

1 Well, we've covered a wide range of topics.  
2 My task is try to see if I can pull any of these  
3 together in some coherent way. What I will try to do  
4 is to summarize different areas. A number of these  
5 are going to segue nicely into the specific questions  
6 that the Committee has been asked by the FDA to  
7 address.

8 After I summarize, maybe we will have a  
9 five-minute stretch break, not a break-break. Don't  
10 leave the room, but maybe get up and stretch after I  
11 finish and then we will start right back up.

12 What I've tried to do is hearing the  
13 different comments is to see if there are some general  
14 themes. That may be helpful for us to think about.  
15 If for some reason I have left out your comment or if  
16 I've misunderstood, by all means I'm willing to be  
17 corrected.

18 One of the topics that we heard discussed  
19 was the representativeness of the sample that is  
20 included in these particular trials. In fact, will  
21 they generalize beyond the sample of who is being  
22 included? Related to that in one way is also, how

1 are we looking at the aggregate trials?

2           When we talk about meta-analysis versus when  
3 we look at, as Dr. Stine said, the slides that had  
4 three different comparisons but were on the same slide  
5 we naturally want to go from one to the other when in  
6 fact these are different studies with different  
7 durations and different populations to some extent.

8           A second area we mentioned in passing was  
9 about the comparator drug, diclofenac, versus the  
10 alternatives, was this the best alternative? Did this  
11 alternative set them up to have a certain result  
12 occur? What are the other issues related to that  
13 particular choice? What were the implications for the  
14 results that they received?

15           A third area that we talked about was  
16 cardiac risk particularly for naproxen and GI effects  
17 and the balance of, let's use NNT or NN save, if you  
18 want to use that concept.

19           If we want to truly try to balance the  
20 safety, efficacy, and effectiveness with all of these  
21 drugs having some potential negative effects but also  
22 some positive effects, how do they balance out? Can

1 looking at absolute risk be one way of trying to help  
2 us get a better handle on that? Whether we convert it  
3 to dollars or not may not be the issue for this  
4 particular Committee; although, that could be looked  
5 at.

6 A fourth topic was the lingering concern  
7 about the 30 milligrams. We really didn't see  
8 head-to-head studies that allowed us to know much  
9 about what can we say about 30 milligrams other than  
10 on the efficacy it appeared that 30 milligrams was as  
11 good, if you want to use that term, as what we saw for  
12 60, but there is no direct head-to-head comments.

13 In light of the last comment by Dr. Day, how  
14 will a physician know when it's time to move somebody  
15 up? If the efficacy for 30 is equivalent to the  
16 efficacy of 60, then when would you ever decide to  
17 move up the potential dose response negative effects  
18 that we saw?

19 Last, next to the last point, and I'm trying  
20 to collapse these in different ways. Who really gets  
21 helped? The whole issue of those individuals that  
22 don't respond well to Treatment X, do we have any data

1 to support the fact that they might do well with  
2 Treatment Y? It is very possible they might do well  
3 with any of the alternatives that are available.  
4 There were no, until I heard otherwise, direct  
5 head-to-head comparisons looking at that, no crossover  
6 studies.

7           However, Study 960 -- I think that was the  
8 number that I heard on there, I got the numbers  
9 slightly off -- at least was the kind of study we  
10 might have wanted to see if it had been appropriately  
11 designed. I wanted to say the absence of evidence is  
12 not evidence of absence.

13           Had we not heard about that study, we were  
14 just going to say, "Well, we don't know." That  
15 preliminary study raises the issue that we do have to  
16 consider.

17           Do we need to see more studies that, in  
18 fact, take those individuals who have not succeeded in  
19 Treatment X, whatever that treatment happens to be,  
20 and cross them over to the other treatment to see if,  
21 in fact, they have a beneficial effect, or else we  
22 won't really know are we really helping those people

1 who weren't getting a benefit from those treatments.

2 I guess the last point I heard was the  
3 concept of enriched trials, that is, we're using flare  
4 designs, which means you're taking people who are  
5 doing "well" to some extent on whatever treatment they  
6 are receiving; if they stop that treatment, they get  
7 worse; and then they go on to another treatment.

8 You are taking people who are, in fact,  
9 demonstrating some beneficial effect with whatever the  
10 alternative that they were taking were, and now we're  
11 taking out the people who didn't get a benefit. We  
12 are only using that subgroup. Does that in a sense  
13 stack the deck in the direction of finding people who  
14 are likely to have a beneficial effect?

15 I did that very quickly. I tried to collapse  
16 a bunch of different areas. I didn't mention the risk  
17 management program because we're going to get to that  
18 in the next questions.

19 Did I miss other important points that  
20 should have been included in that general sense?  
21 Because I think it's going to transition us into what  
22 the FDA has specifically asked us to talk about.

1 Anything that I missed? Did I, unfortunately,  
2 misrepresent anybody?

3 (No verbal response.)

4 CHAIRMAN TURK: Let's take I mean five  
5 minutes. Do not leave the room. Stand up and stretch  
6 and then we're going to address the questions the FDA  
7 has asked us.

8 (A recess was taken.)

9 QUESTIONS TO THE AAC AND AAC DISCUSSION

10 CHAIRMAN TURK: Please take your seats.

11 We are going to be moving into a different  
12 section now in which we actually have a set of  
13 questions that the FDA specifically asked the  
14 Committee to comment on and eventually we are going to  
15 actually do some voting on some of these issues.

16 When we do the voting, I'm going to ask you,  
17 and I'll remind you of this again, when I do ask you  
18 to vote we will go around the room. Please state your  
19 name for the record as well as what your vote is when  
20 we get to those particular topics.

21 Before we get to any type of voting, there  
22 are a couple of discussions questions, many of which

1 we circled around and sort of start hitting upon, but  
2 I think we can see if there any additional discussions  
3 of these as we move through it.

4 The first question that we were asked to  
5 address was, has the safety profile of etoricoxib been  
6 sufficiently characterized; and if not, what other  
7 studies would we want to see or recommend that they  
8 should provide? I will open that up.

9 Yes, Dr. Gardner?

10 DR. GARDNER: I would like to ask the  
11 members of the Committee and specifically the  
12 clinicians in thinking about what other studies we  
13 might recommend, can you conceive of a way, any way,  
14 that the risks that we're seeing can be managed?

15 When we think about a risk management  
16 program, that assumes that we believe that management  
17 is possible. I would like to hear from the clinicians  
18 whether you think that it is possible; otherwise, I  
19 don't what other studies we can recommend.

20 CHAIRMAN TURK: Dr. Ginzler.

21 DR. GINZLER: Well, I have great fears about  
22 being able to have an effective risk management

1 program. You know, it's very simple in our hospital.  
2 When we go to the P&T Committee with a recommendation  
3 for something new, it's restricted to that group of  
4 physicians who treat that entity. Only I can  
5 prescribe certain things and only cardiologists can  
6 prescribe other things.

7 But we're not talking about restricted  
8 prescribing here. We're talking about every physician  
9 in the United States being able to prescribe for the  
10 approved indications and a myriad of off-label  
11 indications.

