

1 event that occurs.

2 DR. DRAKE: Dr. Adelman, we actually--I
3 think the whole committee appreciates that you are
4 doing that. We also appreciate that you have done
5 a valiant effort to give us the information we
6 need.

7 What I am hearing around the table though,
8 and I must really restrict this in the future to
9 the committee, please, I want to ask the sponsor
10 not to come to the microphone. If a committee
11 member wants to address a specific question to the
12 sponsor, you have my absolute permission to do so,
13 but we must allow the committee time for their
14 deliberation without a point-counterpoint at every
15 turn because much of this will fall out in the
16 discussion.

17 I have chaired many of these committees.
18 You would be amazed at how much falls out during
19 the discussion of intelligent people sitting around
20 the table thinking about it.

21 So I would like to continue, please, with
22 the committee deliberations. Dr. Tan?

23 DR. TAN: I was going to point out the
24 data just presented, I think, the follow-up data is
25 biased. I think the patients who don't respond,

1 you are not going to give him alefacept again;
2 right?

3 DR. DRAKE: A little slower.

4 DR. STEVENS: He said the study is biased
5 because the people who don't respond are not given
6 further rounds of alefacept.

7 DR. TAN: If the patients don't respond,
8 they won't get this drug again. So, therefore, if
9 you follow up those patients, you are always
10 studying those patients who respond. But, when you
11 first give the drug, the biologics, to the
12 patients, you don't know whether that patient is
13 going to respond or not.

14 DR. DRAKE: That's right. There are no
15 predictors. Absolutely. That is a very good
16 point. Thank you.

17 DR. EPPS: One-tenth of people were at the
18 fifth course than started out, 1,300 in the
19 beginning, 116 were at the end. So there was quite
20 a bit of drop off for whatever reasons. We don't
21 really know.

22 DR. DRAKE: Other comments? Bob?

23 DR. SWERLICK: I don't think you can
24 interpret that data necessarily that way. Those
25 people were staggered in how long they had been on

1 it. So some may not have been on the drug long
2 enough to be through the fifth course. Some may
3 have responded and stayed clear.

4 DR. EPPS: But that's what we don't know,
5 how many cleared.

6 DR. SWERLICK: But I think that is a
7 separate issue. You are talking about efficacy
8 versus safety issue.

9 DR. EPPS: That is an important issue.

10 DR. SWERLICK: In terms of the number of
11 patients who have undergone the fifth course, it
12 comes back to the same question I asked earlier.
13 If we are going to set a standard, a higher
14 standard, is it going to be an eternally moving
15 one. What I am trying to figure out is how many
16 patients would we have to study in order to detect
17 a certain frequency of adverse events and how many
18 patients would need to be studied.

19 So, if this isn't enough, how many
20 patients would be enough? I don't have the
21 statistical background to answer that, but are we
22 talking about another 1,500 patients? Are we
23 talking about 15,000 patients? How many is that?

24 DR. DRAKE: Dr. Seigel?

25 DR. SEIGEL: It depends on what you are

1 looking for, but if something doesn't occur in the
2 background and then you study 150 people and you
3 don't see it, you can be pretty sure that the rate
4 is 2 percent or less from a statistical
5 perspective.

6 If you increase that to a thousand people,
7 you can be pretty sure that it is a quarter of a
8 percent. So it is going to change. If it has a
9 background occurrence, as serious adverse events
10 go, as I said, it may be hard to tell no matter how
11 many you study whether it is real.

12 DR. SWERLICK: Because I have the same
13 anxiety regarding this whole new class of
14 medications, but if our response to that is simply
15 to say, well, we need to study more, we need to
16 study more, again, it comes back to how much is
17 enough. It has to be reasonably defined.

18 DR. DRAKE: Dr. Abel and then Dr. Tan.

19 DR. ABEL: Why couldn't we vote to approve
20 it with some limitations and not feel that it may
21 be--

22 DR. DRAKE: It is certainly one of the
23 committee's prerogatives.

24 DR. ABEL: Because cyclosporine was
25 approved for one year. Maybe there are some

1 thoughts about multiple cycles within a certain
2 time period and it could be approved with
3 qualifications.

4 DR. DRAKE: The committee can make any
5 recommendation they want to to the agency. We are
6 free to make a recommendation of--here are your
7 options. You can turn the whole thing down and
8 recommend that it not be approved. We are not the
9 final deciding authority, you should know. We are
10 just an advisory body to the FDA. They will make
11 the decision.

12 But we can recommend based upon our
13 deliberations that it shouldn't be approved at all.
14 You can recommend that it be approved but with some
15 caveats; here is what we think you ought to
16 continue to look at. Or you can say, boy, we think
17 it is great. Let's go. You have a range and that
18 is what we are here for.

19 We are to give the agency advice. They
20 will make the final determination based upon what
21 they have heard from the sponsor, from our experts
22 and from you guys. So your role here is to help
23 advise the FDA staff on what they might want to
24 look for irrespective of what our recommendation is
25 because they do not have to abide by our

1 recommendation.

2 But we certainly can make lots of them.

3 We have a lot of fun.

4 DR. SEIGEL: We will appreciate all of
5 them. Thank you.

6 DR. TAN: I had one more. I think this
7 has been brought up several times. I think, in
8 terms of the incidence rate, probably you want to
9 consider this in terms of the adverse events for
10 the alternative therapy as well.

11 DR. DRAKE: Okay. I am going to make kind
12 of a summary statement here. Would you all agree
13 that if we look at Part C under malignancies, it
14 says they went from 0.5 in placebo to 1.1 for
15 treated patients. I think the very same set of
16 questions could be asked about malignancies that we
17 have just asked about the rest of this section.

18 Is it fair for me to say that we want to
19 translate almost all of our comments from A and B
20 to C? The very same questions about malignancy are
21 going to apply. Yes?

22 DR. MORISON: With one proviso, that
23 infections will crop up probably early.
24 Malignancies may crop up late. So you could be two
25 years into a course of therapy and then start

1 seeing malignancies.

2 DR. DRAKE: I agree with you totally. We
3 need to have a longer time line for monitoring for
4 malignancies.

5 DR. MORISON: To go to the extreme, you
6 might say, well, you have got to look at these
7 people for fifteen years before you start finding
8 melanomas.

9 DR. DRAKE: Look at PUVA. Two years was
10 the earliest.

11 DR. MORISON: Two-and-a-half years.

12 DR. DRAKE: Two-and-a-half years was the
13 earliest; yes. So you will need a time line on
14 malignancies because they just are slower. No
15 matter what we do with it, you need a longer
16 monitoring period for that.

