

1 at the time the protocol was designed. I have not
2 reviewed whether or not those have changed at all
3 currently but I would expect that they likely have not
4 but I'm not certain of that.

5 The instructions for use that existed at
6 the time that this protocol was designed were silent as
7 to which technique would be appropriate and both
8 techniques were appropriate for use of the material.
9 Whether or not Inamed has since created marketing
10 materials that then direct people to use something
11 different from what they had directed in 2003 when we
12 designed the study, it's possible that they've created
13 some new marketing literature in that process and I
14 appreciate Dr. Newberger, your bringing that to our
15 attention. But the way the study was designed was
16 using the available information at the time, using best
17 practices for this material based upon the knowledge
18 that we had in 2003 when the protocol was written and
19 reviewed with FDA.

20 Also importantly, this whole question gets
21 to -- whether or not collagen was appropriately used
22 really gets to the question of did the patients achieve

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1 optimal correction. In fact, the key intent in being
2 able to compare the Radiesse treatment group versus the
3 collagen treatment group is about whether or not the
4 patients achieved optimal correction. The study was
5 designed to ensure the patients achieve optimal
6 correction by virtue of allowing continued treatment
7 until the patients got there.

8 And so the fact that each of the patients
9 received multiple injections to achieve an optimal
10 correction point on the collagen side creates the
11 baseline for the comparison between the two groups and
12 it's clear that each of the clinicians believe that the
13 technique that they were using was appropriate for
14 their patients and was successful at achieving optimal
15 correction because they ceased providing treatments
16 when that was reached. The other point that may be
17 instructive on this, if we can pull up the slide, is
18 that we have, in fact, on a site by site comparison
19 given the data that we've just learned that three of
20 the sites used a threading -- oh, actually, this slide
21 is -- please take this slide off. That slide actually
22 only has the Radiesse folds. We need to do the similar

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1 analysis for the CosmoPlast folds to determine the site
2 by site comparison. I apologize that that data would
3 not be applicable to this point.

4 But we will do an assessment of the
5 relevant data and the best indication, really would be
6 to look at the photographs for optimal correction and
7 determine that the patients, in fact have reached
8 optimal correction. We have the photographs for every
9 patient if you'd like to go through that. We also have
10 the photographs for representative patients and Dr.
11 Bass already presented to you the first four patients
12 as a serial group from each of two clinical sites, and
13 you can see for yourself that the patients did in fact,
14 achieve optimal correction on the collagen side. Thank
15 you.

16 CHAIRMAN LoCICERO: Just for completeness
17 sake, since one site is serial injection, how many
18 patients were entered from that site?

19 DR. BASTA: That site had 16 of the 117
20 patients.

21 CHAIRMAN LoCICERO: Dr. Blumenstein?

22 MEMBER BLUMENSTEIN: Well, I mean, I'm

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1 still curious about why you didn't have the photographs
2 for the optimal correction score. That would have --
3 that would go a long ways towards providing some data,
4 some assurance that there was an equal or approximately
5 equal baseline.

6 MEMBER BLUMENSTEIN: I'm sorry, you said
7 we should have provided the --

8 MEMBER BLUMENSTEIN: Having the
9 photographs from the optimal -- from the judgment of an
10 optimal achievement scored, that in other words, you
11 said previously that you didn't score the photographs
12 taken at the time that it was judged that the treatment
13 was optimally achieved. Another thing is that you had
14 a limit of three sessions and so what would happen if,
15 for example, in the control arm that optimal --
16 optimality was not achieved, you had to stop there.

17 And the third thing is that I'm still
18 bothered by the fact that there's an admitted whole
19 site that violated the protocol because the protocol
20 clearly states and goes on to state other things about
21 it that this tracking method will be used for both
22 products.

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1 CHAIRMAN LoCICERO: Okay, there's still
2 another question on the floor. Dr. Bass, there were
3 two significant differences that you were going to talk
4 to us about.

5 DR. BASS: Yes, this was a comparison of
6 the lipoatrophy study patients and the nasolabial fold
7 study patients. And at one interval, there was a
8 higher incidence of pruritus that was of statistical
9 significance in the nasolabial fold study group. This
10 was one patient in the lipoatrophy group and five
11 patients in the nasolabial group. It's a small number
12 of -- in terms of the overall incidents and it's an
13 adverse event that was of short duration.

14 The same applies to the erythema, the
15 numbers of patients who experienced erythema was more
16 significant. There was some difference between the two
17 groups, again, with more erythema in the nasolabial
18 group which is a more superficial injection in some
19 circumstances and this was likewise a short duration
20 injection, duration result or adverse event. So I
21 don't have a mechanistic explanation for why that
22 difference was observed but the time course and the

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1 experience of these kind of events is something that's
2 seen again pretty much with all injectable therapy use
3 so it's not clear if that's a material-related
4 phenomenon, an injection technique-related phenomenon
5 or just a product of the small numbers of patients
6 involved in those particular adverse events.

7 CHAIRMAN LoCICERO: Dr. Olding, do you
8 have additional questions concerning the African
9 American patients versus the Caucasian patients
10 concerning erythema?

11 MEMBER OLDING: No, but I did think about
12 that in the break we had. Were the patients blocked
13 the same way, both the HIV lipodystrophy, if they were
14 blocked with say Xylo with Epi then they might not have
15 shown those things as much as the nasolabial folds if
16 they were treated differently.

17 DR. BASTA: The clinical protocols were
18 flexible as to anesthesia methodology that would be
19 used by each investigator and so we would, again, have
20 to review the complete patient records to determine
21 what block was used for what number of patients and I
22 don't believe we have that analysis immediately handy.

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1 The other element on this point is the conversation
2 we're having regarding persons of color reflects the
3 fact that we had only two African American patients in
4 the nasolabial fold clinical trial. It would certainly
5 be a reasonable conclusion of the panel that that's
6 inadequate to determine safety in that population. We
7 felt that it was important in the context of having
8 information from subdermal injection in another
9 population that included African American patients to
10 have that data also be available for consideration but
11 it's -- but we don't presume to draw a conclusion that
12 that, in fact, should be applicable. That would be your
13 medical judgment as to whether or not that provides
14 adequate comfort in that population or if an additional
15 study might be needed in an African American population
16 in order to determine safety.

17 We presented the data which we have
18 available and unfortunately, the number of African
19 American patients in our nasolabial fold study was
20 small.

21 MEMBER OLDING: Thank you.

22 CHAIRMAN LoCICERO: Dr. Leitch?

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1 MEMBER LIETCH: Back to the question of
2 comparing those two populations, would it be safe to
3 say that the lipodystrophy patients' injections would
4 have been deeper than the nasolabial fold injections?
5 I know both of them say subdermal but I think this
6 morning in the presentation there was discussion about
7 deeper injections.

8 DR. BASTA: It is possible that that was
9 the case, but again, that would be specifically a
10 conversation with each of the investigators as to
11 whether or not in addition to subdermal, if they inject
12 it at another level.

13 MEMBER LIETCH: I guess the reason I
14 asked, I guess --

15 DR. BASTA: The guidance was for subdermal
16 injections.

17 MEMBER LIETCH: -- the reason I was asking
18 that is with the nasolabial fold it's kind of a line.

19 DR. BASTA: Right.

20 MEMBER LIETCH: And I'm not a plastic
21 surgeon, so I don't know exactly how this is done, but,
22 you know, the defect is a linear defect whereas with

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1 the lipodystrophy it's more of a broad plane defect.
2 So I can envision a person might try to run that line
3 which could give a more superficial injection, which
4 might be a bigger problem than a person with more skin
5 pigmentation because there might be more reaction in
6 the skin than if the injection was truly subdermal and
7 more diffuse.

8 DR. BASTA: Your medical judgment here
9 might be instructive in that regard. I don't know that
10 we have that level of detail regarding each injection.

11
12 Per Dr. Blumenstein's question earlier as
13 to the number of patients that had stopped after three
14 injections to determine whether or not the patients, in
15 fact, reached optimal, I believe only 7.7 percent of
16 the collagen patients received three injections. The
17 others were determined to be -- to be optimally
18 corrected after two injections, so that that limit in
19 the protocol did not have a material or should not have
20 had a material impact on a significant number of
21 patients in the study. The majority had reached
22 optimal correction after only two corrections.