12 I really don't think that the education  
13 program, in the sort of sketchy details that we've  
14 heard, is going to reach and have an effect on the  
15 people that need to hear it.

16 CHAIRMAN TURK: Anyone else I haven't seen?

17 Dr. Fries.

18 DR. FRIES: Well, I would answer that I  
19 don't think it's been well enough characterized,  
20 because of the comparator choice mainly. One would  
21 really like to see a comparison outcome study that had  
22 Naprosyn plus PPI as the ideal comparator.

1           That is one area that I would personally  
2     like to see additional information on, so we can  
3     answer the question of whether there really is a  
4     difference, whether diclofenac is or isn't the same.

5           The second thing that I think would flow  
6     from here, and we did this a long time ago, with  
7     NSAIDs is a six-way crossover design in which we  
8     compared six NSAIDs and RA in the same six in  
9     ankylosing spondylitis. That design is quite feasible  
10    and quite inexpensive.

11          The question of what happens after trying a  
12    six- or eight-drug crossover design to the drug that  
13    comes into last place, including this drug, you could  
14    get an answer.

15          Because a lot of the argument seems to  
16    depend on the fact that there is this great unmet  
17    need, which means that there are people that are not  
18    responding to any present NSAID who would respond to  
19    this, and that's a testable fact.

20          CHAIRMAN TURK: May I ask you, how large a  
21    trial was that?

22          DR. FRIES: The study that we did was a

1 small trial that had 36 patients with each disease.  
2 Each one in a Latin design got the same number of  
3 followings of every other one and the same number of  
4 positional slots as every other drug.

5 The design was a six-week trial on a given  
6 drug doing a crossover within a crossover without a  
7 washout and the patient able to drop out of any given  
8 drug, but not the study, at any time from week one on,  
9 so someone didn't get stuck in a miserable drug for a  
10 long period of time.

11 We showed, it's not directly attributable  
12 here, variability. We weren't specifically answering  
13 the question. We showed some superiority but also a  
14 lot of variability in that group.

15 You could expand that study and expand it a  
16 little bit in number of diseases. It's a very  
17 practical design to answer some of the questions that  
18 seem pivotal here.

19 CHAIRMAN TURK: Duration of that trial would  
20 be how long?

21 DR. FRIES: We assumed that we were likely  
22 to see an effect in six weeks or not at all from a

1 given drug.

2 CHAIRMAN TURK: Thank you.

3 Dr. Stine.

4 DR. STINE: Regarding the safety, we talked  
5 about this before, but just to reiterate the issue  
6 about the 30-milligram dose and the safety of the  
7 30-milligram dose seemed to be less completely  
8 characterized than some of the other doses.

9 CHAIRMAN TURK: Other comments about safety  
10 and how well it's been characterized?

11 Dr. Pasricha.

12 DR. PASRICHA: I think the safety has been  
13 reasonably well characterized. We know it's just as  
14 bad as diclofenac and perhaps worse than Naprosyn.  
15 You know, I'm not sure how much more data we need to  
16 come to those conclusions.

17 I mean, we can keep asking for more  
18 comparators, but the data as it exists compared to  
19 two other nonsteroidals on the market today, the  
20 safety has been well characterized.

21 It's up to us to decide what to do with that  
22 data, but I'm not sure getting additional data is

1 necessarily going to help us come to any more  
2 conclusions than we already can.

3 CHAIRMAN TURK: Other comments? We also ask  
4 to specifically focus on the cardiovascular safety  
5 findings based on the data presented, in particular:  
6 from the large outcome trial, the MEDAL trial,  
7 specifically about cardiothrombotic effects, edema,  
8 congestive heart failure, and hypertensive effects.  
9 We're just specifically now looking at the safety from  
10 the cardiac side.

11 Dr. Cannon.

12 DR. R. CANNON: Well, I think everything  
13 we've seen is consistent with the class effect of  
14 coxibs on thrombotic risk: myocraidal infractions,  
15 cerebrovascular infarction, fluid retention,  
16 provocation of congestive heart failure.

17 Of course, we can't compare this drug with  
18 the other coxibs, but from what I see it's consistent  
19 with the class effect. I think it's real. I think  
20 it's probably greater than what would have been seen  
21 with Naprosyn had that been the comparator. In my  
22 mind, there is an increased cardiovascular risk with

1 this agent in my view.

2 I think it comes down to determining whether  
3 there is a need, a clinical need, for this drug based  
4 on what we've heard about the heterogeneity of  
5 responses to older or more traditional NSAIDs. I  
6 think that is what we're struggling with, because we  
7 don't really have strong data that there is a need for  
8 this drug in addition to what is already available.

9 I think from a safety standpoint, from what  
10 I've seen, I don't believe there is any difference or  
11 major difference between this drug and the other  
12 coxibs. I think they all increase cardiovascular  
13 risk.

14 CHAIRMAN TURK: That's a statement we heard  
15 from our cardiology colleague. Is there anyone who is  
16 not a cardiologist, a rheumatologist who would like to  
17 comment about the cardiac risks that they've heard?

18 (No verbal response.)

19 CHAIRMAN TURK: Is that agreement or just  
20 inertia?

21 (No verbal response.)

22 CHAIRMAN TURK: Okay. We're also asked to

1 look at specific hypertensive effects, which we saw  
2 significant increases from etoricoxib. Any comments  
3 that people want to make about safety regarding  
4 hypertension in particular?

5 (No verbal response.)

6 CHAIRMAN TURK: Are you all tired out?

7 Yes, Dr. Hennessy?

8 DR. HENNESSY: If I could choose between a  
9 drug that caused hypertension and one that didn't, I  
10 would choose one that didn't.

11 CHAIRMAN TURK: Of course, you're going to  
12 balance that with the potential beneficial GI.

13 DR. HENNESSY: All other things being equal.

14 CHAIRMAN TURK: Any other comments about  
15 safety, about what you've heard, what you would like  
16 to see, what other data we need to be collected that  
17 would convince you otherwise?

18 I did get a feeling that if there was a  
19 study done with Naprosyn possibly plus a PPI that  
20 might be something you would want to see. Is there  
21 anything else that you might want to see, or you're  
22 satisfied right now?

1 Yes, Dr. Davis?

2 DR. DAVIS: I think because of the dose  
3 effect that we see with the renovascular, I would want  
4 to see longer-term data with the 30-milligram dose  
5 that we are supposed to be considering now, in  
6 particular how long the patients were able to stay on  
7 the 30-milligram dose before there is a dose  
8 escalation.

9 That is one of my biggest concerns about  
10 this drug right now is it being prescribed starting at  
11 60 milligrams and it's being used even in higher doses  
12 for other indications, albeit it short-term, we can't  
13 assure that when it's prescribed.

14 CHAIRMAN TURK: I believe they are  
15 suggesting you start at thirty and then you increase  
16 to sixty. What is not clear is at what point you make  
17 that decision to switch.

18 Other comments about safety?

19 Dr. Rappaport, since you're sitting there,  
20 this is a question that you're particularly interested  
21 in, are there questions that you would like us to  
22 focus on more specifically, or anybody from the FDA,

1 about the safety issue?

