

1 these subgroups, once again. In terms of the leg  
2 pain, the severe, the patients that had severe back  
3 pain, in terms of how many patients did we measure  
4 leg pain in, in this group? It was 54 percent of the  
5 CC population. It's not a small group. And in that  
6 54 percent of the CC population, you can see we had a  
7 very nice reduction, 0.0123. It's not a chance  
8 event.

9           And in terms of back pain, once again,  
10 that's 61 percent of the CC population. Not a small  
11 population. And, of course, both those numbers are  
12 significant in the ITT and in the CC. So if we  
13 simply talk about patients with severe back pain, if  
14 we talk about moving forward -- patients with severe  
15 back pain, providing this device to them, it's a  
16 large percentage of the patients, and you can see  
17 there is indeed confidence that these patients will  
18 benefit from this product. Next slide, please?

19           In terms of the successful study, treatment  
20 magnitude effect, once again, I'd like to point out  
21 that they're very large treatment effects, in terms  
22 of the magnitude, based on the same populations that  
23 I alluded to a moment ago. In terms of the entire  
24 population, taking out severe back pain, we're not  
25 talking about 1 or 2 percent. These numbers are

1 large. 11 to 14 percent of all patients -- you can  
2 see there, in fact, is a very nice magnitude of  
3 effect in all patients. We stressed the 34 percent,  
4 obviously, because it was over the request by FDA for  
5 33, but looking at all patients, indeed, there is a  
6 very nice treatment effect, in terms of the size of  
7 the benefit. Next slide?

8           And so, in ending, I think it is very  
9 important to consider that, indeed, this is a very  
10 safe product. It's been established around the  
11 world, and it's clear in our own pivotal study. This  
12 is an unmet need. A number of the Panelists have  
13 addressed this. The clinicians here have addressed  
14 this. And we just don't have anything else.

15           So we think that there is no FDA-approved  
16 surgical adjuvant that's indicated for the reduction  
17 of pain and neurological symptoms in lumbar surgery.  
18 We think we've shown in a straightforward way that,  
19 in fact, Oxiplex fulfills this need.

20           Thank you, Dr. Mabrey for your time.

21           DR. MABREY: And thank you. Before we  
22 proceed to the vote, I would ask Ms. Connie  
23 Whittington, our consumer representative, and  
24 Ms. Elisabeth George, our industry representative, if  
25 they have any additional comments.

1 Ms. Whittington?

2 MS. WHITTINGTON: In representing the  
3 patient, we certainly need something to help reduce  
4 pain both in the immediate postoperative and long  
5 term postoperative period. And this product does, in  
6 some populations, it seems, has some hope to do that.  
7 And, certainly, the volume of patients that have been  
8 done, that have utilized this device internationally  
9 would represent that, and I appreciate the  
10 information that was brought forward about that.

11 There's still some issues that I had today,  
12 as you all have heard about, about the studies that  
13 were done. There is potential for it in the future.  
14 I would encourage you to continue to focus on the  
15 patient's outcome and your LSOQ as your quality  
16 metric and measurement of effectiveness. I think  
17 that that's critical to development of any product or  
18 project.

19 DR. MABREY: Thank you. Ms. George?

20 MS. GEORGE: I think that the Sponsor just  
21 tried to clarify many of the open questions that we  
22 brought up and that all of you brought up regarding  
23 the analysis of the data of all versus the severe  
24 back pain patients. And I think that along with that  
25 analysis, as well as the earlier gentleman that spoke

1 from Belgium, the many published papers that have  
2 been identified in the safety and effectiveness  
3 data -- I believe there were 9 or 10 different papers  
4 with more than 300 patients each, you know? And the  
5 100,000 patient use I think clearly shows us the  
6 safety.