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1 CHAIRMAN LoCICERO: Dr. Miller.

2 MEMBER MILLER: Yes, I have a question for
3 Dr. Bass. Is there a difference in technique for
4 using the collagen and the -- you know, your new
5 material and is there -- would somebody have to learn
6 those differences or would they be -- if they know how
7 to inject collagen, can that knowledge just translate
8 directly into, you know, the new material or would you
9 have to relearn some new techniques to inject the new
10 material?

11 DR. BASS: I think all of the injectable
12 materials have small differences in their handling
13 properties, the characteristics of the syringes they're
14 preloaded into, but these are relatively minor
15 variations. Again, unlike the lipoatrophy corrections,
16 which are sizeable in volume and in anatomic areas that
17 are not routinely treated by aesthetic providers or by
18 all aesthetic providers, the nasolabial fold
19 application and these sort of commonplace aesthetic
20 applications are fairly characteristic.

21 I think the technique relates much more
22 closely to techniques used with Restylane because

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1 threading is more common with Restylane than it is with
2 collagen materials but all of these are minor
3 variations that require a very short learning curve,
4 not a complete transition to a new approach.

5 MEMBER MILLER: Thank you.

6 CHAIRMAN LoCICERO: Are there any further
7 questions of the sponsor? If not, we're ready for the
8 FDA presentation.

9 DR. LERNER: Well, this afternoon I'm
10 going to be presenting T050052, Radiesse for nasolabial
11 folds. I would just like to comment that your
12 discussions over the last 45 minutes or so have
13 basically encompassed everything that I was intending
14 to say, so I'm going to go fairly quickly through
15 these. And I'm going to be highlighting the safety
16 issues and our statistician, Dr. Bonangelino will be
17 discussing the effectiveness data.

18 I'm going to just really go quickly
19 through these rather than just sit and read all of
20 them. You've seen our review team. The objective of
21 this presentation is to review the data of the PMA and
22 present the panel with our concerns or issues for

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1 further discussion. You know about the device. You've
2 heard about the study design. Inclusion criteria, as
3 noted, included a Lemperle Rating Scale of three or
4 four. The protocol allowed for two repeat injections,
5 no over-correction and follow-ups to six months with
6 touch-up at that point.

7 Quickly, a study synopsis, you've been
8 discussing that in the last half hour or so, just to
9 note that the patients did have a diary for two weeks
10 after each injection to collect some of the immediate
11 adverse events which are seen in the injectable filler,
12 with the injectable fillers. Photographs were taken at
13 each visit and there was a patient guess at which
14 device they were getting at three and six months. The
15 highlights, loss to follow-up was minimal. Of the 117
16 patients receiving treatment, 115 were available for
17 the primary effectiveness measurements at three months
18 and 113 at six months. The safety analysis included
19 all 117 patients of whom 113 were available at six
20 months.

21 Adverse events were generally related to
22 the injections and the protocol of deviations were few

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1 and minor. We've discussed here a lot about the
2 patient demographics. You've seen this slide about the
3 amount of material injected at the two-week and four-
4 week period. As discussed a few minutes ago, the
5 safety profile included five major adverse events,
6 ecchymosis, edema, erythema, pain and pruritus and
7 there again, is that other characteristic of other. We
8 did look through that data and there was no real
9 reporting of what we discussed this morning about
10 nodules. There was I think only one nodule reported.

11 We discussed earlier the radiographic
12 evaluations that were performed and I won't go through
13 that again. In summary, one of our main concerns was
14 that there were few persons of color in this study and
15 your discussions over the last half hour or so
16 addressed this. Most adverse events were minor and the
17 radiographic evaluation was adequate. Before the
18 effectiveness data is given by Dr. Bonangelino, I just
19 wanted to show you this one set of photographs.
20 Radiesse is on the left and control in the right. This
21 is before treatment. This is at optimal correction,
22 three months and six months and you can see that the

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1 patient has -- the control has gone back toward
2 baseline. Dr. Bonangelino.

3 DR. BONANGELINO: Good afternoon. Today I
4 will be presenting some aspects of the effectiveness
5 results for this pre-market application. The basic
6 outline of the study is as follows, and this may be a
7 bit of repetition so please bear with me. This was a
8 split-face, randomized design, comparing Radiesse to
9 CosmoPlast, which is an approved human collagen
10 product. The primary end point was a change in
11 Lemperle Rating Scale scores at three months. The
12 sample size was 117 patients and the primary
13 effectiveness analysis was performed by three physician
14 evaluators from photographs in a masked manner.

15 The first statistical issue I would like
16 to address concerns the non-inferiority or superiority
17 of the Radiesse treatment to the control. First, note
18 that non-inferiority of Radiesse to CosmoPlast was
19 demonstrated at three months. The problem is that the
20 control was not at all effective at three months.
21 Therefore, non-inferiority is not a appropriate to
22 evaluate. However, note the superiority of Radiesse to

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1 CosmoPlast was also demonstrated at three months.

2 As a prelude to what follows, note the following
3 statistical comment regarding assessing both non-
4 inferiority and superiority. This is that it is an
5 accepted principle that with proper planning it is
6 possible to use the same data to test first for non-
7 inferiority and then for superiority without a
8 statistical penalty provided the non-inferiority margin
9 were pre-specified. This was the case for the Radiesse
10 statistical plan.

11 The criteria which were used for clinical
12 superiority were as follows. First, statistical
13 superiority should be demonstrated. Second, at least
14 50 percent of evaluation should rate Radiesse superior
15 to the control. Third, the point estimate of the
16 difference in the mean change in Lemperle Rating Scale
17 score should be an improvement of at least one point.
18 Finally, there should be effective masking of the
19 evaluators of the primary end point.

20 For the primary effectiveness results, the
21 sponsor used the median rating of the three evaluators.

22 Using this method approximately 85 percent of

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1 evaluations rated Radiesse superior at three months.
2 With the same data, McNemar's test was highly
3 significant for statistical superiority of Radiesse at
4 three months. The P value for this comparison was less
5 than 0.0001. Thus, the first two criteria of
6 statistical superiority and of greater than 50 percent
7 of evaluations rated superior were met at three months.
8

9 To assess the mean difference between
10 treatments, the sponsor used a model that included all
11 three evaluator assessments. The sponsor found the
12 following 95 percent confidence interval for the mean
13 difference of Radiesse minus the control and you can
14 see it there at the bottom of the screen. Note that
15 negative values denote greater effectiveness and
16 therefore, the mean improvement was greater than one
17 point. This can be seen as the entire confidence
18 interval as below negative one. FDA had concerns about
19 the sponsor's statistical model and conducted our own
20 analyses of the effectiveness data using a repeated
21 measures model with an exchangeable correlation
22 structure among the three evaluators.

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1 It can be seen in the confidence interval
2 at the bottom of the screen that a 95 percent
3 confidence interval for the mean difference is slightly
4 wider than the sponsor's but once again, the entire
5 confidence interval is below negative one. Thus, the
6 qualitative conclusion is the same. The difference in
7 mean improvement is greater than one point and another
8 criterion for clinical superiority has been met at
9 three months.

10 The final criterion for clinical
11 superiority was effective masking of the study. In
12 this regard effectiveness of masking among the three
13 evaluators does not appear to have been assessed. Thus
14 there is a remaining question about the adequacy of the
15 masking.

16 The second primary statistical issue which
17 I have chosen to address concerns the degree of
18 agreement among the three evaluators in the study. I
19 have chosen to comment because at first glance the
20 level of agreement appears somewhat low. One common
21 way to measure agreement between more than one observer
22 is the kappa statistic and the general idea can be seen

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1 in the following slide. Note that the rating by
2 Evaluator 1 is along the left side and the rating by
3 Evaluator 3 is along the top. Those numbers along the
4 diagonal are the observations where Investigator 1 and
5 Investigator 3 agree.

6 The kappa statistic measures the
7 proportion of observations in the diagonal adjusted for
8 the proportions that would have occurred by chance.
9 Weighted kappa which is what was used by the sponsor,
10 includes off diagonal observations, weighted by their
11 closeness to the diagonal. Here you see one
12 interpretation of possible kappa values. Note that
13 this is only a rough guide, particularly since the
14 sponsor used weighted, not unweighted kappa. As
15 mentioned previously, the problem is that the kappa
16 measures of inter-observer agreement appear to be
17 somewhat low. Weighted kappa values range from
18 approximately 0.3 to 0.5 indicating only fair to
19 moderate agreement among the three reviewers.