2 DR. RAPPAPORT: No. I think if that's all  
3 the comments there, that's all the comments there are,  
4 that's fine.

5 CHAIRMAN TURK: The last shot. We can come  
6 back to it.

7 Yes, Dr. O'Neil. Thank you.

8 DR. O'NEIL: I just want to say that when  
9 we're looking for a relatively low incidence problem  
10 like a half of a percent or a one percent  
11 cardiovascular thrombotic risk, studying a thousand  
12 patients for nine months on average is not adequate to  
13 make me feel like I have any clue whether the  
14 30-milligram dose is as risky as the 60, or it might  
15 even be higher for all we know because the confidence  
16 intervals were so huge on something with a relatively  
17 low incidence rate. We do need more data there.

18 CHAIRMAN TURK: Okay. We were also asked to  
19 look at the efficacy of etoricoxib appropriate dosing.  
20 We have talked about that issue. I think we've  
21 covered the discussions points partially, because I  
22 think in our earlier discussion we covered a lot of

1 the issues that were being directed to us. Now there  
2 is actually a request for us to take on a Committee  
3 vote.

4 At this point we will actually ask specific  
5 questions on which you're going to be asked to vote  
6 yes or no or abstain, I presume you're allowed to do  
7 that.

8 As I said before, I will ask you, those who  
9 are voting members, to state your name and then what  
10 your vote is and we will go around the table. We will  
11 start the first time from left to right. We will  
12 start with Dr. Morris. Then, the next time, assuming  
13 there is a next time -- the question that we've been  
14 asked to vote on, and this is a specific one that it's  
15 really going to take you to think through -- yes,  
16 Dr. Day? Sorry.

17 DR. DAY: I just have a brief comment. The  
18 way this is laid out is logical, but it is unsettling  
19 because we are asked to vote yes or no; and if yes,  
20 then there are other things that we would comment on.  
21 Some of us might like to have had those things to  
22 comment on first that would then drive whether the

1 vote was yes or not. That is just an observation.

2 DR. RAPPAPORT: Well, you should certainly  
3 feel free to comment on those things during this  
4 discussion.

5 DR. DAY: But we're asked to vote now.

6 CHAIRMAN TURK: Well, if you would like, if  
7 you look at those, there is no reason why we can't  
8 talk about the things that are there. Would you like  
9 to specifically like to raise some that you would like  
10 to have discussion about? Dr. Day, have you got  
11 anything specific on that list?

12 DR. DAY: Well, it would be good to. That  
13 was why I think three of us were speaking up about the  
14 risk management program during the previous discussion  
15 because we were worried that it wasn't going to come  
16 up before a vote.

17 The only people we've spoken to are the  
18 people from the drug safety and risk management  
19 committee background. I think one of the physician  
20 members commented also. Does anyone else want to  
21 comment on any of these questions before a vote?  
22 Because it's an if-then, else. It's a little if you

1 vote one way, then we'll discuss these things. Does  
2 anyone?

3 CHAIRMAN TURK: We have some people, so we  
4 do have some comments.

5 Dr. Levine.

6 DR. LEVINE: Just a few thoughts. I can't  
7 comment on the cardiovascular, but I think the  
8 cardiovascular is more important than the  
9 gastrointestinal. I think when you weigh this the GI  
10 complications are important, particularly the ones  
11 that are complicated.

12 You can just, as the sponsor knows and  
13 everything else, it's pretty easy to look down the  
14 endoscope and find anything from a little petechial  
15 hemorrhage or something minor to a small ulcer very  
16 frequently in all NSAID and less so in the coxibs by a  
17 little bit.

18 I think the important thing is, how serious  
19 is the complication? With a trend, with a dose  
20 response going up, I think it's probably very real.  
21 There is no difference between these two drugs.

22 I would put it in context. When I vote I

1 have to balance it with the more serious  
2 cardiovascular effects, so that the advantage of a  
3 coxib, and it's true, is that a coxib has less  
4 potential to cause GI problems, serious problems or  
5 less problems. I think the serious problems are  
6 really what we have to vote on and not the overall  
7 findings that people would find about that.

8           The second thing is if one is concerned  
9 about the use of a drug like this, will coxibs really  
10 have an advantage because they are better pretty much  
11 than most of the NSAIDs if they were given to somebody  
12 who didn't need a PPI, who didn't have a peptic ulcer  
13 or a high-risk patient?

14           When you get into arthritis, you have so  
15 many high-risk patients in general that for me voting,  
16 it makes it difficult. I think that's an important  
17 point. I just think you have to think of the type of  
18 patient you have and try to balance the risk.

19           As someone who is thinking about this, I put  
20 cardiovascular first and GI second even with the  
21 complications, but I'm concerned about the failure to  
22 show a difference with complicated side-effects.

1 CHAIRMAN TURK: Ms. Aronson.

2 MS. ARONSON: As far as the labeling, I get  
3 stuck about who is excluded from the trial,  
4 particularly when it comes to obesity, morbid obesity,  
5 recognizing that population lives in this country,  
6 then recognizing that the study was 75 percent outside  
7 of the United States.

8 I don't know about whether clinicians could  
9 comment about the risk within that population of  
10 morbid obesity. I know there are some generalities  
11 that include the CV and thrombotic events, but also it  
12 would include a lot younger population that I don't  
13 think we have data on. With labeling, do you announce  
14 the populations that are not studied, that may be at  
15 risk?

16 CHAIRMAN TURK: Can someone answer that or  
17 take on that question?

18 Dr. Felson.

19 DR. FELSON: I'm happy to try to answer it.  
20 I do a lot of clinical studies on osteoarthritis,  
21 including large cohort studies of OA, so I have a  
22 reasonable sense of who gets it and who is in studies.

1           We didn't get the MI data, but the average  
2   EMI of people with NEOA at least is in the low  
3   thirties in the United States. These are obese and,  
4   occasionally, morbidly obese people. In Framingham  
5   and in other studies, people with OA have a higher  
6   than expected risk of cardiovascular mortality  
7   compared to people of age and gender.

8           People with rheumatoid arthritis who might  
9   also get this are also known to be at high risk,  
10  increased risk, of cardiovascular morbidity and  
11  mortality. I don't have any data as to whether they  
12  are at high risk of GI events or complicated GI  
13  events.

14          I think that any data we've seen about  
15  increased cardiovascular risk needs to probably be  
16  weighed and weighted, so to speak, in terms of that  
17  risk probably being magnified or likely to occur at an  
18  even greater number of events in people with OA and  
19  RA.

20          Because of a variety of reasons, they are  
21  more at risk than other people. They are more  
22  overweight. They are more often diabetic. They are

1 more often sedentary. All of those things increase  
2 their risk.

3 DR. FRIES: I just thought, sort of on the  
4 same line, that it was a little curious that there  
5 were all of these exclusions from the study and yet  
6 they didn't appear in the label.

