

10 DR. BIRNBACH: And do you want to suggest  
11 what you think needs to be done to give approval?

12 DR. VASSILIADES: Yeah. I think with the  
13 data that has been acquired now in terms of further  
14 defining the subgroups to try to do something with  
15 that, whether it's reworking the data, following  
16 those patients longer, or having to do another  
17 clinical trial, which I realize probably financially  
18 is just not doable. That's all I would suggest.

19 DR. BIRNBACH: Dr. Wilcox.

20 DR. WILCOX: I voted for non-approval,  
21 although I believe the Sponsors have addressed an  
22 important clinical problem in a creative and  
23 responsible manner. Unfortunately, the clinical  
24 problem and the proposed treatment are so complex  
25 that no clear-cut resolution of the issues was

1 achieved by this clinical trial. I do not believe  
2 they have provided reasonable assurance that the use  
3 of this device is broadly applicable clinically.

4 I don't have a lot to add or anything to  
5 add to suggestions except in terms of tightening it  
6 up, perhaps fewer centers. That must have been  
7 really hard, with the large number of centers to  
8 control patient selection and follow-up. So --

9 DR. BIRNBACH: Dr. Cassiere.

10 DR. CASSIERE: I voted non-approval. I  
11 think what needs to be done is there needs to be  
12 niche patient population clearly defined, and then  
13 looking at the outcomes of those patients after a  
14 year, especially given the infectious complications  
15 and the fact that you're decompressing a lung in a  
16 patient who is at increased risk for pneumonia and  
17 COPD exacerbations.

18 DR. BIRNBACH: Dr. Li.

19 DR. LI: It's probably of little  
20 consequence or consolation to you, but I thought the  
21 study actually was very clever, and I was most  
22 impressed actually by the dedication and honesty and  
23 actually the compassion of the presenters. So it  
24 actually kind of breaks my heart to actually vote  
25 against this. But for the reasons that we just

1 specified for, I voted against it.

2 I'll just speak from the device side. The  
3 thing that seemed to be missing for me was really  
4 kind of the underpinning of why this is working. You  
5 know, the original hypothesis appeared to be volume  
6 reduction, but the correlation of volume reduction to  
7 FEV<sub>1</sub> and the six-minute walk were poor at best. And  
8 there was a hypothesis proposed, it's maybe volume  
9 redistribution. Well, that's fine, but that's now  
10 yet another hypothesis.

11 So to me the no vote was really a  
12 combination of clinical results that really could  
13 have been a lot better but that was actually  
14 reinforced by the kind of lack of understanding of  
15 how these devices are actually performing. And then  
16 superimposed upon that, I learned from several of you  
17 today that, you know, the correlation of even FEV<sub>1</sub>  
18 with actual patient activity may not be as strong as  
19 we would like it to be, and the FEV<sub>1</sub> was probably  
20 your best clinical results. So all of that really  
21 kind of left me personally with kind of nowhere to go  
22 but to vote the way I did.

23 DR. BIRNBACH: Dr. Willsie.

24 DR. WILLSIE: I voted no also for the  
25 reasons that have been identified, and what I would

1 like to see is a new study looking at newly defined  
2 population that's most likely to respond using  
3 lessons that you've learned regarding the fissure,  
4 regarding the lobe selection, and particularly  
5 looking at clinical significance for your outcome,  
6 and if anyway to abolish the placebo effect, I think  
7 that would be valid as well.

8 DR. BIRNBACH: Dr. Ries.

9 DR. RIES: Well, I voted against not  
10 approval. I agree with the other Panel members that  
11 the data presented today, in terms of effectiveness  
12 and the balance of effectiveness and safety are not  
13 compelling, but I think I was focused more on the  
14 term reasonable, and I think there is a signal there.  
15 I think the Sponsors are really well on their way  
16 into finding the appropriate use of this in terms of  
17 the heterogeneity and the lobar exclusion, and I  
18 think there clearly is a modest effect here that I  
19 think outweighs the potential, very limited safety  
20 concerns. So I voted against non-approval at this  
21 point.

22 DR. BIRNBACH: Dr. Marcus.

23 DR. MARCUS: I agree with Dr. Ries. I  
24 voted against non-approval, and I think that we have  
25 lots of things we do that we have a certain degree of

1 uncertainty. I still don't know why pulmonary  
2 rehabilitation works and improves many outcomes  
3 despite the fact that it doesn't improve pulmonary  
4 function. And I think there was enough evidence to  
5 show that there was improvement, albeit perhaps in a  
6 select group of patients, and that the safety did not  
7 seem to be a major concern. So I think there still  
8 is a future for this, and perhaps more studies need  
9 to be done, if that's something that can be  
10 accomplished financially.