7 I think that the fact that it is --  
8 efficacy has also been shown, I believe, through  
9 those papers, based on the information that's  
10 included there. So I think that we have enough data  
11 to show us that it is a safe and effective product.  
12 I think that if there is any question on people's  
13 part, that they want more data, then I think the  
14 post-market surveillance could be evaluated, the  
15 study. But I also would voice that the standard  
16 post-market surveillance systems that are in place in  
17 the U.S., as well as internationally, in China,  
18 Japan, Canada, and the EU, there is sufficient data,  
19 and the expectation is, as a medical device  
20 manufacturer with certified quality systems and  
21 registered quality systems, it is our requirement to  
22 be monitoring that data consistently and taking  
23 severe actions as appropriate.

24 DR. MABREY: Thank you. We are now ready  
25 to vote on the Panel's recommendation to the FDA for

1 this PMA.

2 Panel members, I would ask that you refer  
3 to the voting options flow chart in your folders, the  
4 multicolored chart, which has evolved over the last  
5 several Panel meetings.

6 DR. MABREY: Dr. Jean will now read the  
7 Panel Recommendation Options for Pre-Market Approval  
8 Applications.

9 Dr. Jean?

10 DR. JEAN: The Medical Device Amendments to  
11 the federal Food, Drug and Cosmetic Act, as amended  
12 by the Safe Medical Devices Act of 1990, allows the  
13 Food and Drug Administration to obtain a  
14 recommendation from an expert advisory panel on  
15 designated medical device pre-market approval  
16 applications that are filed with the Agency.

17 The PMA must stand on its own merits, and  
18 your recommendation must be supported by safety and  
19 effectiveness data in the application or by  
20 applicable publicly available information. The  
21 definition of safety, effectiveness and valid  
22 scientific evidence are as follows.

23 Safety, as defined in 21 C.F.R.  
24 860.7(d)(1). There is reasonable assurance that a  
25 device is safe when it can be determined, based upon

1 valid scientific evidence, that the probable benefits  
2 to health from use of the device for its intended  
3 uses and conditions of use, when accompanied by  
4 adequate directions and warnings against unsafe use,  
5 outweigh any probably risks.

6           Effectiveness, as defined in 21 C.F.R.,  
7 Section 860.7(e)(1). There is reasonable assurance  
8 that a device is effective when it can be determined,  
9 based on valid scientific evidence, that in a  
10 significant portion of the target population, the use  
11 of the device for its intended uses and conditions of  
12 use, when accompanied by adequate directions for use  
13 and warnings against unsafe use, will provide  
14 clinically significant results.

15           Valid scientific evidence, as defined in 21  
16 C.F.R., Section 860.7(c)(2). Valid scientific  
17 evidence is evidence from well-controlled  
18 investigations, partially controlled studies, studies  
19 and objective trials without matched controls, well-  
20 documented case histories conducted by qualified  
21 experts, and reports of significant human experience  
22 with a marketed device, from which it can fairly and  
23 responsibly be concluded by qualified experts that  
24 there is reasonable assurance of safety and  
25 effectiveness of the device under its conditions of

1 use. Isolated case reports, random experience,  
2 reports lacking sufficient details to permit  
3 scientific evaluation, and unsubstantiated opinions  
4 are not regarded as valid scientific evidence to show  
5 safety or effectiveness.

6 Your recommendation options for the vote  
7 are as follows:

8 Approval. If there are no conditions  
9 attached.

10 Approvable with conditions. The Panel may  
11 recommend that the PMA be found approvable subject to  
12 specified conditions, such as physician or patient  
13 education, labeling changes or a further analysis of  
14 existing data. Prior to voting, all of the  
15 conditions should be discussed by the Panel.

16 Not approvable. The Panel may recommend  
17 that the PMA is not approvable if the data do not  
18 provide a reasonable assurance that the device is  
19 safe or the data do not provide a reasonable  
20 assurance that the device is effective under the  
21 conditions of use prescribed, recommended, or  
22 suggested in the proposed labeling.

23 Following the voting, the Chair will ask  
24 each Panel member to present a brief statement  
25 outlining the reasons for his or her vote.

1 DR. MABREY: Are there any questions from  
2 the Panel about these voting options before I ask for  
3 a main motion on the approvability of the PMA?

4 (No response.)