17 I must admit, I still am a little
18 concerned. The safety data that we just heard on
19 the animals bothers me just a little bit. I really
20 think that hyperplasia of the B-cells really must
21 be monitored to see what--it could just be
22 reactive, but it also needs to be in the monitoring
23 portfolio to make sure that that doesn't signal
24 anything important.

25 Now, then, Dr. Weiss and Dr. Seigel, do

1 you have enough information on Roman numeral I or
2 what other questions would you like to pose to us
3 or ask the committee?

4 DR. WEISS: I think you have addressed
5 those as well as anybody could.

6 DR. DRAKE: Yes; it is a little hard. But
7 we are getting there. At least we are pulling out
8 some information. As far as I am concerned, III
9 and IV sort of go together because the first
10 question on IV is how safe and effective is it.

11 So I want to devote just a couple of
12 minutes to efficacy. I want to talk about efficacy
13 for just a moment and then we will do IV because I
14 want to make sure we get that out of the way
15 before--the question on III, on efficacy outcomes,
16 because I think this is a quick for us, on the
17 outcomes part, the question is--we are back to
18 PASI. Is it okay to suggest that perhaps we have
19 discussed PASI already? Can we dispose of that
20 first question? Don't you have enough information
21 on opinion on PASI?

22 DR. WEISS: Yes; that's fine. It is
23 really more the issue about have they shown it to
24 be effective and then the overall risk-benefit
25 integration.

1 DR. SEIGEL: I would simply add, however,
2 that the question, although asked about in the
3 evaluation of this product and I think we have
4 heard well about the use of this in the evaluation
5 of this product probably has implications for what
6 sponsors seek to show for a variety of other
7 products that come along in psoriasis.

8 So, to the extent that there might be
9 suggestions, as some have said, that the PASI 75 is
10 insensitive or too high a response rate for trials,
11 I think, in the interest of time and getting
12 today's job done, it would be okay to skip over
13 that.

14 But, if we don't come back to it, we
15 might, at some future point, want to discuss with
16 this committee what are the optimal endpoints given
17 what we know now for new psoriasis trials.

18 DR. DRAKE: I couldn't agree with you
19 more. I think that we have grappled with this
20 issue on two separate committee meetings already
21 and I think it wouldn't hurt to have a third one
22 because we have got all kinds of stuff in the
23 pipeline that this committee and the agency are
24 going to consider.

25 So the more well-defined we can get is

1 going to help the sponsors. It is going to help
2 the committee. It is going to help you. So, Dr.
3 Seigel, I totally agree with you. I think that is
4 an extraordinarily important comment. The bar of
5 75 percent I think is reasonably high. On the
6 other hand, I bet you if we had some other slides,
7 we could show some other folks who didn't improve
8 as much.

9 I think you need to see the whole spectrum
10 as you are making these decisions is what I am
11 trying to say. You need to see some of the placebo
12 patients to get a sense. You need to see the whole
13 spectrum if you are going to be making
14 determinations about the PASI score, I think.

15 Let's talk about efficacy. Let's have
16 just a little bit of open discussion about efficacy
17 before we actually go to the vote because we
18 haven't discussed that. I want comment from the
19 members of this committee about efficacy of this,
20 whether you use the PASI score, the physician's
21 global assessment, whatever you use. What are your
22 reactions regarding the data and the information we
23 have received.

24 Dr. Abel?

25 DR. ABEL: I think you have to look at all

1 three assessments, PASI, physician's global
2 assessment and the quality of life. I think that
3 the efficacy seems very impressive especially in
4 terms of the fact that you think of this as a
5 remittive therapy and that there are going to be
6 long remissions and we don't have any treatments
7 for psoriasis that are like that except for PUVA,
8 and maybe UVB.

9 So I think it definitely has plus.

10 DR. DRAKE: Dick?

11 DR. TAYLOR: I agree. I am impressed with
12 the efficacy of this product. I think, in looking
13 at the patients that we have seen and hearing from
14 patients that have received it, I agree that
15 looking at all three of the parameters for
16 evaluating efficacy, that they are all good. As I
17 said before, I think the PASI 75 is much too high
18 and PASI 50 would probably be more reasonable.

19 If you did that, then the efficacy is very
20 impressive.

21 DR. DRAKE: As a custom I have, I like to
22 go around the room and make sure everybody talks
23 when we get to this point because I want to hear
24 what everybody has to say about both efficacy and
25 additional comments on safety.

1 Bob, would you start. Dick, you can
2 repeat what you have or not, but everybody in the
3 room be thinking about what you want to say because
4 I am going to call on everybody.

5 DR. SWERLICK: My impression is that when
6 compared to what I use now, this drug seems like it
7 will be as effective or more effective and
8 potentially even safer than some of the other
9 poisons that I have to resort to using.

10 I had one other issue to raise.

11 DR. DRAKE: Please.

12 DR. SWERLICK: That has to do with the
13 safety. This is likely to be combined with other
14 biologics. That actually hasn't come up yet.
15 Should we wait until--that has to do with the
16 product labeling or--

17 DR. DRAKE: Yes; let's wait on that. But
18 using it in conjunction with something else is a
19 problem no matter what we approve, or don't
20 approve. It is just absolutely an issue. But, for
21 now, I would like to keep it sterile. Let's assume
22 this is a sterile process.

23 I don't know if I am going to invite you
24 again or not because you ask too hard questions.
25 I'm just teasing, you understand. They are very

1 important. Do you want to comment on safety while
2 you are at it?

3 DR. SWERLICK: Again, I think that it is
4 not if something happens to somebody on this drug.
5 It is when. But I think, compared to the risks
6 associated with everyday life that this compares
7 well with other therapies given the information we
8 have on hand now, and that the amount of additional
9 study that would be required to identify the low-frequency
10 catastrophic events, the 747 going down
11 in New York City sort of business.

12 The numbers involved in that sort of study
13 would be huge you will pick it up in postmarketing.
14 That is my bias.

15 DR. DRAKE: Dr. Taylor, please give us
16 your total range of thoughts.

17 DR. TAYLOR: As I said before, I think
18 this is a sufficiently efficacious agent to
19 consider approval. I would agree that, compared to
20 other treatments that I presently use all the time,
21 this is at least equal if not better than most.

22 I think the other issue is that, as far as
23 the risk is concerned, I think many of the problems
24 that we have all identified will be identified in a
25 registry if the registry is set up well enough and

1 it will be identified much more rapidly
2 postmarketing than it will be premarketing. So I
3 would think that we are not going to get the
4 numbers premarketing that we need to make the
5 decisions. So I would think that we know enough
6 about the risk right now to go ahead.