7 It seemed to me you should have some kind of  
8 consistency. If you don't study them, why then you  
9 ought to say they are not indicated in. There was a  
10 big mix. That's sort of what you were getting at I  
11 think.

12 CHAIRMAN TURK: Ms. Aronson.

13 MS. ARONSON: Yes, that's what I was getting  
14 at.

15 CHAIRMAN TURK: I want to ask Dr. Cannon a  
16 question. Over the break, I heard you talking about  
17 or the issue was raised is it possible to think about  
18 are there options to approving or not approving. Can  
19 you approve with certain stipulations? I want you to  
20 elaborate on that.

21 DR. R. CANNON: Right. I thought it would  
22 be helpful to me and perhaps others that don't have a

1 long experience in serving on Committee's like this to  
2 hear from the FDA or to get some instructions from the  
3 FDA, just much like a jury would get instructions from  
4 the judge before coming to a decision, as to what our  
5 options might be regarding our response.

6 Obviously, we may recommend not approving  
7 this drug, but we could recommend approval with a  
8 variety of constraints, all the way from what is  
9 currently available for celecoxib to even more  
10 restrictive constraints to its prescription  
11 administration.

12 I thought it would be helpful, if others  
13 agree, to have some instruction from the FDA as to  
14 what our options are regarding the range of  
15 constraints that might be applied to an approval.

16 DR. SAAG: Let me just add to that quickly,  
17 because I think the timing is interesting with the  
18 recent IOM Report on the future of drug safety. The  
19 mandate to the Agency, which is not yet a funded  
20 mandate but a mandate notwithstanding, to work in this  
21 Phase IV area. What are the implications? This is a  
22 great example of, well, what is the Agency going to do

1 in response to these types of circumstances now and in  
2 the future?

3 DR. MEYER: That's a larger question. Let  
4 me approach the first question first. Because I know  
5 there was some early discussions about restricted  
6 distribution or targeting the marketing of this drug.  
7 I would not like to see a vote contingent on a  
8 recommendation of a restricted distribution, and I'll  
9 give you a couple of reasons why.

10 Number one, I don't think it's clear to me,  
11 and we asked questions of the sponsor to try to  
12 clarify some of these points, whether a specific  
13 patient population that would uniquely benefit from  
14 this drug could be identified.

15 It probably is true that one could identify  
16 patients who might be at special risk in relation to  
17 the risk of this drug, but that's probably true of  
18 other NSAIDs and coxibs as well.

19 The other matter, though, is that having a  
20 restricted distribution plan is a very difficult  
21 thing, from a regulatory standpoint and a from a  
22 practical standpoint, for the sponsor to impart on a

1 drug.

2 I would say that, from a philosophical point  
3 of view from the Agency's standpoint, it really should  
4 be restricted to those drugs where that drug has a  
5 unique role in therapy, a clearly unique role in  
6 therapy.

7 Thalidomide, for instance, is available with  
8 a restricted distribution. It has a very restricted  
9 role for an important treatment, which is leprosy.  
10 One can also look at other drugs that have some  
11 restrictions on their marketing and see that they have  
12 a unique role in therapy.

13 Whatever else I think we heard about  
14 etoricoxib today, I don't think one can say that a  
15 unique role for this drug has been defined.  
16 Therefore, I would not want your voting to be  
17 contingent on you then saying, "Yes, with a restricted  
18 distribution plan." Because I don't think it's  
19 something we would consider, and I'm not sure to whom  
20 we would restrict.

21 As far as the Phase IV issue, I'm not sure  
22 there is a short answer to that. To the degree that

1 we have a drug before us that has some important  
2 questions about its risk/benefit, I would say that if  
3 those questions have not been sufficiently answered to  
4 vote yes or no, then, in my mind, it should be to a no  
5 vote.

6 Because if you need more data to make your  
7 mind up about whether you could recommend this drug to  
8 be approved, then those data should be available  
9 beforehand, not afterwards.

10 In other words, if the missing piece is so  
11 important that it causes you to not be able to say  
12 whether you think this drug should be marketed, then,  
13 from a regulatory standpoint when we're in that  
14 situation, we're not talking about a Phase IV  
15 commitment, we're talking about we need those data  
16 prior to approving the drug for marketing.

17 Because when a Phase IV study is done,  
18 particularly if it's going to be a multiyear study  
19 looking at outcomes, by the time that study is  
20 designed, conducted, analyzed, and reported to the  
21 Agency, you may be four or five years down the road.

22 A lot of patients will be exposed in those

1 four or five years. I think that if the data needs  
2 are so great, then we need to have those data before  
3 we make the regulatory decision.

4 CHAIRMAN TURK: Thank you.

5 Dr. Cannon, did you want to respond at all,  
6 or did that satisfy you?

7 DR. R. CANNON: (Nodding head.)

8 CHAIRMAN TURK: Dr. Pasricha?

9 DR. PASRICHA: I want to go back to the  
10 question of unmet need. I'm not a rheumatologist; I'm  
11 a gastroenterologist. One can argue that if  
12 50 percent of patients on a traditional nonsteroidal  
13 have dyspepsia, then that represents a group of  
14 patients that may not be able to take that drug  
15 because of tolerability.

16 We are not talking about the serious  
17 complications of upper-GI events. We are talking  
18 about patients with dyspepsia, for instance. A lot of  
19 my patients say if we put them on even an ibuprofen,  
20 that it's tearing them up, and isn't there something  
21 else that they can use.

22 There is actually an unmet need for that

1 group of patients who may respond to a COX inhibitor,  
2 whether it is traditional or a coxib, but without the  
3 dyspepsia.

4 Because there is I think a significant group  
5 of patients that are taken out of the treatment  
6 because of tolerability issues, not so much safety  
7 issues but I think tolerability. That is slightly  
8 different than there were on safety.

9 I think we should talk about that because  
10 that may represent the unmet need that we are all  
11 trying to struggle with. I would just like to open  
12 that up for comments from my rheumatology colleagues.

13 CHAIRMAN TURK: Actually, let me raise it to  
14 Dr. O'Neil. You are also a GI doc, so maybe you could  
15 comment?

16 DR. CLIFFORD: She's not.

17 CHAIRMAN TURK: Oh, you're not. I'm sorry.

18 DR. O'NEIL: I'm a pediatric rheumatologist.

19 CHAIRMAN TURK: Oh, I'm sorry.

20 Let me move over one. Dr. Levine.

21 DR. LEVINE: It's very true that just the  
22 other day coming down here I had a patient on a new

1 coxib, that's not to be mentioned, but out for one  
2 year beginning with an "L."

3 She had terrific troubles one to the other  
4 for dyspepsia and she was fairly young. She would be  
5 a good risk patient. I would have no problem  
6 considering complicated versus dyspepsia if it was a  
7 young person who is healthy, et cetera.

8 Once they have dyspepsia and everything  
9 else, I think they are less liable perhaps a little  
10 bit to tolerate a coxib. The problem is I'm afraid  
11 that the GI-complicated events is so serious relative  
12 to the less serious cardiovascular, and this study  
13 here didn't show it.