5 DR. MABREY: Is there a motion for either  
6 approval, approvable with conditions, or not  
7 approvable from the Panel? Dr. Hanley?

8 DR. HANLEY: Mr. Chairman, it is my  
9 understanding that the PMA must stand on its own  
10 merits with regard to safety and effectiveness data  
11 in the application or from publicly available  
12 information. I do believe there is reasonable  
13 assurance that the device is safe. While it is  
14 possible that this device may be effective in certain  
15 subgroups, the data did not provide a reasonable  
16 assurance that the device is effective under the  
17 conditions of use prescribed, recommended, or  
18 suggested in the proposed labeling.

19 Hence, I propose the motion that the PMA  
20 for Oxiplex by FzioMed is not approvable.

21 DR. BLUMENSTEIN: Second.

22 DR. MABREY: And it's been seconded. Let  
23 me switch over to my non-approvable.

24 It has been moved and seconded that the PMA  
25 P070023 for the FzioMed Oxiplex/SP gel be found not



1    approvable.  With a show of hands, please indicate if  
2    you concur with the recommendation that the above-  
3    named PMA be found not approvable.  Keep in mind that  
4    those members who are raising their hands are  
5    indicating that they concur with the recommendation  
6    that the above-stated PMA is not approvable.

7                Let me back up one moment.  We need to have  
8    discussion on the motion before we can vote.

9                Is there any discussion on the motion?

10               (No response.)

11               DR. MABREY:  Not seeing any hands for  
12    discussion, we'll move on to voting.  With a show of  
13    hands, indicate if you concur with the recommendation  
14    that the above-named PMA be found not approvable.  
15    Keep them up while I check.  Okay.  Thank you.

16               The voting members who are raising their  
17    hands indicating that they concur with the  
18    recommendation that the above-stated PMA is not  
19    approvable are Dr. Hanley, Dr. Horlocker, Dr. Rao,  
20    Dr. Evans, and Dr. Blumenstein.

21               DR. MABREY:  With a show of hands, please  
22    indicate if you oppose the recommendation that PMA,  
23    P070023 be found not approvable?  Okay.

24               The voting members who are raising their  
25    hands indicating that they are opposed with the

1 recommendation that the above-stated PMA is not  
2 approvable are Drs. McCormick and Sang.

3 DR. MABREY: I don't think anyone's  
4 abstaining from the vote.

5 It is the recommendation of this Panel to  
6 the FDA that the PMA P070023 for the FzioMed Oxiplex  
7 SP gel be found not approvable.

8 The motion carried 5 to 2 with no  
9 abstentions.

10 DR. MABREY: I will now ask each Panel  
11 member to state the reason for his or her vote,  
12 starting with Dr. Hanley.

13 DR. HANLEY: I think I explained those  
14 earlier and in the proposed motion. I think this  
15 material is safe, and I think it possibly is  
16 effective in certain subgroup of patients or possibly  
17 can be, but I think the statistical analysis does not  
18 prove superiority of this over a control of no  
19 therapy in the surgical group. I think the major  
20 issue here is proving the primary endpoint. And we  
21 need to base our decisions on, first, absolute proof,  
22 statistically, of the primary endpoint, and then  
23 secondary analysis of the secondary endpoints and  
24 sort through those.

25 So while I, deep down, as a spine surgeon,

1 want to approve this stuff, the statistics mandate  
2 that I don't even if I believe the Sponsor's  
3 statistical analysis completely. I have to reject  
4 this based upon the training and the principles of  
5 the FDA-approval process. You can't pick out little  
6 things. It either is or it isn't. And it's  
7 statistically significant and clinically significant  
8 or it's not.

9           So I think there is a need for something  
10 like this, and it may well be that in certain  
11 patients it can be helpful. But I'm obligated not to  
12 vote for something that's not statistically validated  
13 through the PMA process. You can't get around that.