7 DR. DRAKE: Dr. Abel.

8 DR. ABEL: I would agree with that. I
9 think it should be approved now. I think it
10 compares favorably, more than favorably, with other
11 systemic therapies for psoriasis. I, too, am
12 concerned about the risks and the repeated courses,
13 the number of cycles, the time interval. I think
14 that we have to develop guidelines to decrease the
15 risk of potential side effects and monitor these
16 patients very closely long-term for both short-term
17 infections and long-term for infections and
18 malignancies. And there may be some caveats
19 written into the approval.

20 DR. DRAKE: I am going to derail my own
21 process here. I wanted to ask everybody a quick
22 opinion about dose. Without it being a total
23 discussion, I forgot we didn't address that. I am
24 going to go back to you three and ask you to give
25 me your opinion on dose and then would the rest of

1 you include that as we go around the table.

2 Bob, tell me what you think about dose.

3 DR. SWERLICK: I am confused. The
4 pharmacokinetics would suggest that the dose is not
5 going to be critical, but there is enough data that
6 would suggest that there may need to be dose
7 adjustment for certain subgroups of individuals
8 based upon size, not necessarily just weight but
9 other factors.

10 I think, again, it is one of those things
11 that it can be hashed out post-approval.

12 DR. DRAKE: Do you recommend further
13 studies on that?

14 DR. SWERLICK: Yes.

15 DR. DRAKE: Dr. Taylor

16 DR. TAYLOR: I have already given you my
17 impression of dose earlier on. I really think it
18 ought to be weight-adjusted rather than a given
19 dose.

20 DR. DRAKE: Dr. Abel?

21 DR. ABEL: That makes sense to me. We
22 talked about that early on and I would favor the
23 weight-based. But that doesn't seem to apply with
24 IM, so if it were just IM, it seems to be okay to
25 use the fixed dose. I am wondering about the

1 options for IM versus IV. How are we to choose?
2 Why are both of these routes being offered?

3 If it is just the fixed dose, then maybe
4 IM is the ideal way for it to be given.

5 DR. DRAKE: Thank you. Now, Ms. Knudson,
6 we certainly haven't heard much from you today. As
7 an IRB person, you probably have quite a few
8 comments on safety and everything else. So please
9 share them.

10 MS. KNUDSON: My concern, of course, is
11 that this is a highly vulnerable population. I
12 suspect that as soon as it is approved, there will
13 be many, many, many patients who will want to take
14 the drug and could be followed. So long-term
15 effects I think could be found with some ease as
16 long as that registry is set up appropriately.

17 I think the safety is certainly better
18 than toxins that are used currently. This is
19 infinitely better. It seems to be at least as
20 efficacious. I don't think I can comment on the
21 dose except I am concerned about children and size
22 and if children are going to be included.

23 DR. DRAKE: Thank you. Dr. Stevens?

24 DR. STEVENS: With respect to dose, I
25 think we have heard the issues with respect to

1 weight and all of that. The other side of that
2 observation, of course, is that if you think that
3 it is less effective in heavier people, then the
4 data would shake out that it would be more
5 effective then we are thinking globally for the
6 lighter people when we look at the entire cohort
7 that was studied. So I think that is a
8 postmarketing issue.

9 My remaining question with respect to
10 dosing goes back to what I mentioned earlier about
11 the reduction of lymphocytes at six weeks. I think
12 you can always redesign experiments and studies.
13 There are infinite variations that you can do on
14 these. My question, with respect to dosing, is the
15 twelve-week dosing regimen as opposed to a shorter
16 one. But, again, I think that is one for
17 postmarketing.

18 I am also impressed with efficacy, as
19 everyone else has mentioned and I agree with the
20 comment that was made explicitly by Dr. Tan but
21 reiterated by the others that the question before
22 us with respect to safety goes towards if we do not
23 allow this therapy to be available, what will these
24 patients be doing otherwise.

25 They will be using these other therapies

1 that have been demonstrated to have safety issues.

2 DR. DRAKE: Dr. Katz.

3 DR. KATZ: As far as using other therapies
4 with safety issues, no doubt this therapy will have
5 safety issues also but that would have to be
6 acceptable. As far as safety, thus far, probably
7 the safety profile is fairly good. There are some
8 indications, though, that there may be problems. I
9 feel that there is not enough people who have been
10 treated with these indications, with infection and
11 malignancy, that we have to be much more cautious.

12 Also, as far as efficacy, there is no
13 question is it very impressively efficacious in a
14 small number of patients. Now, there are people
15 here who treat more psoriatics than I do, although
16 I have my average patient share. But some people
17 have psoriasis clinics and so they know more than I
18 do.

19 So when they say it is as efficacious as
20 anything, then I respect that. However, with a
21 PASI even of 50 which we will say is good, 24
22 percent over placebo--24 percent. Now I ask those
23 who said it is as efficacious as the others, do you
24 not get more than 24 percent improvement with PUVA,
25 with methotrexate, 80 percent, 80 percent with

1 PUVA. Of course, I am talking with Dr. Morison
2 here so he can address that.

3 Those have their risks over decades. As
4 physicians, we have to make that judgment with our
5 patients whether they are willing to subject
6 themselves to those risks. But I think that it
7 would be a useful alternative after more studies
8 are done but, certainly, clear or almost clear 9
9 percent over placebo, and 16 percent PASI 75
10 certainly shows that it is efficacious, but I
11 wouldn't agree with its being impressive.

12 The other thing that bothers me a little
13 and I would admit that this may be irrelevant,
14 especially with respect to what Mark said and he
15 couldn't differentiate it. But I wonder about the
16 blind being negated in part so that, really, the
17 efficacy is even really less than we are told here
18 because the same physicians are--I mean, there was
19 a difference in I think it was 11 percent in the IM
20 reaction. So I have my reservations.

21 DR. DRAKE: Thank you, Dr. Katz. Dr.
22 Morison?

23 DR. MORISON: In addressing the three
24 issues, I think as far as weight is concerned,
25 everything I have heard today sounds confusing to

1 me. It makes sense to me that a milligram per
2 kilogram approach would be the best approach but
3 hearing all the data, I am confused as to whether
4 that is going to be possible to sort out with
5 further studies. Certainly, to me, it would be an
6 ideal approach.

7 So far as the PASI 75 is concerned, I sort
8 of take exception to the comments that have been
9 made to some extent. Let's say I am in a different
10 camp. I am used to dealing with narrow-band UVB
11 and Hoover's main treatments and they certainly do
12 exceed PASI 75. Hoover, you can clear people to 95
13 percent in a very consistent way.

14 I think you can clear 90 percent of
15 patients with PUVA and UVB to 95 percent clear.
16 So, certainly, those treatments have a higher
17 standard.

18 Having said that, I would 100 percent
19 agree with everybody's comments that we need more
20 agents because certainly I have patients who are in
21 trouble, end stage, can't get in for treatment and
22 I would love some more agents to use to treat
23 psoriasis because certainly the ones we have now,
24 methotrexate and Soriatane, and cyclosporine have
25 lots of drawbacks.

