

1 sensitivity or would have a meaningful effect? And if it would
2 have a meaningful effect in a broader setting of uncomplicated
3 situations, then I would argue to allow those patients into the
4 trial. So it's really a question for my clinical colleagues,
5 once we focus on uncomplicated, where we have accepted it would
6 be appropriate to do a superiority trial, is it reasonable to
7 anticipate that you would have likely important or comparable
8 level of benefit in minor skin abscesses, folliculitis,
9 furuncles, impetigo and some definition of uncomplicated
10 cellulitis? Or are there subsets of those that you think would
11 far and away be more sensitive to benefit?

12 BARTH RELLER: Dr. Kauffman?

13 CAROL KAUFFMAN: I would say that the only two
14 things that I'd be interested in giving antibiotics to would be
15 impetigo and small abscesses. But folliculitis and furunculosis
16 generally just aren't treated and I can't imagine putting them
17 in a study. And cellulitis, cellulitis to me needs to be
18 treated and I consider it complicated.

19 BARTH RELLER: Dr. Rex.

20 JOHN REX: I just want to be sure that I had
21 straight in my head that the committee was lined up on what it
22 meant to be over the edge, in terms of it's got to have

1 antibiotics. And we did talk earlier, and so I'm first talking
2 about the definition of what's -- I guess there's truly
3 uncomplicated, and let's take impetigo as sort of the
4 prototypical truly uncomplicated. Somewhere over to the right
5 there are -- there's real erysipelas, real cellulitis. And
6 somewhere in between those things there's got to be a tiny
7 version of erysipelas, a tiny version of cellulitis.

8 I'm sort of struggling to describe this. And the
9 idea that I thought I heard was that the distinction begins --
10 if you truly believe that you've got a tissue infiltrating
11 process with a bacterium, even you know a patch of cellulitis, a
12 patch of erysipelas, the only time that that's uncomplicated, if
13 this is what I heard and that's what I want to ask, is when it's
14 a normal host who has no symptoms with it. So that would be the
15 requirement, and maybe it's not a scary -- it's not in a bad
16 place. So if you sort of meet those criteria that's
17 uncomplicated erysipelas, you know, whatever that is,
18 uncomplicated cellulitis.

19 But if it's a abnormal host, or there are symptoms
20 or if it's in a bad place, tissue infiltrating process, even if
21 it's not dramatically large right now, that's probably falls
22 into this category of complicated. And that's what I'm asking

1 to have verified. I think that's what I have heard the
2 committee say is that you have crossed the boundary at that
3 point and basically that's what Dr. Kauffman said. Is that a
4 fair sense of it?

5 THOMAS FLEMING: Could we ask FDA to give their
6 definition again? FDA gave a definition at the beginning.

7 BARTH RELLER: Dr. Cox.

8 EDWARD COX: I can give you the definition from the
9 '98 guidance -- draft guidance document. It's "The
10 uncomplicated category includes such clinical entities as simple
11 abscesses, impetigenous lesions, furuncles and cellulitis,
12 infections that can be treated by surgical incision alone such
13 as cases of isolated (meaning one solitary area of infection),
14 furunculosis or folliculitis should not be included in clinical
15 trials." So that's for uncomplicated.

16 For complicated, just to have the contract, "The
17 complicated category includes infections either involving deeper
18 soft tissue or requiring significant surgical intervention such
19 as infected ulcers, burns and major abscesses or a significant
20 underlying disease state that complicates the response to
21 treatment. Superficial infections or abscesses in an anatomical
22 site such as the rectal area where the risk of anaerobic or

1 gram-negative pathogen involvement is higher should be
2 considered complicated infections."

3 BARTH RELLER: Dr. Rex.

4 JOHN REX: And it was that line about "and a
5 significant underlying disease state that complicates response
6 to treatment" that drives me to talk about abnormal hosts or bad
7 locations. You know, that's what I'm cueing off of. And when
8 you look at recent trials, people interpret those somewhat
9 differently but, you know, the themes are as I have outlined.

10 THOMAS FLEMING: Although I didn't hear symptoms, so
11 you had actually said symptoms would put you into automatically
12 complicated, I'm not hearing that.