14           DR. MABREY: Thank you. Dr. Horlocker?

15           DR. HORLOCKER: It's hard to come up with  
16 something so beautifully stated to even add to that.  
17 I, too, agree that we have enough data to say that  
18 this is safe, but as far as efficacy, it may be in  
19 some patient populations somewhat helpful. And I  
20 think we need to actually prove that both  
21 statistically and then determine if there is even a  
22 clinical relevance. We don't even know if there is a  
23 statistical difference if that's going to be a  
24 clinically relevant difference, too. So I think  
25 there are two things that the Sponsor has to do.

1           And, as Dr. Hanley stated so beautifully,  
2 that start with a primary endpoint and then go on  
3 from there to the secondary endpoints once you've  
4 proven that you do have that efficacy.

5           DR. MABREY: Thank you. Dr. Rao?

6           DR. RAO: I believe that the product is  
7 going to be safe. However, the lack of a statistical  
8 significance using the primary and secondary  
9 effectiveness endpoints is what led me to not approve  
10 the product.

11           In addition, I have concerns regarding the  
12 randomization process, deviation from the list of  
13 exclusions.

14           And, finally, my biggest concern is the  
15 lack of a clear basis of physiologic efficacy. We  
16 ought to be a few decades away from using devices  
17 with no clear or proven basis of efficacy.

18           DR. MABREY: Thank you. Dr. McCormick?

19           DR. McCORMICK: So I didn't vote for the  
20 non approvable motion, and the reason is that -- I  
21 had trouble with the study. It's a very highly  
22 selective group, very unusual group in the high  
23 incidence of low back pain, severe low back pain.  
24 They call this a challenging group. This represented  
25 the majority, which I just don't see that. I think

1 most surgeons don't see that either. The improvement  
2 that was seen was small.

3 But, on the other hand, there was no harm  
4 with the treatment. And I think that there is a, if  
5 not scientifically valid, at least strongly suggested  
6 by this that there might be some patient population  
7 in whom there may be some benefit for this treatment.  
8 And as a practicing surgeon who looks these patients  
9 in the eyes on a weekly basis, I'd like to have that  
10 option open to me.

11 I want to say I would not have voted for to  
12 approve it but would have voted for approval with  
13 conditions. And those conditions would have been  
14 that the proposed indication, which would have been  
15 put on the package or the indications would have to  
16 be very narrowly constructed to reflect this highly  
17 select group and this unique patient population with  
18 severe low back pain. Under those circumstances, I  
19 would have voted for approval.

20 DR. MABREY: Dr. Evans?

21 DR. EVANS: I think I agree with what was  
22 eloquently stated by Dr. Hanley. My concern is that  
23 the Type 1 error rate I believe has been compromised,  
24 and I don't -- and I'm concerned that it's been  
25 compromised in enough -- in a way that we can't

1 quantify it. And, therefore, I don't really have  
2 confidence in -- you know, I'm worried about the  
3 false positive rates.

4 I was not particularly concerned with the  
5 safety data. It looks like a very safe device, and  
6 this does not rule out the possibility of  
7 effectiveness, but I do believe that we've lost  
8 control of the error rates in such a way that we're  
9 not quite sure where we are. And so I think we need  
10 more data.

11 DR. MABREY: Thank you. Dr. Sang?

12 DR. SANG: I actually agree with all of the  
13 comments. The study was methodologically flawed. It  
14 was unblinded. It was uncontrolled. And the data  
15 analysis plan was questionably not consistent with  
16 the FDA's recommendations.

17 And, despite that, I voted against not  
18 approving because I do believe this is safe. I see  
19 patients with failed back. And I'm hoping that -- I  
20 had been hoping to vote approvable with conditions.  
21 And the condition would be to then demonstrate in a  
22 systematic way with a completely new design and new  
23 outcomes in a double-blinded, not single-blinded, and  
24 controlled fashion with an appropriate control group  
25 on effect.

1           And, you know, once again, what tipped me  
2 over the edge was the safety profile, which I think  
3 the data from Europe probably support. We did not  
4 hear enough of the details, but I'm making the  
5 assumption that this has been shown to be safe in  
6 over 100,000 Europeans, or 100,000 outside the U.S.