1 The final point is my only real concern is
2 safety. I think we are sort of launching into a
3 biologic experiment where I am not quite sure we
4 are headed. When I say that is the one concern I
5 have is malignancy because the psoriasis population
6 is a unique population, quite different from
7 rheumatoid arthritis patients and such like.

8 This is a group of patients who spend a
9 maximal amount of time down at Ocean City. They
10 have had a maximal exposure to UVB and many of them
11 had a lot of exposure to PUVA. They are all primed
12 for the development of skin cancer. Almost the
13 whole severe group of patients with psoriasis are
14 primed to develop skin cancer. It is something
15 that is going to take a few years to develop.

16 We have already seen it with cyclosporine.
17 I hope we don't see it with this particular agent.
18 That is why I think that we need a very solid
19 follow up to detect it as early as possible.

20 DR. DRAKE: Thank you, Dr. Morison. Dr.
21 Epps?

22 DR. EPPS: Thank you. I think I have made
23 some of my impressions known. Of course, we all
24 wish we had more agents to use. I would have hoped
25 that statistically and otherwise it would be

1 stronger in support of this medication even though
2 I do tend to think beyond just the nine months of
3 improvement. Even a twenty-year-old could have a
4 life-expectancy of fifty more years. And we just
5 don't know.

6 Of course, we are not going to wait fifty
7 years, but my point is that even if, in this brief
8 period, there was malignancy potential, I think we
9 need to think very seriously about it even as Dr.
10 Morison has already alluded to, PUVA exposure, UVB
11 exposure and also natural-light exposure.

12 The other signal is infection. Sometimes,
13 it is not the opportunists that we see. It is the
14 severe common infection. It is the ones that we
15 see all the time which are more severe or act
16 differently that we need to watch for.

17 Should we get to the dosing, perhaps a
18 body-mass index may be a better way to look at it
19 rather than just kilos. There have certainly been
20 a lot of things in the media recently about
21 overweight of Americans and other ways to look at
22 that, but BMI may be one way of dose as opposed to
23 just straight kilograms.

24 DR. DRAKE: Dr. Epps, thank you. Dr.
25 King?

1 DR. KING: I am struck by the three
2 different ways of measuring effectiveness but my
3 mother was a business woman and she always said
4 that, "You may have it, but the customer may not
5 buy it." So PASI always reminded me that the
6 physician and the patient were looking at the same
7 thing. You could agree on how much you have. The
8 physician global was what the doctor thought was
9 there, but the quality of life is what the patient
10 perceives.

11 So I have always put more emphasis on how
12 much did the person perceive that I had done for
13 them, how much did their psoriasis improve.
14 Sometimes, people go away happy with, say, 50
15 percent or even a small patch that was on her face
16 and yet they could cover up the rest of it.

17 So I am struck that this is efficacious.
18 It may not be the total body cure, but there are
19 lots of folks who have not only no access to a
20 psoriasis daycare center, they have no access to a
21 dermatologist.

22 So I come down on the side of a unit dose
23 and access where people can inject themselves under
24 the supervision of the dermatologist, et cetera, so
25 they don't have to figure it out. They are not

1 going to give themselves IV this drug or any other
2 drug. Having taken insulin shots, myself, I will
3 tell you I would much rather have a fixed dose than
4 trying to calculate what I was supposed to take.

5 So I come down on the side this is
6 efficacious as a nice alternative. It doesn't
7 interfere with the liver or kidney and you have a
8 certain population of patients that just can't take
9 these. So, for a home-therapy unit dose,
10 efficacious may be not the barn burner, then I come
11 down on the side of approval of this drug with
12 appropriate monitoring. I would worry lots about,
13 as I counted in this recent review on biological
14 therapy for psoriasis, there are already twelve
15 agents in the pipeline so you we have to be careful
16 what we say for the first agent like this in this
17 category that we don't give either the FDA or the
18 manufacturers unreasonable expectations and too
19 high a bar so that it won't become available to
20 patients.

21 DR. DRAKE: Thank you, Dr. King. Dr. Tan?

22 DR. TAN: I do consider that the agent is
23 efficacious with impressive duration of remission.
24 But I don't think there is sufficient data to
25 suggest whether it should adjust for the weight

1 level, whether or not it needs to be further
2 studied.

3 DR. DRAKE: Thank you. Dr. Raimer.

4 DR. RAIMER: As has been brought out by
5 several individuals, we certainly do need more
6 treatment options for psoriasis. Fortunately, most
7 of the ones we have, their side effects don't occur
8 until we have given them several months of
9 treatment. So I would sort of really like having
10 this as another option to rotate people onto as
11 another treatment.

12 Obviously, all of us have patients who are
13 sort of out of options. They can no longer take
14 methotrexate. They don't respond to other drugs
15 and we do need another drug to be able to treat
16 these severe patients who are out of options.

17 My main concern also is with the potential
18 of malignancy eventually developing. I am not as
19 worried about skin cancers even though that is not
20 insignificant because we can watch the skin. If we
21 follow these patients closely, we can remove these
22 lesions when they are small before they are a
23 problem.

24 I think internal malignancy is more of a
25 worry, but these are probably not going to show up

1 for years, maybe. So I would be in favor of doing
2 postmarketing studies to watch for malignancies
3 rather than holding the drug up at this point in
4 time.

5 Finally, I would be for a standardized
6 test also with more studies looking at patients on
7 the heavy and light end, maybe looking to see if
8 doses need to be adjusted for those patients. Some
9 more studies for heavy and light folks, but I would
10 be in favor of a standardized for the majority of
11 folks.

12 DR. DRAKE: Terrific. I am ready to call
13 for a vote on Question Roman numeral IV if Dr.
14 Seigel and Dr. Weiss have no objection. Is there
15 anything else you want me to get on the table
16 before I call for a vote? It is okay?

17 Dr. Swerlick, we are sorry. You have been
18 so helpful but you can't vote. What I would like
19 is to vote--I think I will put them together
20 because, if we recommend approval, the safety and
21 effectiveness go together. That is the FDA's
22 primary mission, is it safe and effective. So we
23 are going to put them together.

24 I would like a show of hands from voting
25 members on--oh; we have to do each one? Okay,

1 fine. We are going to go around the table with a
2 vote. This question that you are voting on is has
3 the sponsor shown that this biologic is safe and
4 effective for use in adults for chronic plaque
5 psoriasis.

6 DR. KING: Wait, wait, wait. You didn't
7 address the issue of candidates for or there is
8 something--they failed out of methotrexate,
9 whatever. You are just saying naive patients who
10 have never been treated with anything else.