20 However, note that it could be argued that
21 noise in the assessment is precisely the reason for
22 having more than one evaluator. In addition, kappa

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1 values were computed on month 3 photographs
2 individually rather than on the relative difference
3 between Radiesse and the control. That is, two
4 evaluators could have rated individual pictures
5 differently but could have been consistent in the
6 comparison of the Radiesse side to the control side.
7 Furthermore, other measures show greater agreement.
8 The following table shows that the percentages rating
9 Radiesse superior, equivalent or inferior are highly
10 similar among all three reviewers at three months.

11 In addition, in FDA's repeated measures
12 model, the correlation among the three reviewers was
13 estimated to be 0.76 at three months. After adding a
14 term that adjusted for baseline differences, the
15 estimated correlation among evaluators was almost 0.9
16 at the three-month time point.

17 Other statistical issues; one such issue
18 could be missing data. However, for this PMA this is
19 not an issue as only two of 117 patients were missing
20 at three months. In addition, missing values were
21 counted as no change for both treatments. Note that
22 this is conservative in a superiority comparison.

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1 Another possible issue is whether there were side
2 effects for effectiveness or safety. With regard to
3 effectiveness, there were no significant differences
4 among the four study sites. With regard to safety,
5 there do appear to be some differences among sites for
6 ecchymosis and pain. These differences appear to be
7 due to Sites 3 and 4 showing relatively more adverse
8 events for the control than for the treatment.

9 My conclusions are first, that relatively
10 low kappa values for inter-observer agreement may not
11 be as problematic as might have appeared. Second, it
12 was demonstrated that at three months statistical
13 superiority was met, a majority of evaluations rated
14 Radiesse superior and the difference in mean
15 improvement was greater than one point. However, note
16 that there was a question about assessing the
17 effectiveness of the masking of the three evaluators
18 and the resulting impact on the effectiveness claims.
19 FDA has a panel question which includes this issue.
20 Thank you very much.

21 CHAIRMAN LoCICERO: It's now time for the
22 panel to discuss the presentation by the sponsor and

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1 the FDA. Anybody have any comments at this point? Dr.
2 Blumenstein, anything?

3 MEMBER BLUMENSTEIN: I'm still thinking
4 about what I want to say.

5 CHAIRMAN LoCICERO: I'm catching people
6 off guard today. Dr. Leitch?

7 MEMBER LIETCH: What does the FDA think
8 about the issue of the blinding of the patients and the
9 significance of that?

10 DR. BONANGELINO: The patients were
11 blinded at the initial point of the study. At about
12 three months, approximately three-fourths correctly
13 guessed the treatment assignment and by six months
14 nearly all of the patients had correctly guessed the
15 treatment assignment, but there was really no patient-
16 based measure of effectiveness.

17 MEMBER LIETCH: So what do you make of
18 that, that data? What's the importance of it?

19 DR. BONANGELINO: Well, it's apparent that
20 the blinding is compounded with the effectiveness. In
21 other words, there was an anticipation that Radiesse
22 would be the longer lasting treatment and, therefore,

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1 the patient in seeing both sides of the face would have
2 guessed that Radiesse was the better treatment.

3 CHAIRMAN LOCICERO: Thank you.

4 MEMBER LI: Excuse me, this is a follow-up
5 question on that. Is that the known reason that they
6 guessed the Radiesse treatment?

7 DR. BONANGELINO: I think the sponsor
8 states something to the effect that there was known
9 greater durability of the Radiesse treatment.

10 MEMBER LI: It wasn't the number of
11 injections or anything that was stirring them.

12 DR. LERNER: I don't remember in reviewing
13 this that that particular point was addressed, that
14 there was a correlation table between number of
15 injections and assessment of which side was which in
16 any of these patients.

17 MEMBER LI: Okay, so you believe that the
18 only way the patients would have guessed as correctly
19 as they did was just the durability?

20 DR. LERNER: It appears that the
21 expectation was that this -- yes, I think if they were
22 -- the patients were made aware to the best of my

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1 recollection that they were studying something that
2 would be longer than something that's already on the
3 market and by seeing one side go away as quickly as it
4 did and the other side not making those clinical
5 changes, they just had to look in the mirror and see
6 what -- and make that correlation between the two
7 sides.

8 CHAIRMAN LOCICERO: Dr. Blumenstein.

9 MEMBER BLUMENSTEIN: This is not my only
10 question. While we have the FDA here, how does the FDA
11 feel about the potential for there to be a difference
12 with respect to the optimal level achieved?

13 DR. LERNER: Well, I think, as was pointed
14 out by the sponsor, a lot of our studies have that end
15 point, that it's up to the investigator who's doing the
16 injection to determine what the quote "optimal" end
17 point is. I mean, I don't know since we started with
18 this device in 2003 and we've progressed over the last
19 several years, we have not come up with that personally
20 I know any other method of defining precisely what the
21 end point would be in these wrinkle filler studies. It
22 has to be a perceived optimal correction. So there's

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1 no scoring system that you could reach. There's no --
2 it's sort of like beauty is in the eye of the beholder
3 and what the investigator perceives to be the point to
4 stop is where that assessment starts from. So --

5 DR. BONANGELINO: Can I just add that in a
6 superiority comparison that is not so much of a
7 statistical concern. I mean, it is an oversight of the
8 sponsors and probably also ours in our reviewing that
9 the optimal correction was not assessed, you know,
10 rated from the photographs but in demonstrating that
11 the product is actually superior, I mean, if it was
12 non-inferiority then it would be a more critical issue,
13 I believe.

14 MEMBER BLUMENSTEIN: Yeah, I mean, this is
15 the feeling that I'm developing is that things are kind
16 of working here because this is so superior --

17 DR. BONANGELINO: That's correct.

18 MEMBER BLUMENSTEIN: But if this were not
19 so superior, we'd be sitting here really stewing about
20 it, I think.

21 DR. BONANGELINO: Exactly, yes.

22 CHAIRMAN LoCICERO: Dr. Newberger?

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1 MEMBER NEWBERGER: What is the feeling of
2 FDA about the fact that at three months the supposed
3 active control has very little or no activity at all?
4 The control, on the basis of FDA studies, was supposed
5 to have certainly benefit at three months and at six
6 months. That's for the control. What do you make of
7 that?

8 DR. LERNER: Well, we've talked about that
9 a lot internally, having seen the data and looked at
10 some of the other studies that we've -- that are in
11 progress or that we have come in front of the panel.
12 And I think there are several points to consider. The
13 first is that at the time that this study was
14 initiated, there were very few comparators to use. So
15 that we -- the sponsor, along with the Agency, chose
16 what they thought would be a reasonable comparator at
17 the time.

18 The second is the method of assessment.
19 We noted in this trial that the assessments are made
20 mostly on photographic evaluations and photographs are
21 not live assessments. One of the things that the
22 sponsor talked about in the types of design that could

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1 be used and was not chosen is something that we've
2 actually started to lean toward and that is evaluator's
3 independent of the injectors, so that we don't have --
4 we have the assessments right after injection or at
5 optimal treatment by a blinded assessor rather than the
6 investigator who's doing it. We're learning over time.

7 This was an early study. When you see the
8 others coming down, hopefully they'll be a little bit
9 different, but we appreciate your concern. We just
10 dealt with what we had.

11 MEMBER NEWBERGER: I appreciate that and I
12 certainly agree and I'm encouraged by the direction
13 that you're going and I think that will eliminate a lot
14 of bias but still, I get back to the three-month data.

15 I don't know if Dr. Olding has this experience but I
16 know that when I use the control as a filler for
17 nasolabial folds, both visually and photographically,
18 I'm going to still have some persistent benefit. Is
19 that your experience, Dr. Olding?

20 MEMBER OLDING: It's -- you know, it's a
21 little unfair to answer that because that becomes in
22 both of our cases just based on our own experience, but

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1 I believe that -- personally that the control is not as
2 good as we effectively expect it to be. So no, that's
3 not quite my experience unfortunately.