7           So, thank you.

8           DR. MABREY: And Dr. Blumenstein?

9           DR. BLUMENSTEIN: I voted for not  
10 approvable. I think we're going to have to teach  
11 Dr. Hanley the statistician secret handshake because  
12 he seems to be moving towards qualification for that.

13           The reason that I voted not approvable was  
14 that for the analyses for which I could feel  
15 confident about knowing the false positive  
16 probability, there was no efficacy. And for the  
17 analyses for which I was uncertain and quite  
18 concerned about, the false positive probability,  
19 while those were suggestive of an effect, I couldn't  
20 find a way to approve it.

21           DR. MABREY: Thank you. Since the Panel  
22 has voted to recommend that the PMA is not  
23 approvable, as part of a general discussion as an aid  
24 to the FDA and also to the Sponsor in future  
25 applications, I would now ask each Panel member,

1 starting with Dr. Hanley, what would it take? And  
2 this is a discussion.

3 DR. HANLEY: Well, I'm frequently asked  
4 about these studies, and study design is where you  
5 win or lose in these things. And with something like  
6 this, where there is no effective treatment, a  
7 superiority study is obviously the best way to go.

8 I think getting an adequate sample size,  
9 controlling your study population through the sites a  
10 little tighter can often give you better information.  
11 The issue as a surgeon, the whole question is here  
12 can you reduce lower extremity radiculitis  
13 discasthetic pain in a nerve root operated on thought  
14 to be related to postoperative adhesions, so called  
15 scar -- tethered root. That's the question. So  
16 that's the one that needs to be addressed for this  
17 particular problem.

18 Now, I think the average orthopedic or  
19 neurosurgical spine surgeon thinks the biggest  
20 problem in spine surgery is regular old discogenic  
21 back pain. That's the tough thing. But that's a  
22 whole different kettle of fish. You start mixing  
23 those two up and you can get into trouble.

24 I think there's a not unreasonable chance  
25 this stuff might work. But I don't think there are



1 enough numbers. I think there was too much  
2 variability, and I think the thing got mucked up in a  
3 statistical conundrum, which I think was not  
4 understandable. Not that I couldn't -- I definitely  
5 couldn't understand it, but I also believe that I  
6 will never be able to understand it. And I think  
7 there's a problem. Keep it simple. Keep it clean.  
8 Keep your study and your control groups clean. Get  
9 an adequate number of patients. Don't overdo  
10 yourself with too many study sites doing too few  
11 patients.

12 DR. MABREY: Thank you. Dr. Horlocker?

13 DR. HORLOCKER: Well, I would just add kind  
14 of a comment to what Dr. Rao said earlier. Without  
15 knowing what the mechanism of this is, it's hard to  
16 know exactly how to construct a study to know what  
17 your patient population should actually be, and it  
18 would be wonderful if you had some of the  
19 mechanistic -- how it works, so then you know how you  
20 could evaluate its efficacy or not.

21 Other than that, just from the standpoint  
22 of larger numbers and keeping it to more of a clear  
23 and simple statistical analysis that follows what was  
24 recommended and then a secondary analysis if that's  
25 justified by the primary analysis.

1 DR. MABREY: Dr. Rao?

2 DR. RAO: I think your pilot study may have  
3 been on the right track. I think you ought to focus  
4 on peridural fibrosis and the potential leg pain that  
5 results postoperatively. That's the only clear  
6 rationale that exists with peridural fibrosis, relief  
7 or causation of leg pain. So your study should be  
8 geared towards leg pain.

9 Postoperatively, I would exclude any  
10 potential structural causes of leg pain besides  
11 peridural fibrosis, and then you have a clean sample  
12 of patients with just peridural fibrosis. And then  
13 you assess whether or not the use of this device  
14 helped and relieved their leg pain. That would be  
15 the cleanest study. You have to have a clear basis  
16 of efficacy, and then you have to have a clean sample  
17 without associated structural pathology that may be  
18 contributing to their postoperative leg pain.