11 DR. WEISS: I guess the first question is
12 do people believe it should be recommended for an
13 approval and then we can get to potentially what
14 population.

15 DR. DRAKE: Lloyd, what I thought we were
16 going to is--

17 DR. KING: I was just bringing that
18 question up.

19 DR. DRAKE: Once we get to that, then we
20 are going to--actually, I am going to have you go
21 to that and to children and to other populations
22 and to labeling; all right.

23 DR. KING: Right.

24 DR. DRAKE: But is everybody clear on the
25 vote? Please identify your name and your vote

1 DR. TAYLOR: Richard Taylor. I vote
2 positive for approval.

3 DR. ABEL: Elizabeth Abel. I vote yes,
4 for approval.

5 MS. KNUDSON: Paula Knudson. I vote yes,
6 for approval.

7 DR. STEVENS: Seth Stevens. I vote for
8 approval.

9 DR. KATZ: Robert Katz. I vote for
10 nonapproval at this time.

11 DR. MORISON: Warwick Morison. I vote for
12 approval.

13 DR. EPPS: Roselyn Epps. I vote against
14 approval at this time.

15 DR. KING: Lloyd King. I vote for
16 approval at this time with the appropriate registry
17 and directed by the FDA.

18 DR. TAN: Ming Tan. Vote for approval
19 with caution on the second course.

20 DR. RAIMER: Sharon Raimer. I vote for
21 approval.

22 DR. DRAKE: The Chair records a vote of
23 eight for and two opposed. Is that correct? Does
24 everybody agree?

25 DR. SEIGEL: I would just like to point

1 out--because we have a lot of confusion on and
2 during and after these advisory committees. What
3 we ask for is a vote as to whether this is safe and
4 effective in terms of meeting the clinical
5 standards for approval.

6 DR. DRAKE: I stand corrected.

7 DR. SEIGEL: I assume that is the vote we
8 received and that's fine. The only reason I
9 highlight that is because, as was mentioned and is
10 not a subject for discussion, there are issues
11 regarding the manufacturing this product and making
12 sure it meets other standards that are not on the
13 table now that we are not putting forward right now
14 to this committee.

15 So I take those votes for approval as
16 indicating that, with regard to safety and
17 efficacy, it meets appropriate standards for
18 approval.

19 DR. DRAKE: I totally--I misstated that
20 although I thought I had covered--I did cover it
21 earlier but I should have restated it. We are not
22 approving or disapproving. We are giving our
23 recommendation to further the approval process to
24 the FDA, that we think this would be a nice drug to
25 get on the market with certain follow up,

1 registries, et cetera. That is the vote of the
2 committee.

3 DR. SEIGEL: Right.

4 DR. DRAKE: And that is reflected eight to
5 two. Fair enough? As the Chair, I didn't vote. I
6 tend to vote when it is a tie. And one abstention.
7 I try to remain neutral so that I facilitate and
8 don't bias. So I try very hard not to bias the
9 committee.

10 I want to tell you that I apologize. I
11 have got to leave. I have a mom that is ill and I
12 just can't not get home tonight so I apologize most
13 sincerely to the committee. But Dr. King has very
14 graciously agreed to take over with respect to the
15 following comments and questions.

16 I want to compliment the sponsor and the
17 agency and the committee because we have
18 accomplished a yeoman's job in a fairly finite
19 period of time. So thank you for your cooperation
20 with my kind of rules here but it is the only way
21 we can get through some of this stuff rapidly.
22 Thank you very much.

23 Dr. King?

24 DR. KING: I would like for the FDA to
25 tell us the remaining questions they want guided

1 and so on so that it refocuses the committee at
2 this point. We have now voted in favor of the
3 efficacy provided all the other parameters that the
4 FDA considers such as straight manufacturing, et
5 cetera, are met.

6 The issues to me have to do with the
7 product labeling. Is that the issue you want to
8 deal with next?

9 DR. WEISS: Yes.

10 DR. KING: We will start around. Dr.
11 Swerlick, you can't vote but you can sure talk. So
12 jump in.

13 DR. SWERLICK: What are we specifically
14 talking about at this point?

15 DR. KING: Product labeling, number V.
16 What would we want on the label to say that this
17 becomes an approved product. We have to issue a
18 product label saying this is how we would like for
19 it to be used and what group, et cetera.

20 DR. WEISS: Eventually, we would
21 specifically like V(1) addressed.

22 DR. KING: So Roman numeral V, product
23 label, No. 1; should the indicated patient
24 population be limited to people who have failed or
25 had an inadequate response to phototherapy or

1 systemic therapy rather than candidates for
2 candidates for such as other therapies, which is
3 why I said when we did V(1) candidates for.

4 DR. SWERLICK: The drug was not limited to
5 this population in terms of its--

6 DR. SEIGEL: The studies were for patients
7 who were candidates for. Some, as you saw data
8 broken down in some cases, by those who had had
9 prior therapy and those who had not. Sometimes,
10 based on a risk-benefit or unknown risk or
11 whatever, we approve drugs as second-line therapies
12 within a class and sometimes not.

13 So Question 1 in this section is getting
14 at whether the indication should be as the studies
15 were, the broad population of the studies'
16 candidates, or whether it should be those who have
17 failed or had inadequate response perhaps to other
18 alternatives available.

19 DR. SWERLICK: I don't see any particular
20 reason to limit it to a population, or deny a
21 population that was actually--it was tested on
22 which is they are candidates for other therapies,
23 it should be an option for patients to elect not to
24 take cyclosporine or methotrexate or not to be
25 exposed to UV light therapy if they feel as though

1 that represents a higher risk.

2 DR. KING: Dr. Taylor.

3 DR. TAYLOR: I agree. I don't think it
4 should be limited to previous treatments.

5 DR. KING: Dr. Abel?

6 DR. ABEL: I agree. I think it should be
7 open, open indication, because there are problems
8 with other treatments. Patients might not be able
9 to go a PUVA center. They might not be able to
10 take methotrexate because they have liver disease.
11 Pregnancy issues; we haven't talked about that
12 whether or not there is a contraindication. But,
13 certainly, they can't take retinoids or all of the
14 others if they are pregnant. So I would not limit
15 it.

16 DR. KING: Ms. Knudson?

17 MS. KNUDSON: I agree. I would not limit
18 it, either.

19 DR. KING: Dr. Stevens?

20 DR. STEVENS: Yes; I agree. I would not
21 limit it and I would also add the thought that one
22 of our concerns about cutaneous malignancies--it
23 may be, in fact, that phototherapy followed by this
24 product may not be the optimal way to treatment
25 psoriasis patients. So I would just add that as

1 another reason not to limit it to phototherapy
2 failures.