4 CHAIRMAN LoCICERO: Mr. Melkerson?

5 DIRECTOR MELKERSON: I just wanted to go
6 back to the point that this -- the idea of using a
7 control, we have to base it on what the study and the
8 data in the PMA, personal experience of our panel.
9 That's why we have you on the panel. There is an
10 expectation, but in terms of how it's used should be
11 based on what's in the PMA itself in making that cut.

12 CHAIRMAN LoCICERO: Dr. Miller.

13 MEMBER MILLER: I just have a question
14 about the concern you raised about the masking. I
15 mean, my understanding of the study was that all the
16 photographs were sent to an offsite location at
17 Canfield or something and they were evaluated by people
18 completely unattached to the study, so what you're
19 looking for is some kind of documentation that the
20 photographs were handled properly and that the people
21 doing the evaluations were not, you know, aware of
22 which patients received -- or which side received the

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1 test and the control?

2 DR. BONANGELINO: I think what we were
3 thinking of is something like asking them to guess
4 which treatment they were evaluating in each
5 photograph, similarly to what was done for the
6 patients.

7 MEMBER MILLER: Okay, so, okay, is that a
8 critical enough of a problem with this study design to
9 challenge the findings?

10 DR. BONANGELINO: Well, it's a remaining
11 question. How critical it is depends on what you
12 believe the likelihood that they would be bias
13 introduced from -- it's kind of hard to think that
14 someone looking at each side of the face individually
15 would have really introduced much bias but we just --
16 we just put it out there as a question to the panel.

17 MEMBER BLUMENSTEIN: I think that from my
18 comment on this, that it's the nature of a statistician
19 to behave differently than our justice system behaves.

20 That we assume that there's cheating and you're guilty
21 until proven otherwise.

22 DR. BONANGELINO: I understand.

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1 CHAIRMAN LoCICERO: Are there any
2 additional discussion points? Then let's proceed to
3 the FDA questions.

4 DR. LERNER: Only two African American
5 patients were enrolled in the Radiesse clinical study.

6 There were 11 Hispanic and two others. The sponsor
7 has not indicated in the device labeling that there are
8 any ethnic considerations for treatment. Do you feel
9 that the sponsor has adequately addressed this issue by
10 providing data on persons of color in the facial
11 lipoatrophy study along with clinical evaluations such
12 as CD4 counts, et cetera.

13 CHAIRMAN LoCICERO: Okay, we've discussed
14 this sort of extensively at this point and maybe we can
15 summarize our feelings directly. Dr. Olding?

16 MEMBER OLDING: No.

17 CHAIRMAN LoCICERO: Is there any
18 additional comment? Does this satisfy the FDA on
19 question 1?

20 DIRECTOR MELKERSON: That's fine with me.

21 DR. LERNER: I told you we'd get through
22 the afternoon quicker. Question 2, Radiesse is

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1 composed of calcium hydroxy apatite which is visible
2 radiographically. The sponsor was asked to provide a
3 better understanding of how this device will look in
4 the skin of the face and to assist the pattern of
5 migration of any particles of radius. Provided for
6 your review are radiographs taken at several time
7 points to assess the possibility of this device
8 mimicking the tumor or hiding a soft tissue tumor as
9 well as device migration. Please comment on the
10 adequacy of the information to assess the risks
11 associated with this device, mimicking a tumor or
12 hiding a soft tissue tumor after injection.

13 CHAIRMAN LOCICERO: This is -- this
14 indication is a little different from the information
15 that we had earlier because of its site and length of
16 injection. Do you -- let's start with Dr. Li.

17 MEMBER LI: I guess my comments would be
18 similar if not the same to the ones I made this
19 morning, that you know, the information provided is
20 good as far as the information goes. I don't know what
21 else to say other than that. There's really -- we
22 still don't have any evidence of how fast it actually

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1 dissipates. We still don't know actually if it
2 migrates, if at all. I mean, these are kind of open-
3 ended questions. I'm not really pointing a finger that
4 there's something wrong with the material in any way,
5 but it's just that there's virtually no evidence that
6 actually would help us answer those questions.

7 And as far as mimicking the tumor, I guess
8 the -- I guess that's also kind of an open-ended
9 question and it depends, you know, it's silly. It
10 seems like it depends to me on how much Radiesse you
11 put in and the size and type of the tumor. So I don't
12 know, given the information, how it covers the entire
13 lay of the land.

14 CHAIRMAN LoCICERO: Does anyone want to
15 add a comment to that? Yes, Ms. Whittington.

16 PATIENT ADVOCATE WHITTINGTON: I would
17 just -- I concur with you about. That is an important
18 piece, I think, when they talk about labeling this
19 device, that that has to be a caution because we don't
20 know that. It certainly is closer -- it appears to me
21 to be closer to the skin even though it's sub-dermal,
22 it appears to be closer to the level of the skin and we

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1 don't know. So I think it has to be a required part of
2 the labeling.

3 CHAIRMAN LoCICERO: Other comments? Yes,
4 Dr. Leitch?

5 MEMBER LIETCH: I think the obscuring of
6 other things is probably less in this application
7 because it's a smaller volume and over a -- you know,
8 sort of a defined, a very defined spot. So I think it
9 will be less of a problem in obscuring other things
10 than the larger injections. On the other hand, as a
11 more focal injection, it might be more likely to mimic
12 a tumor because it's more focal so confusing an
13 examiner, again, I'm not sure as much how much it would
14 confuse a radiologist, but it might confuse an examiner
15 a little more because it's a more focal thing if they
16 can feel it.

17 CHAIRMAN LoCICERO: Dr. Lewis.

18 MEMBER LEWIS: I would agree with Dr.
19 Leitch. It seems to me the significantly smaller
20 volumes as well as the injection along a linear track
21 rather than injection of a mass of material in a more
22 global situation would prevent this from being an issue

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1 very much here. It's -- the situation this morning
2 where you have a larger volume in a globular sort of
3 distribution would be a much more likely confusing
4 situation. I find it hard to see how anyone could be
5 very confused about this when you have a linear
6 configuration with a very small volume and I just don't
7 really see how it could be an issue of significance.

8 CHAIRMAN LoCICERO: Other comments? So to
9 summarize, this would be less of a concern because of
10 volume and geography of injection but that we don't
11 have the final answer. Is this sufficient to satisfy
12 the FDA on this question?

13 DIRECTOR MELKERSON: Yes.

14 CHAIRMAN LoCICERO: Ready for the third
15 question.

16 DR. LERNER: As noted in the panel memo,
17 the mean change from baseline of the Lemperle Rating
18 Severity Score, if a radius was greater than one point
19 at both three and six months, thereby meeting that
20 requirement for superiority, the mean improvement of
21 1.5 and 1.23 points on the LRS. The control had no
22 improvement at three and six months. In essence, the

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1 device was superior to a control that did not show any
2 effectiveness. Please comment on the validity of the
3 sponsor's superiority claim for the device based on the
4 statistical outcome.

5 CHAIRMAN LoCICERO: So the sponsor has
6 given us a problem that we haven't had to deal with in
7 awhile. Dr. Newberger, any comments?

8 MEMBER NEWBERGER: I know better than to
9 argue with a statistician. I'm still having trouble
10 with the particular control, but no, I don't have any
11 other comments.

12 CHAIRMAN LoCICERO: Dr. Blumenstein?

13 MEMBER BLUMENSTEIN: Actually, I meant to
14 ask this before, I'm sorry, but there was a slide shown
15 that said that you could proceed without penalty for
16 superiority testing provided, and I don't remember what
17 it said. I think it said that even if you didn't pass
18 the non-inferiority test, is that correct?

19 DR. BONANGELINO: No, I think it said that
20 with proper planning it was possible to do both
21 comparisons provided that the non-inferiority margin
22 were pre-specified. In other words --

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1 MEMBER BLUMENSTEIN: So you're saying --

2 DR. BONANGELINO: -- it would not be
3 acceptable to a post-hoc, non-inferiority when the
4 margin hadn't been pre-specified.

5 MEMBER BLUMENSTEIN: I don't know, I guess
6 I'm puzzling about this because I would have thought
7 that the requirement would have also included having
8 passed the non-inferiority test.