13 EDWARD COX: And Dr. Fleming you are correct,
14 however looking at protocols and the inclusion/exclusion
15 criteria, symptoms would also typically be you know, part of a
16 complicated definition. You know, there'd be a listing of a
17 number of different clinical findings and, you know, various
18 symptoms, you know, fever, you know, white count, those types of
19 things would the types of additional findings that would push
20 you into a complicated category.

21 BARTH RELLER: Dr. Goetz.

22 MATTHEW GOETZ: I think though as we started to talk

1 about what could be uncomplicated cellulitis, we have to
2 recognize that our diagnostic tools for cellulitis that involves
3 no constitutional symptoms in a physiological normal host, in a
4 a non-jeopardy location, our tools are very poor for making that
5 diagnosis, because what we're going to be basically left with is
6 red skin.

7 And our specificity for knowing that's due to
8 bacterial infection rather than another cause is so poor. When
9 we're certain, and we have diagnostic certainty that it's
10 cellulitis, it's almost always complicated and requires
11 antibiotic therapy and it'd be very difficult to enroll patients
12 in such a study where they might be randomized to get no
13 therapy.

14 BARTH RELLER: In following up on Dr. Cox's
15 definition it would seem to me, from the sense of today's
16 discussion, that there entities that clinicians feel are caused
17 by bacteria that may response to therapy, but that from these
18 discussions that the appropriate place to -- or the method of
19 studying them would be a superiority trial where you wanted to
20 show effectiveness but where currently these clinical entities
21 -- it's not sufficiently certain that there is a therapeutic
22 effect over and above placebo or simply drainage. And those are

1 the ones.

2 I mean if they were not infected at all, I mean
3 there was no organism, then how could you show a difference, and
4 why would you waste money doing a clinical trial? So there has
5 to be infection, antibiotics may make a difference but we don't
6 know how much of a difference and those are the ones that you
7 want to enroll in this trial.

8 And if it's necessarily to give antibiotic therapy
9 to preserve life or function, they're not candidates for such a
10 superiority trial, and they are not uncomplicated. Now I
11 realize that one has to be more precise than that but that seems
12 to me the sense of what we're going after here. Other comments?

13 Rex and Fleming.

14 JOHN REX: The 1998 guidance was -- I mean Tom asked
15 Ed to read that into the record, those guidances were not
16 extensive -- this has been sort of deepest debate I'm aware of
17 in the public forum about them. And I think it's been helpful
18 to me to hear that debate. And point at the old literature and
19 sort of put it all in context that the people in the old
20 literature who went to see a physician were ones who came
21 because of symptoms.

22 And so that is -- I think that's got to be the path

1 to physiologic link is that if there's some constitutional
2 response to it, that's probably the thing that gets you over the
3 border and those are folks who probably need a drug rather than
4 just observation, because that suggests that there's something
5 going on. And so it's the -- so the break that I keep hearing
6 is normal host, asymptomatic and but beyond that that's where if
7 it's an abnormal host or they are symptomatic, they've come for
8 a reason and that's the group that does have at least some
9 portion of the effect that we heard about this morning.

10 It may seem I'm picking very finely on this point
11 but I am interested in being sure that we recognize that there
12 is a mild version at presentation of what could -- of
13 complicated -- complicated is such a bad word because we
14 conflate the severity of illness with the severity of the
15 (inaudible) with the risk for progression all in one term. And
16 that's what's kind of driving us nuts right here.

17 But I do want to recognize there's a milder version
18 at presentation of a syndrome that is the beginning of
19 complicated skin infection and that those folks are the ones who
20 would progress and those folks do have a treatment effect. And
21 that's the point I think that the committee seems to be dancing
22 around the edge of. And I'd like to just lay it out on the

1 table and say it.

2 BARTH RELLER: Without getting into a specific
3 temperature or white count or shift to less mature forms it
4 would seem that what we're really talking about is where there
5 is -- when there is absence of systemic or hematologic response
6 in a patient who has the capacity to respond. And it seems to
7 me one could come up with some boundaries there that would be
8 reasonable to include patients who did not have those aspects.
9 Dr. Steckelberg.

10 JAMES STECKELBERG: Just a question. This may have
11 come up in discussion before but where do the superficial
12 surgical site infections, the superficial ones that respond just
13 to opening the wound, where did those fit in?