19 It would help if you had additional  
20 variables where you could rule out patient selection  
21 or psychological factors and get a cleaner sample  
22 still. Thank you.

23 DR. MABREY: Dr. McCormick?

24 DR. McCORMICK: Well, the one thing, at the  
25 very least, listening to the other Panel members,

1 what this study generated was a very compelling  
2 hypothesis, to suggest that in a very distinct  
3 patient population there may be a very clear-cut  
4 benefit to this treatment. And, to me, efficacy  
5 overrules generalizability. And so I think short of  
6 doing a new trial, where you only select patients  
7 with severe back pain, I just can't imagine how any  
8 other study is going to get through this Panel, based  
9 on a heterogeneous -- patient population. So that's  
10 the only thing I would suggest.

11 DR. MABREY: Thank you. Dr. Evans?

12 DR. EVANS: I guess what would convince me  
13 is a randomized trial in people with high back pain,  
14 stratify randomization on important potential  
15 confounders, control for those covariates in design  
16 and make sure that you control error rates in  
17 analysis and so that, you know, you know exactly what  
18 your error rates are. You know, I think, you know,  
19 any analyses you do is put within context of  
20 everything else you do. And so I guess that's, you  
21 know, what would be my recommendation.

22 DR. MABREY: Dr. Sang?

23 DR. SANG: I do think that there are pre-  
24 clinical data to support your hypothesis that this  
25 reduces peridural fibrosis in the long term or

1 perhaps other similar barriers, types of barriers. I  
2 think that these are such difficult studies to run.  
3 I would recommend, if I were advising you, to first  
4 do a small bridging study, a proof-of-concept study  
5 in a highly select group of subjects with  
6 radiculitis. I would review -- I would run this in a  
7 very small number of sites. I would have your  
8 investigators review records, review MRIs. And,  
9 frankly, I would exclude those with significant  
10 compression of the nerve root.

11 But, anyway, I would recommend a bridging  
12 study. I might recommend even a small amount of  
13 local anesthetic in a selected nerve root block to  
14 demonstrate that it's clean radiculopathy. But some  
15 small study to show proof-of-concept.

16 And then, as I was running this, I would  
17 design -- plan to move forward with a pivotal trial,  
18 assuming that that study gave you a go. And I think  
19 your pivotal trial has to be -- it has to be double-  
20 blinded, randomized controlled. It has to  
21 incorporate a treatment, a real placebo, whether it  
22 be an injection of saline with -- not an injection,  
23 but an application of saline instead of your gel.  
24 It's not ideal. I'm sure there is something you can  
25 figure out. But the surgeons have to be blinded.

1 The surgeons are making decisions. And surgeons,  
2 with high volumes, of course there's a possibility  
3 that they may not know who got what. But the chance  
4 is good that surgeons can remember in whom -- for  
5 whom they injected an exciting new gel.

6 At any rate, I would either stratify it by  
7 pain intensity, by pain severity, or I would exclude  
8 patients without sufficient pain, you know, patients,  
9 for example, who have at least a 5 out of 10 or on  
10 the Likert Scale, or a certain number on your  
11 composite scale, or whatever your primary outcome is  
12 chosen. And I would incorporate some of the more  
13 standard pain measures as secondary endpoints. I  
14 would incorporate measures that have shown to have  
15 treatment responses in other -- even though they're  
16 pharmacological trials, they're at least sensitive to  
17 treatment effects. I would consider including an  
18 intensity measure, another -- well, I like the BPI  
19 because it's a composite measure of intensity and  
20 function and it looks at intensity in different ways,  
21 but you can decide what pain measure to use, also  
22 function and activity measures that you already have  
23 incorporated and you know are important. I would  
24 consider a responder analysis. That would  
25 potentially help you in your analyses.

1 I would certainly look at opioid use soon  
2 after -- every point following surgery and also other  
3 concomitant medication use because it is the standard  
4 of care in these patients who have persistent pain  
5 following a laminectomy to -- or discectomy to be put  
6 on any number of anticonvulsants or antidepressants.