3 DR. KING: Dr. Katz?

4 DR. KATZ: Once it is available, I see no
5 reason to limit it. People of less severe
6 psoriasis will limit it, themselves.

7 DR. KING: Dr. Morison?

8 DR. MORISON: I agree.

9 DR. KING: Dr. Epps?

10 DR. EPPS: I agree. Dr. Tan?

11 DR. TAN: It should be the same population
12 the study was, so it is not limited.

13 DR. RAIMER: I agree.

14 DR. KING: I think that is pretty clear
15 for the FDA. Do you want us to vote on that, too?

16 DR. SEIGEL: No; that's fine.

17 DR. WEISS: Could I just ask another
18 question a little bit along these lines. I guess
19 there are a lot unknowns. Dr. Stevens, you already
20 mentioned maybe that giving this following PUVA is
21 not necessarily ideal. Are there any specific
22 concerns that maybe should be addressed perhaps in
23 postmarketing of using this following certain types
24 of other therapies, any potential concerns about
25 accelerating the rate of either malignancies or

1 some other types of immunological effects that
2 might have some clinical consequences that we
3 should be particularly cognizant of?

4 DR. KING: I would open it up to anyone on
5 the panel.

6 DR. STEVENS: I would just say the
7 phototherapy. I would say that--and I also have to
8 leave in a moment--I would just say that we do have
9 to monitor these effects. It is a new type of
10 therapy and I think, in the registry, which I think
11 needs to be fairly rigorous, prior therapies and
12 durations and responses need to be followed with
13 the eventual analysis towards trying to identify
14 people at low and high risk of adverse events.

15 DR. KING: Dr. Abel?

16 DR. ABEL: I agree that special caution
17 should be taken in those patients at high risk for
18 malignancies including those who have had PUVA
19 therapy and cyclosporine, in particular.

20 DR. KING: Dr. Morison?

21 DR. MORISON: As far as cyclosporine is
22 concerned, we are already forewarned because we had
23 the transmit group and we had that they had
24 problems in terms of developing skin cancer. So we
25 knew that cyclosporine was not going to be a smart

1 idea with PUVA and it is just a matter of
2 collecting data.

3 Really, it is only extrapolating from that
4 observation that you are concerned in this
5 particular situation. So I don't think you should
6 say it shouldn't be used. I think we have got to
7 get some data.

8 DR. KING: Dr. Katz?

9 DR. KATZ: I don't think that it should be
10 restricted.

11 DR. KING: Dr. Epps? The FDA is asking
12 for should we restrict it? Are there any kinds of
13 information, the prior treatments, and so forth?
14 How do you address the issue of what we are going
15 to tell them, the patients, the special
16 populations.

17 DR. EPPS: Certainly, there will be
18 special populations, and they estimate that it is
19 as many as 1.5 million people with moderate to
20 severe. Obviously, a lot of them would have had
21 treatments and that is quite a bit of monitoring on
22 the FDA's part, especially if there is a registry.
23 So, good luck.

24 DR. KING: Dr. Tan or Dr. Raimer?

25 DR. TAN: I think it should be restricted

1 to moderate or severe.

2 DR. KING: Actually, we have leaped ahead
3 to the moderate to severe. I am not sure we have
4 covered exactly what you want to know, but the
5 answer is not really.

6 DR. WEISS: Okay. Thank you. That's
7 good.

8 DR. KING: We will go back around to the
9 should it be restricted to moderate and severe
10 which ought to be real quick, I think, going around
11 the block here.

12 DR. SWERLICK: Yes.

13 DR. TAYLOR: No.

14 DR. ABEL: Yes, as with any other systemic
15 therapy.

16 MS. KNUDSON: Yes.

17 DR. KATZ: I don't think that it should be
18 labeled that way. I don't think people with one
19 patch of psoriasis are going to want to go on
20 weekly shots, so that will limit it.

21 DR. KING: But that is a difference. It
22 will be the doctor reading the PDR.

23 DR. KATZ: That's correct.

24 DR. KING: Dr. Morison?

25 DR. MORISON: It should be limited to

1 moderate to severe psoriasis.

2 DR. EPPS: Limited.

3 DR. TAN: What was just said.

4 DR. RAIMER: I think it should be labeled
5 that way, actually.

6 DR. KING: What other issues do we have
7 here left? No. 3; please discuss recommendations
8 that should be included in the label regarding
9 lymphocyte monitoring and subsequent dosing.
10 Specifically, should the label state that
11 lymphocyte counts and CD4 counts be followed for
12 all subjects as was performed in the clinical
13 studies.

14 DR. SWERLICK: Yes. I think it basically
15 should be handled the same way. These are
16 commercially available and have the same stopping
17 rules, essentially the same guidelines, that if the
18 CD4 count drops below 250, you hold the dose.

19 DR. KING: Dr. Taylor?

20 DR. TAYLOR: I agree.

21 DR. KING: Dr. Abel?

22 DR. ABEL: Yes; I would agree. And then,
23 if it hasn't recovered, no repeat course should be
24 given.

25 DR. KING: Ms. Knudson?

1 MS. KNUDSON: I absolutely agree.

2 DR. KING: Dr. Katz?

3 DR. KATZ: Yes.

4 DR. KING: Dr. Morison?

5 DR. MORISON: Yes.

6 DR. KING: Dr. Epps?

7 DR. EPPS: Yes.

8 DR. KING: Dr. Tan?

9 DR. TAN: Yes.

10 DR. KING: Dr. Raimer?

11 DR. RAIMER: Yes.

12 DR. KING: No. 4, please comment on the

13 types of information to include in the warnings

14 regarding the risks of infection and malignancy.

15 We have beat this pretty well, so what would you

16 like finally to say, Dr. Swerlick?

17 DR. SWERLICK: I would say put on the

18 label there is a theoretical concern and that

19 patients should be followed closely for the

20 development of infections or malignancies.

21 DR. KING: Dr. Taylor

22 DR. TAYLOR: That seems reasonable.

23 DR. KING: Dr. Abel?

24 DR. ABEL: You might also include the

25 geriatric patients or patients with concomitant

1 medical illnesses who might be immunosuppressed.

2 DR. KING: Ms. Knudson?

3 MS. KNUDSON: I agree; yes.

4 DR. KING: Dr. Katz?

5 DR. KATZ: I agree to include that
6 caution.

7 DR. KING: Dr. Morison?

8 DR. MORISON: Yes.

9 DR. KING: Dr. Epps?

10 DR. EPPS: I think that should be
11 included. You could say something to the effect of
12 it has been reported during trials or in
13 experimental animals or something like that.