14 I feel as I keep going back and forth, and I  
15 alluded to, questions exist not on dyspepsia about the  
16 heterogenous population, the glucocorticoids, and we  
17 don't have information on that, the fact is that it's  
18 hard to tease out in my mind big differences in PPIs  
19 and aspirin patients on that.

20 When you put it all together, you look for  
21 sort of either a blockbuster or something that is  
22 giving us a little advantage. I don't know the

1 rheumatology end. But I think this end, we're still  
2 arguing in gastroenterology whether coxibs are really  
3 better than NSAIDs or not.

4 I think at this point until we could tease  
5 out something that was unique with this drug, I think  
6 just dyspepsia is not a problem, they are all going to  
7 have it, I have to keep thinking in my mind this may  
8 be a coxib very much like an NSAID that's traditional.  
9 That's the problem, we go back and forth here. I  
10 haven't seen data to convince me otherwise.

11 DR. PASRICHA: I would hate to start an  
12 argument with another gastroenterologist, but I just  
13 want to emphasize that I'm not talking about  
14 complicated events. I think complicated events data  
15 is very clear, there is no difference.

16 But there is a lot of literature from  
17 randomized-controlled trials that shows that coxibs  
18 reduce the incidence of dyspepsia significantly, and  
19 uncomplicated ulcers significantly.

20 I'm just trying to point out that there is  
21 actually potentially a segment of patients, whether  
22 it's large or small we can argue, but there is a

1 segment of patients who might be on an alternative to  
2 traditional nonsteroidals because of tolerability.

3 Now, you can argue, as Dr. Graham has  
4 argued, that you can just simply add a PPI to the  
5 nonsteroidal, that's another option. We are not here  
6 to discuss that option.

7 We are just talking about whether there is  
8 an unmet need for a drug like this.

9 I would like to say there perhaps might be. I would  
10 like other members of the Committee to comment on  
11 that.

12 CHAIRMAN TURK: Dr. Fries?

13 DR. FRIES: I don't think there is an  
14 argument about whether there is an unmet need in  
15 osteoarthritis. We don't have good drugs. We would  
16 all like a disease-modifying drug without any  
17 toxicity, and then we would be in good shape.

18 With regard to the specific point on the  
19 table, if I remember the slide right, this drug, the  
20 dyspepsia and all the individual symptoms kind of  
21 balanced right out to each other. There weren't any  
22 striking reasons to think that this drug would cause

1 less dyspepsia than alternatives.

2 I agree with your general feeling that there  
3 has been a decrease of maybe about a third with prior  
4 coxibs that have been looked at over a long time in  
5 terms of the minor symptoms. I'm concerned only  
6 really about the symptoms that can't be cured by  
7 stopping the drug, the ones that put you in the  
8 hospital or have you die.

9 DR. PASRICHA: Well, I think the data does  
10 show that there is a reduction, that's one of the  
11 questions specifically asked, that there is a  
12 significant reduction in dyspepsia. Perhaps, we can  
13 ask the sponsor to clarify that?

14 CHAIRMAN TURK: Dr. Sandborg.

15 Oh, sorry. It's a specific question? I'm  
16 sorry, I missed the question.

17 DR. CURTIS: Let me just pull up the slide  
18 number, please. We looked at a range of endpoints  
19 that looked at the tolerability from a GI perspective,  
20 because clearly that is another realm of sort of  
21 safety and tolerability.

22 Can we go to the "GI Tolerability Summary"

1 from the core talk please on Slide 46?

2 (Staff complies.)

3 DR. CURTIS: From the MEDAL Program, we  
4 prespecified. These are patient discontinuations due  
5 to a range of gastrointestinal adverse events and this  
6 included any GI symptoms -- abdominal pain, dyspepsia,  
7 reflux all grouped together -- and showed a clear  
8 about 30 percent risk reduction.

9 We showed also in the development program  
10 that, again, to get to this issue of GI tolerability,  
11 these are actually patient discontinuations. This was  
12 something that was significant enough that resulted in  
13 a patient feeling they could not continue on with  
14 study therapy. Again, for etoricoxib relative to the  
15 NSAID comparators, about a 40 percent risk reduction.  
16 This is a consistent observation with etoricoxib.

17 Slide 317, please?

18 (Staff complies.)

19 DR. CURTIS: Again, looking at the actual  
20 rates, large amounts of data, clear differences in  
21 rates of patients discontinuing. In addition, we  
22 published this in the "Lancet" publication. We looked

1 at and we prespecified a dyspepsia endpoint. It  
2 showed a 25 percent decrease, as I articulated  
3 earlier, in discontinuations for dyspepsia. There is  
4 a clear and consistent GI tolerability benefit  
5 separate from the serious GI event. That's just to  
6 clarify.

7 We do see that as an advantage of a COX-2  
8 inhibitor versus a traditional NSAID that, again, may  
9 not have the same clinical significance, granted,  
10 admittedly, of these serious GI complications, but it  
11 is a profile that will result in some patients  
12 actually discontinuing an otherwise effective therapy.

13 I did just want to make one quick point. We  
14 firmly believe that naproxen is different from a  
15 cardiovascular perspective. There is absolutely no  
16 argument with that.

17 We feel that, just in terms of the data, the  
18 data for the rest of the NSAID does not support that  
19 this drug is qualitatively different from the rest of  
20 the non-naproxen NSAIDs.

21 When you look at the entire thrombotic and  
22 renovascular profile at the doses of thirty and sixty,

1 this drug fits clearly in the spectrum of the risks  
2 and benefits of NSAIDs other than naproxen.

3 I just ask you to be very clear. We would  
4 look forward to working with the Agency to see if  
5 there is a way to communicate that kind of  
6 information.

7 Clearly, there are patients for whom  
8 naproxen should be the initial choice. But, again,  
9 not everyone is going to tolerate naproxen. The GI  
10 tolerability of adding the PPI is a function of its  
11 adherence and its compliance, and, therefore, there  
12 need to be choices other than naproxen.

13 As I said, the data we feel support that  
14 this drug is qualitatively similar to non-naproxen  
15 NSAIDs, and that should be viewed in the context of  
16 that way.

17 CHAIRMAN TURK: Thank you. I think we have  
18 heard the sponsor's presentation.

19 Before I go to any new names, there are some  
20 names still on the list.

21 Dr. Sandborg.

22 DR. SANDBORG: I just wanted to followup on

1 the issue of the post-approval trends. Over years, I  
2 think that it's a slippery slope that people start  
3 pushing, assuming that it's safe. Dyspepsia becomes  
4 more of a problem and you push it to more obese people  
5 with cardiovascular risk, people who are hypertensive  
6 because you want to help them.

7 I'm concerned that the safety profile will  
8 decay over time, that any education we do will decay  
9 over time, and over time there will be an increased  
10 exposure of patients that you would like not to be  
11 exposed because of cardiovascular risk.

12 CHAIRMAN TURK: Dr. O'Neil.

13 DR. O'NEIL: Well, I think my question was  
14 largely answered by Dr. Meyer's comments, but  
15 certainly it would not be unprecedented, for example,  
16 etanercept, has an indication for juvenile  
17 polyarticular arthritis.