11 DR. BIRNBACH: Dr. Halabi.

12 DR. HALABI: I voted for the device not to  
13 be approved. As a statistician, I do appreciate the  
14 challenges in the conduct and analysis of a trial  
15 using that specific endpoint, but nevertheless,  
16 because of issues of a large proportion of missing  
17 data, post-hoc window extension, multiplicity of  
18 analysis, because of all these issues that really  
19 threatened the validity and reliability of the  
20 results, and I would have liked to see perhaps a  
21 larger trial with smaller number of missing data.

22 DR. BIRNBACH: Dr. Dominik.

23 DR. DOMINIK: Obviously I voted to not  
24 approve the device, but I think that perhaps if you  
25 are right, that the high heterogeneity subgroup is

1 more likely to have the benefit, and if there are  
2 some changes that could be made in the procedures for  
3 how the device is placed and followed up immediately  
4 that might also help to improve the effectiveness,  
5 then it may not take as large of a study to  
6 demonstrate the effect in that group if that has  
7 truly a greater effect. And a new trial showing  
8 effectiveness more definitively in that subgroup plus  
9 safety data from the current trial, I think together  
10 would contribute to the overall evaluation of safety  
11 and effectiveness. So I don't think you would  
12 necessarily need to study as many patients if you  
13 really do have a group that has a higher chance of  
14 benefiting if that's any consolation.

15 DR. BIRNBACH: I'd like to ask your non-  
16 voting industry and consumer representatives for  
17 their comments. Ms. Petersen.

18 MS. PETERSEN: It's true I did not vote. I  
19 think this afternoon there was general consensus that  
20 the risks and benefits were not in alignment, and I  
21 appreciate your voting this afternoon not to approve,  
22 resisting the temptation to use the approval process  
23 to facilitate the research that I think everyone  
24 would like to see and the positive results to help  
25 patients. In the long-term, getting the additional



1 research we need to understand who we can help and  
2 what the benefits are, I think, is in the public's  
3 best interest. Thank you.

4 DR. BIRNBACH: Mr. Osborn.

5 MR. OSBORN: Thank you, Mr. Chairman. It  
6 would seem that there was a consensus on the Panel  
7 that there was adequate safety. I personally would  
8 have liked to have seen an analysis of the data  
9 breaking apart at the six-month point, those patients  
10 that had leakage from those that didn't, because I  
11 think that might have correlated with those that had  
12 an effect and didn't, but that wasn't part of the  
13 data that was presented to us.

14 Clearly in terms of conducting further  
15 trials, it's very important to focus on the right  
16 patient, the proper placement of the valve, and  
17 perhaps most importantly the complete blockage of the  
18 desired lobe. I think there was also consensus that  
19 the labeling needed work and that a training module  
20 would need to be created to reflect some of that.

21 For all of those seriously ill COPD  
22 patients, clearly this is a disappointment because  
23 they have very few treatment options, and I'm sure  
24 that those patients would have liked to have seen a  
25 device that was safe and effective to give them some

1 chance of a better short-term outlook on life.

2 Thank you.

3 DR. BIRNBACH: I'd like to thank the Panel,  
4 the FDA and the Sponsor. Dr. Lin, do you wish to say  
5 anything?

6 DR. LIN: Yeah, on behalf of FDA, I want to  
7 thank the Panel for this hard work. I know this is a  
8 very difficult PMA to discuss, and I also wanted to  
9 thank the Sponsor for working very -- with the  
10 Sponsor, and I'm sure we will still have a lot of  
11 opportunity to work together. Thank you.

12 DR. BIRNBACH: The December 5, 2008 meeting  
13 of the Anesthesiology and Respiratory Therapy Device  
14 Panel is now adjourned. Thank you.

15 (Whereupon, at 4:30 p.m., the meeting was  
16 concluded.)

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## C E R T I F I C A T E

This is to certify that the attached proceedings  
in the matter of:

ANESTHESIOLOGY AND RESPIRATORY THERAPY DEVICES PANEL

December 5, 2008

Gaithersburg, Maryland

were held as herein appears, and that this is the  
original transcription thereof for the files of the  
Food and Drug Administration, Center for Devices and  
Radiological Health, Medical Devices Advisory  
Committee.

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TIMOTHY J. ATKINSON, JR.

Official Reporter

Free State Reporting, Inc.  
1378 Cape Saint Claire Road  
Annapolis, MD 21409  
(410) 974-0947