14 DR. KING: Dr. Tan?

15 DR. TAN: Yes, included.

16 DR. KING: Dr. Raimer?

17 DR. RAIMER: I think it should be included
18 also.

19 DR. KING: Is that sufficient? No. 5;
20 what, if any, information regarding the DLQI
21 outcomes would be useful to provide in the product
22 labeling? Dr. Swerlick?

23 DR. SWERLICK: I think you include the
24 information on the PASI score, the global physician
25 assessment and the DLQI.

1 DR. KING: The whole schmear.

2 DR. SWERLICK: Right.

3 DR. KING: Dr. Taylor

4 DR. TAYLOR: I don't see any reason to
5 include any of those in the label.

6 DR. ABEL: What is the usual? What is the
7 standard?

8 DR. SEIGEL: We usually include critical
9 efficacy data to the extent we think it is useful
10 in guiding therapy. There is a lot of public
11 discussion and conversation and conflict about the
12 extent to which quality-of-life data are included
13 because, in some cases, they simply reflect the
14 same thing that the clinical data do. The patient
15 disease is better so they feel better.

16 In other cases, they provide additional
17 information and are probably usefully informative
18 if presented in an appropriate manner. So we don't
19 have a single uniform consistent approach there.

20 DR. ABEL: Then I don't think it is
21 necessary. I think you could provide references.

22 DR. KING: Ms. Knudson?

23 MS. KNUDSON: I am worried about putting
24 in the quality-of-life measures. It seems to me
25 that they could be easily misinterpreted by

1 patients if they saw them and by physicians also.

2 DR. KING: Dr. Katz?

3 DR. KATZ: I would not include that. The
4 other thing is the statistical difference was not
5 very great in that so that would be--

6 DR. KING: Confusing.

7 Dr. Morison?

8 DR. MORISON: I agree with that comment.
9 I think the PASI score is quite enough. I don't
10 think you need that.

11 DR. KING: So you don't want any
12 information?

13 DR. MORISON: I think apart from people
14 who are actually interested in psoriasis, they
15 don't really understand that particular score in
16 any case.

17 DR. KING: Okay. Dr. Epps?

18 DR. EPPS: No; I don't think it should be
19 included unless it is some generalized sentence,
20 one sentence.

21 DR. KING: Dr. Tan?

22 DR. TAN: Yes; I think it should be
23 included. You especially want to spell out the
24 primary outcomes is the PASI 75.

25 DR. KING: Dr. Raimer?

1 DR. RAIMER: I don't have any special
2 feelings either way.

3 DR. KING: I think we have two who would
4 like to include something and those who say it may
5 be confusing and not add anything.

6 Do you want to go ahead with VI, adults
7 with other form of psoriasis?

8 DR. WEISS: Please.

9 DR. KING: Dr. Swerlick? Should the
10 sponsor evaluate the safety and efficacy of
11 alefacept in people who have other forms of
12 psoriasis since we are really dealing with the
13 issue of chronic plaque psoriasis. So what should
14 they do? What must they do?

15 I am just reminded that you are the
16 consulting eunuch so be sure you just talk and we
17 don't vote.

18 DR. SEIGEL: We are not really asking for
19 votes here.

20 DR. KING: You notice I did not have any
21 yesses or nos, hands up. You can talk and say what
22 you want.

23 DR. SWERLICK: I would like to see that
24 study done.

25 DR. KING: Dr. Taylor

1 DR. TAYLOR: I think it should be done.

2 DR. KING: Dr. Abel?

3 DR. ABEL: I think there should be studies
4 particularly with erythrodermia palmar, plantar and
5 pustular, not necessarily guttate, which has a
6 better prognosis.

7 DR. KING: Ms. Knudson?

8 MS. KNUDSON: I am not a physician and I
9 am not a scientist. So I really don't know the
10 answer to that.

11 DR. KING: Dr. Katz?

12 DR. KATZ: Yes; I think they should be
13 done.

14 DR. KING: Dr. Morison?

15 DR. MORISON: I guess I am a little more
16 selective. I would be in favor of looking at
17 pustular psoriasis and erythrodermia psoriasis to
18 see whether there are any particular advantages
19 there. But marching through all those is going to
20 be done by people in any case.

21 DR. KING: Are you saying that the chronic
22 plaquelike psoriasis often evolves in erythroderma
23 and pustular psoriasis and so they should keep with
24 that as a severe adverse event or are you just
25 saying they should follow it anyway?

1 DR. MORISON: No; I am saying a separate
2 study of erythrodermia and pustular psoriasis would
3 be very helpful.

4 DR. KING: Dr. Epps?

5 DR. EPPS: Yes; other forms should be
6 studied.

7 DR. KING: Dr. Tan?

8 DR. TAN: Yes; I think it should be
9 evaluated.

10 DR. RAIMER: I particularly would like to
11 see pustular psoriasis studied.

12 DR. KING: We are providing a nonbinding,
13 non-vote, opinion.

14 VI (B), children. I think it comes down
15 to we may not be able to deal with this in a real
16 time frame we have here, but if you wish us to give
17 a sentiment, we can do that on 1, 2 and 3. Is that
18 what you would like for us to do?

19 DR. WEISS: Yes.

20 DR. KING: Sentiment only. Dr. Swerlick,
21 should alefacept be studied in pediatric patients
22 with psoriasis. If so, what is the timing of the
23 studies, premarketing, postmarketing. If we have
24 approved it, what should the registry do about the
25 children with psoriasis and alefacept?

1 DR. SWERLICK: I think you need a
2 controlled trial within the pediatric population.
3 The endpoints would be similar to the endpoints
4 associated with adult psoriasis. There is a
5 particular issue with childhood immunizations and
6 that whole issue that needs to be addressed that is
7 somewhat distinct from the adult population.

8 DR. KING: So you actually did No. 1, 2
9 and 3 altogether. Dr. Taylor?

10 DR. TAYLOR: I am in a medical center that
11 has a pediatric dermatologist, so I don't see
12 patients with psoriasis who are pediatric age. It
13 is hard for me to have much of a feel for this. So
14 I am not going to comment.

15 DR. KING: Abstain; right

16 DR. TAYLOR: Yes.

17 DR. KING: Dr. Abel?

18 DR. ABEL: I believe we should wait for
19 accumulation of postmarketing safety data in adults
20 before we proceed to studies in children. Unlike,
21 however, atopic dermatitis, we are not dealing with
22 infants so much as I believe older school-age
23 children.

24 DR. KING: Dr. Knudson, do you want to
25 pass?

1 MS. KNUDSON: No.

2 DR. KING: Actually, I wanted your input
3 as someone who deals with this all the time.

4 MS. KNUDSON: Right. I very much would
5 like to know what the incidence is in children.
6 The bimodal figures that were given indicated from
7 16 to something and I didn't get any figure less
8 than age 16. I have not sense of how often this
9 occurs.