9 DR. BONANGELINO: That is correct, that is
10 also a requirement.

11 MEMBER BLUMENSTEIN: All right, so you
12 just didn't put that up there.

13 DR. BONANGELINO: Yeah, I didn't mention
14 that.

15 MEMBER BLUMENSTEIN: Okay, all right.

16 CHAIRMAN LoCICERO: So any comment based
17 on that?

18 MEMBER BLUMENSTEIN: No, it's good, it's
19 all good.

20 CHAIRMAN LoCICERO: This is just quite
21 amazing. Okay, so I think to summarize, unless
22 somebody has an additional comment, that we agree that

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1 this product has shown superiority. Does this answer
2 the FDA's question?

3 DIRECTOR MELKERSON: It's adequate, thank
4 you.

5 DR. LERNER: 21 CFR 860.71(d)(1) states
6 that there is a reasonable assurance that the device is
7 safe when it can be determined that the probable
8 benefits to health from use of the device for its
9 intended uses when accompanied by adequate instructions
10 for use and warnings against unsafe use outweigh any
11 possible risks. Considering the data in the PMA,
12 please comment on whether there is a reasonable
13 assurance that the device is safe.

14 CHAIRMAN LoCICERO: Does anyone wish to
15 comment on the safety of this product? Dr. Newberger?

16 MEMBER NEWBERGER: If this device is
17 approved for cosmetic use in nasolabial folds, it will
18 be used in the perioral location for sure and I suggest
19 that checking back to my favorite MAUDE website, many
20 of those adverse events are related to its use in lips
21 and I would just like to comment that the safety is
22 only for this site and not for off-label use. Very

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1 specifically. There are different physical forces in
2 the perioral location.

3 CHAIRMAN LoCICERO: Additional comments?
4 Yes, Dr. Bartoo?

5 INDUSTRY REP. BARTOO: This gets back to
6 question 1 with the African American population. You
7 know, currently the labeling doesn't say anything about
8 precaution in that group, so you know, as part of the
9 consideration for safety to consider, you know, making
10 sure that's in the labeling.

11 CHAIRMAN LoCICERO: Okay, Dr. Li?

12 MEMBER LI: I just want to reiterate
13 perhaps one too many times, that I think in this
14 particular case because the amount of material is so
15 much less than the first application, any issue I had
16 with a concern, you know, is proportionately diminished
17 because just of the amount being used. But I think the
18 same unknowns are still there versus migration,
19 interactions and all those other things that we've
20 talked about earlier. So the concerns are still there
21 but the actual concern is diminished simply because of
22 the amount used.

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1 CHAIRMAN LoCICERO: Dr. Miller.

2 MEMBER MILLER: Yes, I would agree with
3 that. I think all the unknowns still exist for this
4 but for some reason I feel more comfortable with this
5 and I think it's because of the volume and the amount
6 and also I think it's a much more convincing
7 demonstration of the effectiveness of the device as
8 well and I think it's -- I would consider the benefits
9 outweigh the risks from what I see here.

10 CHAIRMAN LoCICERO: Ms. Whittington?

11 PATIENT ADVOCATE WHITTINGTON: I have
12 concern that there is only six months follow-up on
13 these patients. I think that's an awfully short period
14 of time. The results look very nice but I think the --
15 you know, the time period needs to be looked at, you
16 know, followed up a little bit more closely. That can
17 be done on a post-approval review but I think six
18 months is an awfully short period of time. Maybe one
19 of you who do this all the time can reassure me that
20 that's okay.

21 CHAIRMAN LoCICERO: Dr. Olding?

22 MEMBER OLDING: I actually have a question

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1 regarding that. One of the most important things for
2 the company, any company that is now producing
3 something to inject is how long does it last. How long
4 can they say that this lasts and who controls -- they
5 say it lasts 18 months, 6 months, 3 months. Is there
6 any number that the FDA will require them to say or not
7 say based on this in the material? You know, this
8 product lasts from -- you know, we think of some others
9 lasting you know, six to nine months, others lasting
10 three months. We have those ideas in our mind. Where
11 do those come from and are they regulated?

12 CHAIRMAN LoCICERO: Mr. Melkerson?

13 DIRECTOR MELKERSON: First of all, I
14 wanted to clarify for myself, we're trying to answer
15 the question on safety so are we talking about the
16 long-term safety of the product in terms of if a
17 product is labeled, they have to have data to support
18 whatever indication and duration of time they are
19 proposing in their labeling.

20 CHAIRMAN LoCICERO: Dr. Blumenstein.

21 MEMBER BLUMENSTEIN: So that means the
22 label will say this product lasts only six months?

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1 DIRECTOR MELKERSON: Your labeling will be
2 based on what primary end point, when they looked at
3 it, and what the data actually supports.

4 FEMALE PARTICIPANT: So they have to put a
5 time period on the labeling?

6 DIRECTOR MELKERSON: Our summaries, they
7 are going to indicate a duration of use and it will be
8 described as the basis of our decision is in our
9 summaries of safety and effectiveness. So it may not
10 actually be in the labeling but it will say, "Here's
11 the data for this period of time".

12 CHAIRMAN LoCICERO: So make a mental note
13 of that when we talk about approval at a later time.
14 To summarize then, we have similar concerns that were
15 discussed this morning although diminished because of
16 the amount and location of the material but that it
17 appears safe within the limits of the information we
18 have. Is this -- yes, Dr. Li.

19 MEMBER LI: I'm sorry to interrupt but
20 could I ask just a question that just struck me when
21 you were speaking? If for some reason a patient, say
22 just for discussion's sake six months is how long it

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1 lasts and you have to be reinjected if you want to keep
2 the effect. Is there any limit then? Does this
3 treatment just go on forever with this patient as long
4 as they've got the time and money and don't mind being
5 injected? I guess the issue here is, when we talk
6 about effectiveness, I guess I presume you mean the
7 clinical effectiveness. You know, does it continue to
8 do what it's supposed to do.

9 In my material sense, how long it lasts
10 also is how long it's actually there. It's my
11 experience in most of these things that have some sort
12 of resorption that the material is around a lot longer
13 than its clinical effect is. So for instance, at three
14 months, it may have diminished enough to where you have
15 to give another injection but maybe 50 percent of the
16 material is actually still there. So if you keep doing
17 this every three months, the amount of material builds
18 up much more rapidly than can possible dissipate until
19 something is going to happen sooner or later.

20 So I guess my question is, is there any
21 sense of how much a patient can tolerate under these
22 conditions and basically what the dose response to this

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1 is if it's known?

2 CHAIRMAN LoCICERO: I would say, based on
3 what we have so far, we don't know and we can't say,
4 but we can talk about the six-month time frame and
5 right now we're talking about safety. Anything
6 additional to what I summarized?

7 MEMBER LI: Okay, then in that case then,
8 okay, but just if the question is safety to six months,
9 then my original statement stands, but if we're
10 supposed to consider a longer length of time, then I'll
11 go with your answer is that we don't know.

12 CHAIRMAN LoCICERO: Since it hangs around
13 I think we still have to have that comment that we're
14 not -- we don't have data beyond that point.

15 DIRECTOR MELKERSON: You have an adequate
16 response to those questions.

17 CHAIRMAN LoCICERO: Okay, let's go onto
18 the next one.

19 DR. LERNER: 21 CFR 860.7(e)(1) states
20 that there is a reasonable assurance that a device is
21 effective with it can be determined based on valid
22 scientific evidence that in a significant portion of

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1 the target population the use of the device for its
2 intended uses and conditions of use when accompanied by
3 adequate directions for use and warnings against unsafe
4 use, will produce clinically significant results.
5 Considering the data in the PMA, is there a reasonable
6 assurance that the device is effective?

7 CHAIRMAN LoCICERO: Dr. Newberger is going
8 to start.

9 MEMBER NEWBERGER: Yes.

10 CHAIRMAN LoCICERO: Any modifications?

11 MEMBER OLDING: Yes, within the time frame
12 of the study of six months.

13 CHAIRMAN LoCICERO: Dr. Blumenstein?

14 MEMBER BLUMENSTEIN: Well, I think we have
15 to keep in mind that this -- had the margin of
16 superiority been less or non-existent that we'd be in a
17 difficult situation. That what we have here is we have
18 data that are more or less overwhelming. In fact, you
19 could almost answer this question by just looking at
20 the one side of the face treated with the
21 investigational maneuver. That there would be some
22 evidence of efficacy, but there are enough, you know,

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1 flaws in this study with respect to the things that
2 we've already discussed that we have to recognize that
3 this isn't the perfect study. And I think it's
4 important to put that in the record.