14 EDWARD COX: Do you want me to try, Dr. Reller?

15 BARTH RELLER: Well I was going to say it depends on
16 whether they have those -- you know, the elevated white count,
17 etcetera whether the cellulitis is spreading out or whether
18 taking out the stitch it all resolves quickly.

19 JAMES STECKELBERG: well I assume if they're toxic
20 or they have septic symptoms, then they're complicated.

21 BARTH RELLER: Dr. Cox.

22 EDWARD COX: No, that's fair. I mean it's a

1 question of what actually is going on with that wound. I mean
2 given that it is a wound, it would, you know, it would be
3 something that would typically be in the complicated category
4 but you know, the question of what's going on with that wound,
5 is there surrounding cellulitis, is there something, you know,
6 that needs to be done beyond just simply opening up the wound.

7 JAMES STECKELBERG: So then I assume some of them
8 would be uncomplicated and should they be included then. Your
9 question is what should be included to enroll patients there,
10 would that also be a category?

11 BARTH RELLER: Dr. Cox.

12 EDWARD COX: I guess I mean I think you're bringing
13 up an important point, and that is, you know, thinking about,
14 you know who are these patients and what do we know about you
15 know, the likely effect of antimicrobial therapy in them. You
16 know, in the setting where, you know, and this has I think been
17 brought up, you know, in the discussion so far, in the setting
18 where we think there really is something that may progress there
19 or that there may be problems, and you know, perhaps maybe that
20 group of patients with wound infection would be appropriate for
21 complicated skin. Whereas, if simply opening up the wound is
22 going to be enough to make the infection essentially resolve,

1 then perhaps that would be something that would be appropriate
2 for superiority design. You know, where in fact the benefit of
3 antimicrobial therapy would be less clear.

4 But I think you're bringing up -- you know, also the
5 important point that this is something that we'll need to be
6 mindful of when we talk about you know, wound infections.

7 BARTH RELLER: Dr. Kauffman.

8 CAROL KAUFFMAN: Could I just make a comment that I
9 think erysipelas just doesn't belong in here. I mean the
10 classic definition of erysipelas is a systemic illness. It has
11 a border, it's clearly spreading, those patients are really ill.

12 And so I think it's the wrong word in the wrong place. John,
13 there may be mild cellulitis, but I'm not sure there's ever mild
14 erysipelas.

15 JOHN REX: But I think that's what Brad said as
16 well. I'm just -- I was trying to get out the definitions and
17 be sure that we'd beaten on it because we've gone to a lot of
18 trouble to get to everybody in this room to have the
19 conversation and I would hate to miss the opportunity to discuss
20 it.

21 BARTH RELLER: Dr. Fleming.

22 TOM FLEMING: I think Dr. Kauffman's response way

1 back at the beginning is still largely in place having gone
2 through this discussion that either folliculitis and furuncles
3 would be uncomplicated, it's not probably where we would go, we
4 would go towards minor skin abscesses and impetigo. And whether
5 we would get into cellulitis has been again cast in doubt
6 because we're struggling with defining what an uncomplicated
7 cellulitis is.

8 There are four ongoing major trials, two of which
9 are being done by NIAID and I was just looking at one of these.
10 It's a stratified, randomized placebo controlled trial of
11 bacterium for outpatient treatment of cellulitis, including
12 erysipelas and/or abscess in children and adults. So it'd be
13 really interesting to get into that protocol because they do
14 seem to be pushing at least into being a little more inclusive
15 than we just said.

16 But certainly what Dr. Kauffman indicated seems to
17 be well within the range of what you would consider an
18 appropriate superiority trial setting.

19 BARTH RELLER: Other comments? I do not think we
20 need a specific vote on this question. Dr. Laessig and Dr. Cox,
21 any additional queries for the committee?

22 EDWARD COX: No I think the discussions have been

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Page 312

1 very helpful. You know, I think there's a number of challenging
2 issues that we've been able to discuss this afternoon. And we
3 appreciate everybody's thoughts and comments.

4 BARTH RELLER: I should like to thank all of the
5 committee members for their rigorous discussion and
6 contributions. We will reconvene at eight o'clock tomorrow
7 morning. We've discussed margins and I'm happy to say, thanks
8 to your splendid cooperation, we're less than a margin of one
9 percent of the total of time allotted at four minutes to five
10 o'clock. Thank you very much.

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