10 DR. KING: Dr. Katz, you know about this.

11 DR. KATZ: I don't see that many children
12 with psoriasis, but it must be done premarketing
13 not postmarketing. So I should think it should be
14 restricted studies.

15 DR. KING: So you want to focus specific
16 study on children addressing all these issues 1, 2
17 and 3. Is that the sense?

18 DR. KATZ: I would wait until further
19 postmarketing occurred and then only do it in
20 children premarketing.

21 DR. KING: Dr. Morison?

22 DR. MORISON: I wouldn't be comfortable
23 advocating doing a study like this in children at
24 this point in time until I had more information of
25 what is happening in adults. The reason I say that

1 is because most children, and I do see a lot of
2 children with psoriasis, not a huge number but
3 quite a significant number, most of them are in
4 their teens. It is extremely rare that they do not
5 respond to, say, narrow-band UVB. I can't remember
6 the last time I had to put a person on a systemic
7 agent.

8 So these people are reasonable cared for
9 at this point in time. To turn around and ask the
10 company to do a study with their present knowledge
11 in a group of children is sort of like--well, I
12 wouldn't be comfortable with it.

13 DR. KING: Dr. Epps?

14 DR. EPPS: I would wait until there was
15 more data in adults. If you are going to select a
16 pediatric population, I would be more interested in
17 the ones with--whether or not it would be helpful
18 with the psoriatic arthritis and psoriasis patient
19 group because they are often on methotrexate. They
20 are often on other medications.

21 If it would benefit other--their arthritis
22 as well as their skin or if it had some kind of
23 effect there, that would be wonderful because the
24 arthritis is particularly disabling. So, as far as
25 efficacy in the others, I agree. It should be

1 premarketing so, at this point, not approved for
2 children.

3 DR. KING: Dr. Tan?

4 DR. TAN: Yes; I think the study for the
5 pediatric patients should be delayed and wait for
6 further data on adults.

7 DR. KING: Dr. Raimer?

8 DR. RAIMER: I agree. I would not feel
9 comfortable treating children at this point in
10 time. Possibly revisiting the issue a couple of
11 years after the drug has been on the market might
12 be a reasonable thing to do.

13 DR. KING: I think the issue is quite
14 simple that they don't want to do it right now. If
15 there is going to be a target population, it would
16 probably be psoriatic arthritis, extremely rare.
17 The sponsor may have difficulty getting those
18 patients and they certainly respond differently to
19 a lot of therapies.

20 Can we then skip to concomitant HIV
21 infections? Given the effect on lymphocyte
22 depletion, please discuss whether patients with
23 concomitant HIV infections should be studied. Dr.
24 Swerlick?

25 DR. SWERLICK: That is a tough one. It

1 seems to me that those patients would be at a
2 particularly high risk of opportunistic infections.
3 However, they probably represent a subpopulation of
4 patients who have much higher risk, in fact, from
5 using other immunosuppressive medications. So I
6 don't think I would be particularly averse to the
7 trial that is a separate trial to treat patients
8 with HIV disease, but I certainly wouldn't
9 recommend it on the label.

10 DR. KING: What would you put on the
11 label? Contraindicated?

12 DR. SWERLICK: Yes.

13 DR. KING: Just trying to pin you down
14 because I think that is what they want to know.

15 DR. SWERLICK: Yes.

16 DR. KING: Dr. Taylor

17 DR. TAYLOR: I agree this is kind of a
18 tough issue. I would think that, once it is on the
19 market, that those people who take care of people
20 with HIV infections are going to study it one way
21 or the other. You will have some knowledge about
22 it in a fairly short period of time.

23 I don't know that you should label it as
24 prohibited for those patients. Maybe something
25 that is a warning.

1 DR. KING: Do you want it in a black box?

2 DR. SEIGEL: I just want to say, as a
3 matter of practice here, that for theoretical
4 concerns that haven't been studied, our tendency is
5 not to write something like this as a
6 contraindication. First of all, it makes it very
7 hard to study it because of liability concerns. So
8 often a warning simply that there are not data and
9 there are real concerns works better in terms of
10 alerting people, allowing people to do the studies
11 or consider the options.

12 DR. KING: We understand. That is why we
13 are trying to get it out there. If you just put it
14 in in the warning box, then you alert the
15 appropriate people as to what may happen.

16 Dr. Abel?

17 DR. ABEL: I think it has to be in there
18 that HIV infection was an exclusion criterion in
19 the clinical trial so that we have no data on that.
20 That should be a warning.

21 MS. KNUDSON: I concur, absolutely.

22 DR. KING: Dr. Katz?

23 DR. KATZ: I agree with that.

24 DR. KING: Dr. Morison?

25 DR. MORISON: I sort of agree with it and,

1 also, I guess we haven't addressed the issue of
2 what you are going to screen for before you put a
3 patient on this drug. We haven't discussed that
4 issue. I personally would be doing--I treat a lot
5 of HIV-positive patients who have psoriasis. I
6 would, myself, be doing an HIV test before I put
7 them on this just as I do with the few people I put
8 on cyclosporine.

9 DR. KING: So that is your recommendation,
10 that, before you deplete the T-cells, you would
11 like to know what their baseline is and whether
12 they have HIV positivity?

13 DR. MORISON: Yes. But we haven't really
14 discussed that issue.

15 DR. KING: No; we haven't. That is why I
16 was trying to bring it up for the FDA--

17 DR. MORISON: I would screen them for
18 hepatitis. I would screen them for HIV before I
19 put them on a drug like that.

20 DR. EPPS: I agree with Dr. Abel, a
21 sentence to the effect that it was an exclusion
22 criterion and it was not tested in patients with
23 HIV.

24 DR. KING: Dr. Tan and Dr. Raimer?

25 DR. TAN: Yes; I agree it should just

1 reflect the people--have the caution there.

2 DR. RAIMER: I agree.

3 DR. KING: At this point, I am supposed
4 to, I think, ask the FDA who can ask whatever
5 question they want remaining. I don't know about
6 asking the sponsors because, as a substitute
7 driver, I am not sure what racetrack we are on
8 here.

9 DR. SEIGEL: That was, I think, a
10 remarkable job of providing outstanding advice on a
11 broad variety of issues. I think at this point,
12 there is still, obviously, work ahead as advised by
13 the committee but we are quite satisfied with what
14 we have heard today and we thank you very much.

15 DR. KING: I have turned it back over to
16 the Executive Secretary of her to declare where we
17 are and what we are going to do next.

18 MS. TEMPLETON-SOMERS: I think we are
19 done. Thank you very much for coming.

20 [Whereupon, at 4:15 p.m., the meeting was
21 adjourned.]

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