5 CHAIRMAN LoCICERO: Okay, to summarize
6 then for the indications sought, this is effective.
7 Does this answer the FDA's question?

8 DIRECTOR MELKERSON: Yes, it did.

9 DR. LERNER: The sponsor has provided 12-
10 month data to support the safety and effectiveness of
11 their device adverse events were few and generally
12 minor. The device itself, calcium hydroxyl apatite, is
13 intended as a long-term implant. Based on the data
14 provided and the length of follow-up in the clinical
15 trial, please discuss whether a post-approval study is
16 indicated to assess further long-term safety or
17 effectiveness issues.

18 CHAIRMAN LoCICERO: Let's begin with Ms.
19 Whittington.

20 PATIENT ADVOCATE WHITTINGTON: You know, I
21 was going to comment. I agree, this is exactly what I
22 think needs to be in a post-follow-up study. And as

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1 far as length of time, I'm not sure what cap to put on
2 it. I would hope that those of you who do these
3 procedures could maybe help define what that length
4 study should be but I think safety and effectiveness
5 should both be looked at, not just one or the other
6 exclusively.

7 CHAIRMAN LoCICERO: Dr. Newberger?

8 MEMBER NEWBERGER: I'm looking at the 12-
9 month data on the radiographic studies but I don't see
10 it on the effectiveness. I don't see the 12 months.

11 CHAIRMAN LoCICERO: Yes, Dr. Lerner, was
12 there 12-month data that was presented to you for
13 clinical?

14 DR. BASTA: The 12-month data -- and I
15 apologize, Dr. Lerner could easily address this. The
16 12-month data is regarding safety. The effectiveness
17 data is only through six months since the control side
18 was allowed to cross over to Radiesse treatment in the
19 second six months of the study. So there was no
20 effective comparison beyond six months.

21 CHAIRMAN LoCICERO: Dr. Bartoo?

22 INDUSTRY REP. BARTOO: On the post-

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1 approval studies, I'd like to ask them to consider the
2 effect or the tolerance of multiple treatments since
3 this will be a repetitive treatment, so perhaps longer
4 in the sense that you could follow like, you know,
5 three to five courses of treatment and see what happens
6 in that case.

7 CHAIRMAN LoCICERO: Additional comments?
8 So in terms of this, the panel feels that there will
9 need to be additional data obtained in the post-market
10 situation, looking specifically at safety, efficacy and
11 the effect of multiple injections. Yes, Dr. Lewis?

12 MEMBER LEWIS: Excuse me, didn't we just
13 hear that would be impossible because there was a
14 cross-over study and the control side has been
15 injected?

16 CHAIRMAN LoCICERO: There are other ways,
17 I guess, to look at efficacy. I'm not sure that
18 they're going to continue the --

19 MEMBER LEWIS: But the statistical
20 comparison of the two sides will no longer be possible,
21 which is the basis on which most of the data was
22 provided, so other than a comparison with baseline, I'm

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1 not sure what the long-term measure would be.

2 CHAIRMAN LoCICERO: I think with that
3 qualification that we -- the recommendation would still
4 stand. Mr. Melkerson?

5 DIRECTOR MELKERSON: I was just going to
6 say that in terms of post-approval studies, I think
7 that -- the feedback from the discussions could be
8 filtered into that.

9 CHAIRMAN LoCICERO: Okay, this concludes
10 the questions of the FDA. We're ready to move on to
11 any open public comment at this point. Are there any
12 individuals here in the audience who wish to make
13 public comment at this time? Since there are no
14 individuals wishing to make public comment, we will
15 dispense with the open public comment requirement
16 section.

17 We are now ready for the FDA to summarize
18 -- does the FDA have any additional comments to make at
19 this time?

20 DIRECTOR MELKERSON: The FDA has none.

21 CHAIRMAN LoCICERO: Does the sponsor have
22 any additional comments to make at this time? Dr.

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1 Krause?

2 DR. KRAUSE: Okay, just for the record,
3 I'll read the voting instructions again. "Medical
4 device amendments as amended allow Food and Drug
5 Administration to obtain a recommendation on designated
6 medical device premarket approval applications.
7 Remember the PMA must stand on its own merits and the
8 recommendation must be supported by safety and
9 effectiveness data in the application or by applicable
10 publicly available information. Remember that safety
11 is defined in the Act as reasonable assurance based on
12 valid scientific evidence that the probable benefits to
13 health under the conditions of intended use outweigh
14 the probable risks. Effectiveness, again, is defined
15 as reasonable assurance that in a significant portion
16 of the target population the use of the device for its
17 intended uses and conditions of use when labeled, will
18 provide clinically significant results."

19 The choices for your recommendation are
20 first of all, approval if you have no conditions. The
21 second choice is approvable with conditions and as I
22 stated earlier, these could be patient or physician

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1 education or training, labeling, further analysis of
2 existing data. Again, prior to voting all of the
3 conditions should be discussed and voted on by the
4 panel.

5 The third choice you have is for not
6 approvable. You may recommend that the PMA is not
7 approvable if the data do not provide a reasonable
8 assurance that the device is safe or a reasonable
9 assurance that the device is effective under the
10 conditions of use prescribed, recommended or suggested
11 in the labeling. Following the voting, the chairman
12 will ask each member to present a brief statement
13 outlining the reasons for their vote.

14 CHAIRMAN LoCICERO: Thank you, Dr. Krause.

15 We're now ready to entertain a motion concerning this
16 product. Dr. Miller.

17 MEMBER MILLER: I recommend approval with
18 conditions.

19 CHAIRMAN LoCICERO: Is there a second?

20 MEMBER LIETCH: Second.

21 CHAIRMAN LoCICERO: Okay, we have a motion
22 for approval with conditions. It has been seconded and

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1 we must now go through the conditions and vote on each
2 of those prior to voting on the approval with
3 conditions. So the Chair will entertain motions for
4 conditions. Dr. Miller?

5 MEMBER MILLER: I think it would be good
6 to have the post-approval study that looks at the
7 effective repeat injections which certainly will happen
8 in these patients and get some idea about the duration
9 of the effect beyond six months. It certainly looks
10 like it's still effective at six months, and see when
11 another injection is required and this sort of thing.
12 I don't think it has to be compared to the control
13 which it clearly is superior to control but I think
14 that a better idea of what the sort of natural history
15 of this material is and its use would be good.

16 So my specific recommendation is that the
17 condition be a continuation of the -- or a post-
18 approval study looking at the effective repeated
19 injections.

20 CHAIRMAN LoCICERO: Is there a second?

21 MEMBER NEWBERGER: I second it.

22 CHAIRMAN LoCICERO: Okay, discussion. Dr.

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1 Blumenstein?

2 MEMBER BLUMENSTEIN: I think we either
3 need to be completely ambiguous about whether we are
4 talking about a new sample of patients or to be
5 explicit and one of the things that weighs on me is the
6 under-representation of African Americans and that
7 issue should also be studied and that would require
8 another sample of patients. And so my inclination is
9 to take what you said and to specify that this has to
10 be a new study that will also focus on African
11 Americans.

12 CHAIRMAN LoCICERO: Another way we can
13 approach this is to have a separate condition looking
14 at African Americans. Dr. Miller, do you want to leave
15 that as a different condition from yours?

16 MEMBER MILLER: I think it would seem to
17 me perhaps these patients could be studied out longer
18 and satisfy the requirement to look at that issue and
19 then a separate study which maybe could be smaller and
20 target African Americans and other ethnicities may by a
21 good idea.

22 CHAIRMAN LoCICERO: Yes, Dr. Newberger.

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1 MEMBER NEWBERGER: I believe that that
2 should be two separate studies and the reason is that
3 if you are finding adverse events developing in the
4 African American population, you're going to stop,
5 you're going to have them drop out of the repeated
6 injection study. So I think they are two separate
7 factors that have to be looked at.