18 It's indication, however, is qualified.  
19 It's the only indication for which it is qualified  
20 that the patient must have failed prior treatment with  
21 a DMARD or been intolerant of a DMARD. It just raises  
22 the question whether it would be appropriate to give

1 an indication for osteoarthritis for patients who are  
2 intolerant of the GI side-effects and have low  
3 cardiovascular risk.

4 CHAIRMAN TURK: Dr. Meyer, do you want to  
5 comment?

6 DR. MEYER: Yeah. I did not want to suggest  
7 that you couldn't give comments that modify your vote.  
8 I specifically wanted to steer people away from  
9 restrictive distribution ideas, though.

10 I think it's perfectly reasonable to say  
11 "Yes, but I think it should carry such labeling." In  
12 fact, that's to some degree the intent of having those  
13 questions follow, "If, yes, what kind of labeling  
14 would you want?"

15 DR. O'ONEIL: The one point is that this is  
16 not going to be a cheap drug. They've studied a  
17 million patients for a million years. This is not  
18 going to be a cheap drug for a long time.

19 The third-party payers will not pay if you  
20 don't meet the indication restrictions and so that is  
21 indeed an effective way, not optimally effective  
22 perhaps but a somewhat effective way of restricting or

1 controlling distribution.

2 DR. MEYER: Yes. Just to be clear, what I  
3 would like, and I think I'm speaking for my colleagues  
4 here, as much as possible we sort of want a clean  
5 up-and-down vote.

6 Again, if your vote were to be yes and you  
7 had in your mind you wanted the indication to be a  
8 specific way, then I would think we would come back to  
9 that afterwards and with the opportunity to say so.

10 DR. JENKINS: Yes. If I could add to that,  
11 I think what Dr. Meyer has been trying to point out is  
12 we heard comments about restricted distribution or  
13 restricted access.

14 That's very different from a regulatory  
15 context than second-line status in the labeling for  
16 monitoring requirements or whatever. When we look at  
17 risk management programs, labeling is kind of the  
18 first tier of activities that you can take.

19 You can have box warnings. You can have  
20 second-line indications. You can have recommendations  
21 not to use it on certain groups of patients. Those  
22 are all designed to try to maximize the safe and

1 effective use, but they are also very difficult for  
2 the Agency to actually enforce.

3           It's when you get into further tiers of  
4 restriction where you actually say you have to have  
5 certain training to prescribe the drug or the patient  
6 has to be registered in a program like, for example,  
7 the Lotronex® to get access to the drug. That's what  
8 we're talking about when we talk about restricted  
9 distribution.

10           We normally limit consideration of those  
11 types of restrictions to situations where the drug  
12 really provides a demonstrated benefit that warrants  
13 having such a program but also to warrant the other  
14 risks that that drug may have leading to those  
15 restrictions.

16           I think what Dr. Meyer is trying to say is  
17 we have trouble understanding why we would want to go  
18 to a restrictive distribution, a restricted access  
19 program to an NSAID, unless it has really demonstrated  
20 a considerable benefit over available therapy.

21           That doesn't mean that the Committee  
22 couldn't recommend. You know, you could make a box

1 drug, or you could contraindicate it. You could make  
2 it second- or third-line therapy. Those are all  
3 labeling comments that could come after your  
4 recommendation of yes or no for approval.

5 CHAIRMAN TURK: Dr. Day, did you have a  
6 question?

7 DR. DAY: No.

8 CHAIRMAN TURK: Dr. Ginzler.

9 DR. GINZLER: No.

10 CHAIRMAN TURK: Ms. Solanche.

11 MS. SOLANCHE: Dr. Fries was so right in  
12 mentioning that there is an unmet need for good  
13 arthritis drugs. However, we have to ask ourselves,  
14 the idea should not be that we need new drugs. The  
15 idea should be that we need better drugs.

16 I think we have learned through the work in  
17 other areas as, for instance, AIDS drugs and cancer  
18 drugs that although it may seem that, well, we need  
19 this drug because there might be one person out there  
20 who will have a favorable reaction, we can't approve  
21 every drug. That's part one.

22 Part two is the idea of restrictive use, the

1 idea of Stage IV requirements does not work. We've  
2 seen it in other drugs. Once the FDA imprimatur is on  
3 there, the drug can be prescribed for a myriad of  
4 things. It could be prescribed totally out of its  
5 area.

6 Since we have questions about the  
7 risk/benefit, I think we are just opening it up for  
8 more possible misuse. As a person who has taken every  
9 coxib there is and had no good reactions to them -- I  
10 was going somewhere with that.

11 (General laughter.)

12 MS. SOLANCHE: I feel that the whole class  
13 of coxibs have problems in basically these same areas,  
14 the CHF problems and gastrointestinal problems, all  
15 those things. I don't see how we can think of  
16 approving a drug that basically is same old, same old.  
17 I was going somewhere, but I'll wait for the next bus.

18 Thank you.

19 CHAIRMAN TURK: I think your point was well  
20 stated.

21 Dr. Gardner.

22 DR. GARDNER: (Shaking head.)

1 CHAIRMAN TURK: He passed.

2 Dr. Levin.

3 DR. LEVIN: Just a reminder to everybody  
4 that one can overinvest in the effect of labeling on  
5 rational prescribing. I think we have a lot of  
6 evidence that says that prescribers don't necessarily  
7 and very often, in fact do not follow the advice on  
8 the label.

9 I would just caution that while it's  
10 important to have labeling be scientifically accurate,  
11 we have evidence that that simply isn't enough to  
12 change prescriber behavior in the ways we think it  
13 should be changed. I think it is important to keep  
14 that in mind.

15 I think actually the payer issue may be more  
16 of a control, that in this environment payers are  
17 often met with resistance to their unwillingness to  
18 include new drugs in a formulary and in time actually  
19 do include those drugs in a three-tier system. People  
20 will pay more, but those drugs will get out there.

21 CHAIRMAN TURK: Dr. Boulware.

22 DR. BOULWARE: I wanted to ask the FDA to

1 help me a bit with this decision and provide me some  
2 guideline on this. I think I have a good position on  
3 where I think it's risk and where it's merit is. It  
4 may be a benefit, maybe.

5 It looks like an awful lot like a drug that  
6 already is approved and exists. Can I use, should I  
7 use the same standard to vote on this that was used on  
8 a drug that does exist, or is it fair for me to say  
9 now that, well, there is one like that, so I don't  
10 think we need another one like that? It's a matter of  
11 timing? I'm torn with that.

12 DR. MEYER: Well, first of all, you're  
13 supposed to be here to help us make our decisions, not  
14 the other way around.

15 (General laughter.)

16 DR. MEYER: I think that's a fair  
17 discussions point, and one that we would welcome  
18 input, quite seriously, input from you and other  
19 committee members on. Whether diclofenac was an ideal  
20 comparator or not, it is a marketed drug. While it is  
21 not used to the same degree as some other NSAID in the  
22 United States, it does not have insubstantial use.