7 So I would include all of those potential  
8 confounders that could have served as one of many  
9 potential sources of variability that could have  
10 affected your treatment effect in this study. Of  
11 course, a disability instrument that you've already,  
12 you've already, you've already proposed.

13 So, you know, I think these are really  
14 difficult studies to run successfully. And,  
15 therefore, I think a bridging study to show proof-of-  
16 concept would be very, very useful for you.

17 DR. MABREY: Dr. Blumenstein?

18 DR. BLUMENSTEIN: I've said a lot already  
19 that hint at suggestions towards perhaps a new study.  
20 I would like to emphasize that you've heard from  
21 several people, and it took something that I kind of  
22 wondered about myself, in the idea of double-blinding  
23 the study seems to bother more than just me. The  
24 other thing I would mention is that whatever primary  
25 endpoint is chosen, I think it should be more ITT-

1 friendly.

2 DR. MABREY: Thank you. I'd also like to  
3 invite comments from Ms. Whittington and Ms. George.

4 MS. WHITTINGTON: I don't have any further  
5 comments. I've already offered my thoughts.

6 DR. MABREY: Ms. George?

7 MS. GEORGE: I guess I would just like to  
8 say as a manufacturer, first, I want to thank you all  
9 for your -- on behalf of industry for your input and  
10 your insights. It's been very interesting listening  
11 to the suggestions of structuring the study, et  
12 cetera, since that, in fact, was done in partnership  
13 with the Sponsor and the FDA and planned.

14 And it's also interesting listening to the  
15 comment about having many more patients or  
16 stratifying the data and focusing the release,  
17 because other Panels I've been on have been the  
18 opposite, where a Sponsor has come in with a much  
19 narrower intended use or indications to use. It gets  
20 rejected for the inverse reason that it's too narrow  
21 a use and it doesn't -- doctors want to have more  
22 patients be able to use it.

23 I also think that what we need to remember  
24 is, is that hindsight is 20/20. So all the proposals  
25 and suggestions that you all made, I believe that the

1 Sponsor mentioned that the study was developed many  
2 years ago, and so as time passes, also clinical  
3 practice changes. It's very difficult to get  
4 patients.

5           And so those are all the things that as a  
6 manufacturer that we have to try to, you know, we try  
7 to balance. We want to make sure that we're making  
8 the largest population. We want to make sure that  
9 we're meeting the intended use, obviously partnering  
10 with the FDA to ensure that it's safe and efficacy is  
11 met.

12           But I think the other thing that we want to  
13 remember is, is that there's at least 100,000  
14 patients outside of the U.S. that are getting  
15 potentially better medical care made available to  
16 them than we're affording our patients. So that's  
17 it.

18           DR. MABREY: Thank you. Well, I would like  
19 to -- oh, well, I was going to thank the Panel first.

20           Dr. Hanley, Dr. Horlocker, Dr. Rao,  
21 Dr. McCormick, Dr. Evans, Dr. Sang, Dr. Blumenstein,  
22 Ms. Whittington, Ms. George, thank you for all the  
23 time that you've put in this.

24           Dr. Jean, thank you for the organization  
25 that you've provided for today's Panel.



1 I would like to thank the FDA for their  
2 presentations, and I would like to thank the Sponsor  
3 as well for putting this together and educating us on  
4 this product and on this study.

5 Mr. Melkerson, does the FDA wish to say  
6 anything or add anything?

7 MR. MELKERSON: Just echoing the thanks  
8 both to the Sponsor and their presentation and their  
9 efforts, and as well as the staff, and as well as I  
10 would also like to thank the Panel; and just, again,  
11 recognizing Ms. Whittington's and Ms. Adam's efforts  
12 for the Panel, and we hope to see them in other  
13 avenues and venues.

14 DR. MABREY: Well, then, the July 15, 2008  
15 meeting of the Orthopedic and Rehabilitation Devices  
16 Panel is now adjourned.

17 (Whereupon, at 5:00 p.m., the meeting was  
18 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:

ORTHOPEDIC AND REHABILITATION DEVICES PANEL

July 15, 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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