8 CHAIRMAN LoCICERO: Okay, so we're -- I'm
9 getting the sense that we want to make that as a
10 separate condition. So with this particular condition,
11 any additional comments? Ms. Whittington?

12 PATIENT ADVOCATE WHITTINGTON: What's the
13 length? How long are you going to follow them? Is
14 there an end point to what you're asking?

15 MEMBER MILLER: It would be a guess
16 because at six months this looks like it's still having
17 a good effect. So at least a year, maybe two years, I
18 don't know. It would depend on what the projected
19 longevity of the injection would be, I guess.

20 CHAIRMAN LoCICERO: Maybe we could leave
21 the exact time to the FDA and their statisticians and
22 the sponsor to determine if it should be 18 months or

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1 longer.

2 MEMBER BLUMENSTEIN: And in fact, I mean,
3 I would imagine that such a study would have value to
4 the sponsor in terms of marketing. So it probably
5 should be something worked out, in other words, less
6 specificity from us and let them work it out.

7 CHAIRMAN LoCICERO: Additional comments?
8 Okay, then we're going to vote on a post-market study
9 that examines directly the effective repeated
10 injections, the duration beyond six months and the
11 safety of the product. Dr. Olding?

12 MEMBER OLDING: Yes.

13 CHAIRMAN LoCICERO: Dr. Lewis?

14 MEMBER LEWIS: Yes.

15 CHAIRMAN LoCICERO: Dr. Miller?

16 MEMBER MILLER: Yes.

17 CHAIRMAN LoCICERO: Dr. Li?

18 MEMBER LI: Yes.

19 CHAIRMAN LoCICERO: Dr. Leitch?

20 MEMBER LIETCH: Yes.

21 CHAIRMAN LoCICERO: Dr. Newberger?

22 MEMBER NEWBERGER: Yes.

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1 CHAIRMAN LoCICERO: Dr. Blumenstein?

2 MEMBER BLUMENSTEIN: Yes.

3 CHAIRMAN LoCICERO: Okay, we have
4 unanimous approval of the condition that there be a
5 post-market study that looks specifically at safety,
6 the effect of repeat injections and the duration beyond
7 six months. Any additional conditions?

8 MEMBER BLUMENSTEIN: I move that African
9 Americans be studied.

10 CHAIRMAN LoCICERO: Is there --

11 MEMBER NEWBERGER: I second.

12 CHAIRMAN LoCICERO: Okay, we have a motion
13 and a second. Dr. Melkerson (sic)?

14 DIRECTOR MELKERSON: Just a quick
15 question. Are you limiting it just to one ethnic group
16 or other ethnic groups?

17 MEMBER BLUMENSTEIN: Good point. Maybe --
18 I hope I'm not going to be politically --

19 CHAIRMAN LoCICERO: I have a very good
20 friend who is Egyptian. I would consider him African
21 American. I also have a very good friend who is South
22 African from the Netherlands, and I guess you would

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1 consider him South -- to be an African American. So
2 maybe we should be a little more clear.

3 MEMBER BLUMENSTEIN: Yeah, a point well-
4 taken. I don't know what the politically correct way
5 to state other than Whities or something like that.
6 But the point -- I think the point is there.

7 CHAIRMAN LoCICERO: Dr. Newberger.

8 MEMBER NEWBERGER: I think that we want to
9 look at the safety in people of color who are likely to
10 develop hypertrophic scarring and/or keloid formation
11 and that would certainly include many ethnicities, not
12 limited to African Americans, other people of color.

13 CHAIRMAN LoCICERO: Dr. Bartoo?

14 INDUSTRY REP. BARTOO: I don't know if
15 this should be a separate condition or part of this
16 one, but until that study has been completed, to add in
17 there precautions that the safety and effectiveness in
18 these populations is unstudied.

19 CHAIRMAN LoCICERO: Okay, we can make that
20 as a separate condition. That will be easy for us to
21 do after we vote on this one. Is there further
22 discussion on this proposal? Okay, let's vote. We'll

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1 start with Dr. Blumenstein.

2 MEMBER BLUMENSTEIN: Yes.

3 CHAIRMAN LoCICERO: Dr. Newberger?

4 MEMBER NEWBERGER: Yes.

5 CHAIRMAN LoCICERO: Dr. Leitch?

6 MEMBER LIETCH: Yes.

7 CHAIRMAN LoCICERO: Dr. Li.

8 MEMBER LI: Yes.

9 CHAIRMAN LoCICERO: Dr. Miller.

10 MEMBER MILLER: Yes.

11 CHAIRMAN LoCICERO: Dr. Lewis.

12 MEMBER LEWIS: Yes.

13 CHAIRMAN LoCICERO: Dr. Olding.

14 MEMBER OLDING: Yes.

15 CHAIRMAN LoCICERO: And we have unanimous
16 agreement that there should be a study conducted of
17 persons of color and those who have a tendency toward
18 keloid and hypertrophic scar formation.

19 DR. KRAUSE: Did we get a second?

20 CHAIRMAN LoCICERO: We did, yes.

21 DR. KRAUSE: Okay.

22 CHAIRMAN LoCICERO: Okay, we're ready to

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1 entertain another condition or we can just say Dr.
2 Bartoo here, it is a condition but a statement that
3 until such studies are conducted, that it is not
4 indicated.

5 INDUSTRY REP. BARTOO: Well, it is just
6 added to the precautions in the labeling that it has
7 not -- the safety and effectiveness hasn't been
8 established.

9 CHAIRMAN LoCICERO: Okay, so it would be a
10 statement added to the precautions. Any discussion
11 about that? I would assume this is unanimous. Do we
12 have any objectors? Okay, it passes unanimously. Are
13 there additional conditions that the panel wishes to
14 bring forth? Dr. Newberger?

15 MEMBER NEWBERGER: I'd like to get
16 labeling not in microfiche that this is specifically
17 for injection in nasolabial folds and not studied in
18 the perioral or lips locations.

19 CHAIRMAN LoCICERO: Second?

20 MEMBER LIETCH: Yes.

21 CHAIRMAN LoCICERO: Seconded by Dr.
22 Leitch. Question; do you want to add any comment about

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1 its safety in those locations or is that comment
2 sufficient?

3 MEMBER LIETCH: I don't know that it's
4 necessary to put into the labeling that adverse
5 reactions have been found with its use in the perioral
6 location and it is not -- the safety is not studied at
7 this time.

8 MEMBER OLDING: I just have a question.
9 If we approve -- if -- well, we already have approved
10 the other study with conditions and that is
11 theoretically a perioral area, the cheek area is, it's
12 around the mouth, I mean, if you mean lips, I think,
13 then we should say lips because perioral is something
14 in my mind different.

15 MEMBER NEWBERGER: Okay, let's say lips.

16 CHAIRMAN LoCICERO: Okay, so we're going
17 to change it to lips. Okay, so the statement will be
18 that the -- this product has not been studied for
19 injection around the lips -- into the lips.

20 MEMBER NEWBERGER: And adverse events have
21 been reported in that location; thus, its use is not
22 recommended.

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1 CHAIRMAN LoCICERO: Okay. Dr. Bartoo?

2 INDUSTRY REP. BARTOO: In the labeling
3 that's been submitted there is a warning that the
4 safety and efficacy of Radiesse for use of the lips has
5 not been established. Does that satisfy your concern?
6 It's already in the labeling that's been submitted.

7 MEMBER NEWBERGER: Okay, if it's in big
8 print.

9 INDUSTRY REP. BARTOO: Well, it's right up
10 front under warnings.

11 CHAIRMAN LoCICERO: Okay, all right, so
12 it's already stated and so would you like to withdraw
13 your motion?

14 MEMBER NEWBERGER: Yes.

15 CHAIRMAN LoCICERO: Okay. Are there
16 additional motions? Dr. Newberger?

17 MEMBER NEWBERGER: Perhaps training in
18 some format would be a good recommendation for
19 labeling.

20 CHAIRMAN LoCICERO: Is there a second?

21 MEMBER OLDING: Second.

22 CHAIRMAN LoCICERO: Dr. Olding seconds.

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1 Any comments? Dr. Miller?