1 I think it is a fair sort of philosophical  
2 question whether the data for a new NSAID or COX-2  
3 agent needs to show that it has some advantage to  
4 what's already on there or whether it needs to show  
5 that it's like the other drugs on the market. I don't  
6 think we can give you an answer to say that "This is  
7 the clear answer."

8 From a strict reading of the Food, Drug and  
9 Cosmetic Act, the drug has to be shown to be safe and  
10 effective and there is not really sort of strict  
11 mention of relative place in the armamentarium in the  
12 Food, Drug and Cosmetic Act. It's not sort of a firm  
13 legal answer to what you're saying, but there is sort  
14 of a fair, philosophical debate that could be had.

15 CHAIRMAN TURK: Go ahead.

16 DR. JENKINS: I would just add to that we  
17 find ourselves in places like this frequently as  
18 science advances and we learn more about drugs. You  
19 know, something that you would have done in years  
20 past, as you obtain more information, you have to  
21 apply that new information.

22 I think we are really asking you in 2007,

1 given what we know, do you recommend that this be  
2 approved with all the data that has been presented  
3 before you. That is the struggle we are facing and  
4 trying to decide, you know, has there been a bright  
5 line drawn that changed the standard.

6 We didn't know about these cardiovascular  
7 risks when we were approving diclofenac and a lot of  
8 the other drugs in the eighties and nineties. They  
9 are out there. I guess some could question, based on  
10 some of the presentations today, should all of them  
11 still be out there.

12 That's obviously a question that could be  
13 considered, but that's not the question we're here to  
14 consider today. We face this often. Science has  
15 changed. What should our regulatory position be today  
16 in 2007, given what we know about cardiovascular risk,  
17 about GI benefit, about tolerability, about benefit as  
18 far as efficacy compared to other therapies? That's  
19 really what we're asking you to answer from your  
20 perspective. I don't think we can give you much more  
21 guidance than that. Because we are really looking  
22 forward to your answer.

1 DR. BOULWARE: I guess one way I'm going to  
2 look at this is, as a person who is a practicing  
3 rheumatologist, we do have a paucity of things that  
4 are effective that we know one is just certainly  
5 better than another. I do have to run through drugs  
6 with patients.

7 As I look at this drug now, and I think I  
8 have a fair understanding of its risk and its benefit,  
9 I am convinced that there is a class effect, that  
10 there is a greater cardiovascular risk.

11 I'm looking at this now, that if we  
12 introduce one more drug like this with this risk, the  
13 likelihood that we will have a greater market share of  
14 all the patients who have osteoarthritis exposed to  
15 this risk becomes a real concern to me, without really  
16 any measurable significant benefit, although there  
17 might be some less dyspepsia. Nobody is going to die  
18 from that, dyspepsia, just dyspepsia.

19 DR. PASRICHA: Well, nobody is going to die  
20 of dyspepsia, but if the patient can't take the drug  
21 because of dyspepsia, they are not going to have any  
22 benefit for any antiinflammatory for osteoarthritis.

1 It's not a question of the dyspepsia being bad. It's  
2 a question of the dyspepsia being a barrier for the  
3 patient to come on the drug.

4 CHAIRMAN TURK: Let me see if I can  
5 summarize where we have been and then to bring us to a  
6 vote. If for some reason there is something I've left  
7 out, by all means you can add it to the list.

8 We have been asked to balance off the  
9 potential beneficial effects on the GI side,  
10 tolerability against the potential for cardiac  
11 effects, negative cardiac effects. We have heard that  
12 the GI effects at least for uncomplicated peptic  
13 ulcers appear to be quite favorable for this  
14 particular drug. We have heard that the tolerability  
15 seems to be favorable for this drug.

16 On the other hand, we have heard that from  
17 the cardiac side, that this seems to be a class  
18 effect. There do seem to be significant cardiac  
19 effects that are there.

20 We are being asked to balance, if you will,  
21 which is why I was pushing so heavily on the NNT and  
22 the harm is the balance of the GI positive side

1 against the cardiac negative side; how do we come down  
2 on that; then put that in the context of the  
3 population in need and the available treatments that  
4 are present for us; and is the data available allowing  
5 us to make this decision.

6 That is sort of where we are. It is, in  
7 some sense, where we started. When I read through  
8 this, I constantly was going back and forth. I'm sure  
9 each one of you did the same thing.

10 I think we really have to come to the point  
11 of saying in our expertise, in our specialty areas,  
12 given the information that has been presented in the  
13 background documents, given the information that has  
14 been presented by the sponsors, and by the FDA is to  
15 see if we can come and make a decision.

16 There is not going to be a perfect answer.  
17 Every one of us, we're going to have to balance this,  
18 but it's going to be an answer. What we're doing is  
19 giving advice to the FDA. The FDA can choose to weigh  
20 our decisions in different ways, go through our  
21 discussions.

22 It's not as if we're dictating or saying

1 "This is what you will do," but rather "The expertise  
2 of this particular group of individuals having gone  
3 through and read through the materials and listened to  
4 the discussions, this is our best recommendation to  
5 you."

6 Dr. Fries, you had a comment?

7 DR. FRIES: Well, I just think that even  
8 when you were talking about the GI advantages you  
9 mentioned the point, which to me was a very strong  
10 one, that when you had complicated disease, there was  
11 no favorable tilt.

12 CHAIRMAN TURK: Before we take the vote,  
13 does the FDA have any other questions or issues they  
14 would like us to address as a Committee before we do  
15 move on to voting?

16 (No verbal response.)

17 CHAIRMAN TURK: Hearing no comments from the  
18 FDA, are there any other final comments from anyone on  
19 the Committee? If not, we're going to move on to the  
20 vote. As I said earlier, I'm going to ask you to say  
21 your name and vote for the first question.

22 Do you recommend approval of etoricoxib for

1 relief of the signs and symptoms of osteoarthritis?

2 We will start with Dr. Morris.

3 DR. MORRIS: Usually, I vote with my  
4 stomach, but I'm going to vote with my heart and say  
5 no.

6 DR. GARDNER: Jacqueline Gardner, no.

7 DR. HENNESSY: Sean Hennessy, no.

8 DR. CRAWFORD: Stephanie Crawford, no.

9 DR. R. CANNON: Richard Cannon, no. You  
10 were asked about additional studies, it might lead to  
11 a yes approval sometime down the future.

12 The study that I would want to see is a  
13 study showing a unique role for this coxib and perhaps  
14 other coxibs that would encourage its use in a  
15 hierarchical manner, in other words, to balance the  
16 increased risk, which I think is a class effect of all  
17 coxibs, to show that this drug works when potentially  
18 less toxic, more traditional NSAID fail.

19 CHAIRMAN TURK: In the absence of those  
20 data, you're voting no?

21 DR. R. CANNON: I vote no.

22 DR. LEVIN: Arthur Levin, no.

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1 DR. BOULWARE: Dennis Boulware, no.  
2 DR. STINE: Bob Stine, no.  
3 CHAIRMAN TURK: Dennis Turk, no.  
4 DR. SAAG: Ken Saag, no.  
5 DR. DAVIS: John Davis, no.  
6 DR. SANDBORG: Christy, Sandborg, no.  
7 DR. FRIES: James Fries, no.  
8 MS. ARONSON: Diane Aronson, no.  
9 DR. FRIES: I think you got me, no, Jim  
10 Fries.  
11 DR. DAY: Ruth Day, no.  
12 MS. SOLANCHE: Martha Solanche, no.  
13 DR. FELSON: David Felson, no.  
14 DR. GINZLER: Ellen Ginzler, no.  
15 DR. LEVINE: Bob Levine, no.  
16 DR. PASRICHA: Jay Pasricha. Yes, with the  
17 additional labeling that Dr. O'Neil mentioned, that it  
18 be used for patients who cannot tolerate existing  
19 traditional nonsteroidals and who are at lower risk  
20 for cardiovascular events.  
21 DR. O'NEIL: Kathleen O'Neil. At this time  
22 no.

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1           CHAIRMAN TURK: The vote was twenty to one  
2 no in response to that particular question.

3           I want to thank the Committee for all of the  
4 time they put in.

5           DR. MEYER: There was a second part if no,  
6 and we heard one discussion point of that. The second  
7 part was, what other additional studies might provide  
8 support for approval? We have heard one comment on  
9 that. I would like to hear other comments, if there  
10 are other comments.

11          CHAIRMAN TURK: Let me just finish thanking  
12 the Committee for putting the time in and looking  
13 through the wealth of data they were given, listening  
14 intently and importantly to the information.

15          Now we can address the question that would  
16 be asked by the FDA. In addition to the study that  
17 Dr. Cannon mentioned, are there other studies that we  
18 would like to have that might help us help them in the  
19 future make a decision?

20          Dr. O'Neil first and then we will move  
21 around.

22          DR. O'NEIL: If extended numbers of subjects

1 treated with a 30-milligram dose demonstrated lower  
2 cardiovascular risk than is seen at 60 milligrams, we  
3 might be more comfortable with that, at least I might.

4 CHAIRMAN TURK: Dr. Morris.

5 DR. MORRIS: Yes. One of the things I  
6 think, to Dr. Meyer's point about having no clearly  
7 identifiable population for which a benefit is  
8 demonstrated, I think that this drug has some  
9 potential in the ulcer area for benefit. There may  
10 be, indeed, a subpopulation where there is a benefit,  
11 where the benefits would outweigh the risk.

12 I think if they could do a study on the  
13 30 milligrams showing efficacy for that subpopulation,  
14 especially in ulcer healing, that would I think give  
15 them a new indication and may indeed the benefit/risk  
16 ratio may be positive if they could find a specific  
17 population.

18 CHAIRMAN TURK: Related to that, I would  
19 like to see a study that basically took individuals  
20 who were not helped or not getting the benefits off of  
21 an existing drug and were then crossed over or moved  
22 over to this particular drug to see if, in fact, there

1 is a population for who can benefit from this. I  
2 think the 960 Study or a variant better done of that  
3 would be very helpful.

4 Dr. Felson.

5 DR. FELSON: Yeah. I very much deferred to  
6 Ms. Solanche earlier when she said what we need is a  
7 new type of, and better treatment for osteoarthritis.  
8 To the gastroenterologist and the cardiologists here,  
9 I have a clinic full of osteoarthritis patients, and  
10 none of these drugs work well.

11 This one doesn't. None of them do. They  
12 are better than placebo. There is nothing special  
13 about this drug that would warrant giving it to  
14 patients and putting them at risk of cardiovascular  
15 death, period.

16 Are there any additional studies that need  
17 to be done on this drug or any others of this class  
18 for osteoarthritis? No. These drugs are not  
19 indicated for osteoarthritis, unless we determine that  
20 their cardiovascular risk is less than what it seems,  
21 because these are people at high risk of  
22 cardiovascular death.

1           That doesn't mean that osteoarthritis  
2           doesn't need treatment. It desperately needs  
3           treatment, more than rheumatoid arthritis now. It is  
4           not a very pleasant disease to have that's  
5           successfully treated. This class and conventional  
6           nonsteroidals just don't work all that well in many  
7           patients.

8           This is not like many of the other chronic  
9           medical disorders that you guys are thinking, "That's  
10          the model here, where we have something curative and  
11          we can't give it to patients. We ought to try to  
12          figure out which patients might benefit from it."

13          That's not what's going on here. These  
14          drugs are modestly effective at best. I don't see any  
15          reason to test this or any others in its class  
16          further, unless we see that cardiovascular risk is  
17          really not increased.

18          CHAIRMAN TURK: Other help for the FDA on  
19          studies they would like to see?

20          Dr. Day.

21          DR. DAY: I just have a comment. Listening  
22          to the studies people would like to have, no one has

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1 recommended a study where it's naproxen and a PPI.

2 There was a lot of discussion of it before, but it has  
3 not risen to the surface now.

4 CHAIRMAN TURK: Dr. Ginzler.

5 DR. GINZLER: I would love to see someone be  
6 able to distinguish the antiinflammatory from the  
7 analgesic effects of nonsteroidal antiinflammatory  
8 drugs, not specifically coxibs versus standard  
9 nonsteroidals, but of any.

10 CHAIRMAN TURK: Ms. Solanche.

11 MS. SOLANCHE: On a completely different  
12 note, I would like people from the FDA, the people  
13 from Merck, everyone in this partnership patients do  
14 not fail drugs, drugs fail patients.

15 CHAIRMAN TURK: Any other comments?

16 Dr. Fries.

17 DR. FRIES: Yes. I did recommend if you  
18 were going to do something else, that it should be  
19 naproxen versus PPI. I think if you took what we've  
20 been talking about all day, you could probably see how  
21 that study would likely come out.

22 Since it would be such a huge study, I kind

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1 of doubt if Merck would want to undertake that  
2 particular study. It would be of similar size to  
3 MEDAL. It would have a likelihood probably that there  
4 would be no GI advantage, so it would be a  
5 cardiovascular disadvantage. I don't think that would  
6 be likely to help them.

7 CHAIRMAN TURK: Last comments? Does FDA  
8 have any comments?

9 DR. MEYER: Well, since it seems like we are  
10 about to dismiss ourselves, I just wanted to on behalf  
11 of the Agency thank Dr. Turk and the rest of the  
12 members and temporary members of the Advisory  
13 Committee for a very thoughtful discussion.

14 You obviously did a lot of preparation. I  
15 think the advice was tremendously helpful to us.  
16 Again, on behalf of the Agency, I thank you all for  
17 your hard work and for your attendance and discussion  
18 today.

19 CHAIRMAN TURK: Thank you all very much.

20 DR. LEVIN: I would just like to take an  
21 opportunity to thank the Chair for his articulate  
22 leadership of this meeting.

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1 (Applause.)

2 CHAIRMAN TURK: Thank you all very much.

3 It's been a pleasure. Hopefully, we will see you all  
4 again sometime at a future meeting.

5 (WHEREUPON, at 4:05 p.m., the meeting was  
6 adjourned.)

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