2 MEMBER MILLER: I wonder if the training
3 needs to be just to be able to demonstrate having been
4 trained in using injectable fillers. My sense is that
5 there's enough similarity in the use of this for this
6 application that special training may not be required
7 other than just having been trained in using injectable
8 fillers.

9 CHAIRMAN LoCICERO: Dr. Olding?

10 MEMBER OLDING: I actually don't agree
11 with that.

12 MEMBER MILLER: Okay.

13 MEMBER OLDING: Because I think this is a
14 different filler than, you know, Zyderm, Zyplast,
15 Restylane, all of them. It is different. I think you
16 have to be a bit more careful about where you inject it
17 and how you inject it. So I think it would be very
18 appropriate and not too much of a burden to have to do
19 some sort of a CD-ROM format or some sort of thing you
20 would sign off on.

21 CHAIRMAN LoCICERO: We had a very similar
22 stipulation on the first PMA. Would everyone be

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1 comfortable if we use that same language? Okay, are
2 there any objectors? Okay, that carries unanimously.
3 Are there additional conditions? Hearing none, I think
4 we're ready to vote on the approval with conditions.
5 Is there any further discussion at this point? Dr.
6 Newberger.

7 MEMBER NEWBERGER: Actually, I think my
8 comment would be better after the vote.

9 CHAIRMAN LoCICERO: All right, I think
10 we're ready to take a vote. We'll begin with Dr.
11 Leitch.

12 MEMBER LIETCH: Yes.

13 CHAIRMAN LoCICERO: Dr. Li?

14 MEMBER LI: No.

15 CHAIRMAN LoCICERO: Dr. Miller?

16 MEMBER MILLER: Yes.

17 CHAIRMAN LoCICERO: Dr. Lewis?

18 MEMBER LEWIS: Yes.

19 CHAIRMAN LoCICERO: Dr. Olding?

20 MEMBER OLDING: Yes.

21 CHAIRMAN LoCICERO: Dr. Blumenstein?

22 MEMBER BLUMENSTEIN: Yes.

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1 CHAIRMAN LoCICERO: Dr. Newberger?

2 MEMBER NEWBERGER: No.

3 CHAIRMAN LoCICERO: For the record, that's
4 five to two. So Mr. Melkerson, the recommendation of
5 the panel is the pre-market approval application of
6 Radiesse for the treatment of nasolabial folds from
7 BioForm Medical Incorporated be recommended for
8 approval with conditions as we have outlined.

9 DIRECTOR MELKERSON: I'd like to thank the
10 panel for their deliberations and their time.

11 CHAIRMAN LoCICERO: Thank you. Now, we
12 need to go through and ask each member of the panel
13 their reason for voting. Dr. Leitch.

14 MEMBER LIETCH: I think the product has
15 been shown to be effective in the time interval in
16 which it's being studied and in the population of
17 Caucasian patients and if the requirements that we've
18 put on the sponsor are met, then I think it is safe and
19 effective and it's reasonable to do. I think some of
20 the concerns about the radiology obscuration is less of
21 an issue because of the smaller volume of injection.

22 CHAIRMAN LoCICERO: Dr. Li.

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1 MEMBER LI: I understand there's a fine
2 line between being principled and stubborn and pig-
3 headed, so as I toy with that line here, basically, I
4 can't quite make myself vote for approval for a
5 material that I really don't know the resorption rate,
6 I don't know if it migrates, I don't know how much of
7 it I can put in. We have questions over whether or not
8 there's a race issue. We don't know what the maximum
9 dosage is. We don't know how many injections we can
10 put over a certain period of time. Now, in this
11 particular case, it's a much tougher thing to consider
12 because you're using a relatively small amount of
13 material, yet, that seems to me to be as the materials
14 and developer of these things an awkward line to say
15 that if you don't use a lot of it, then you don't have
16 to know any of these things.

17 So that, and I do believe that once
18 approval is granted, then the barn door is open and all
19 these things we're worried about, we have little or no
20 control over assessing and I'm actually hoping that
21 none of those things come true in our adverse effects,
22 but I just don't feel we know.

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1 CHAIRMAN LoCICERO: Dr. Miller.

2 MEMBER MILLER: Yes, I felt comfortable
3 with this. I thought the -- it was much more
4 forthcoming PMA because it dealt with a cosmetic
5 application which I think is foremost in most people's
6 minds and it was a very -- I thought given the
7 limitations of this study, I thought it was a very
8 convincing study, a nicely done study to show that this
9 material is very effective and the level of risk
10 involved. There's a lot of unknowns with it but I
11 think that the material has a long history of use in a
12 variety of indications and I think that, you know, the
13 benefits of it outweigh the risks.

14 CHAIRMAN LoCICERO: Dr. Lewis?

15 MEMBER LEWIS: My opinions were
16 essentially the same as Dr. Miller's.

17 CHAIRMAN LoCICERO: Dr. Olding.

18 MEMBER OLDING: And mine the same. I
19 guess, if we get a chance to harp now is my time. I
20 really think that it's important for the FDA when
21 they're working with groups who bring fillers to market
22 to be certain of that end point and understanding that

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1 end point when they're presented. In addition to the
2 limitations of this study based on the available
3 material to compare it to, but by and large I think
4 it's -- particularly in the smaller amounts this is one
5 case where less is better.

6 CHAIRMAN LoCICERO: Dr. Blumenstein?

7 MEMBER BLUMENSTEIN: My yes vote has a big
8 asterisk. I don't really consider this to be a true
9 randomized study because of the inherent difficulties
10 in bringing a patient to so-called optimal status. The
11 randomization took place before that was actually done,
12 so you're not really starting off with something that
13 you can be assured is comparable. I'm not sure -- and
14 also the fact that there was a truncation of three
15 treatments which could further lead to a difference in
16 comparability.

17 I'm also concerned that the photographs
18 taken at the optimal -- at the assessment of the
19 optimal status were not scored and were not compared.
20 My inclination is to believe that just a -- that a two-
21 group study would have had fewer of these problems
22 though I'm not convinced that that's the complete

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1 answer either. I recognize that this is a very
2 difficult area to study as many things in the CDRH
3 realm are. And so -- but I think the overwhelming
4 evidence of some kind of efficacy sort of takes me out
5 of a condition of doubt.

6 CHAIRMAN LoCICERO: Dr. Newberger.

7 MEMBER NEWBERGER: This was a better study
8 than the lipoatrophy study. Too many unknowns remain
9 for me to feel comfortable in voting for approval.
10 Again, we don't have enough information about the
11 science of this product. We have histology in
12 Restylane and other hyaluronic acid fillers which last
13 much -- which probably last for shorter periods of
14 time. This is going to hang around a lot longer. I'm
15 not comfortable with my understanding of what it does.

16 It's already out there in the marketplace and I felt
17 that more rigorous studies were really needed for me to
18 feel any level of comfort with its overall safety.

19 CHAIRMAN LoCICERO: Thank you. I want to
20 thank the panel personally for their time and of
21 course, we have another session tomorrow morning. I'd
22 also like to thank the FDA for all of the effort that

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1 they've put into this and helping us have a venue that
2 has been relatively comfortable. And I'd like to thank
3 the sponsor for their ability to respond when our
4 questions and demands were pretty significant. So this
5 concludes today's deliberations -- Dr. Krause wishes to
6 make an announcement at this point.

7 DR. KRAUSE: Just a little clarification
8 on tomorrow. Tomorrow morning at 8:00 o'clock the
9 panel members will meet in the Potomac Room. Margie
10 Schulman will give us a brief presentation on
11 classification, reclassification, just to make that
12 clear. At 9:00 o'clock we'll meet here. There will be
13 a brief closed session. Now, nothing clandestine is
14 going to go on at that brief closed session.
15 Basically, that closed session is for the FDA to let
16 the panel members know the types of products that are
17 in development and that may soon come before the panel.

18 We're not going to, you know, divulge any
19 deep dark secrets of, you know, the stuff we're hiding
20 from the public. It's just we're required every so
21 often to do that and that's exactly what we're going to
22 do. So the actual panel meeting for the

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1 reclassification of the cyanoacrylate tissue adhesives
2 for skin approximation will take place starting at
3 about 9:30. Okay, thank you.

4 (Whereupon, at 5:32 p.m. the above-
5 entitled matter concluded.)
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