

1 reality is, they are getting to be impractical, if not
2 impossible, simply because of IRBs, unless there's a
3 clear statement and a consensus, which there does not
4 appear to be around this table.

5 It's a simple fact. You're going to have
6 to do positive comparator trials in the more severe
7 cases, I think.

8 And the other point I would emphasize is
9 the add-on model is probably only not very complicated
10 to interpret, but as I understand it, the data that
11 are emerging are, that in fact adding on anabolics
12 with non-resorptives, are not at all additive. I
13 think that was mentioned earlier by somebody.

14 DR. BONE: There are some preliminary data
15 about that. That isn't final by any means.

16 CHAIRMAN BRAUNSTEIN: Dr. Levitsky?

17 DR. CUMMINGS: Could I?

18 CHAIRMAN BRAUNSTEIN: Did you want to
19 comment?

20 DR. CUMMINGS: I need to tell Bob or
21 respond to Bob in one sense. The gradient of risk at
22 which something becomes acceptable to test is a really

1 slippery slope, and it's hard to define. But it's not
2 so much -- the principle that seems to get lost is
3 that it's not so much when a trial is ethical but when
4 a decision about that trial being worthwhile or
5 ethical switches from the patient who makes that
6 decision to us.

7 And so, I think that there's a certain
8 small level of risk where it's acceptable from my
9 point of view that I could recommend therapy to the
10 patient, but it's okay if she refuses on the basis of
11 information about her absolute risk and joins a trial.

12 And I think it's not so much that we, as
13 a community, wouldn't recommend treatment to someone
14 whose bone density is below a -2.5. I would recommend
15 it, but I would accept her refusal, an informed
16 refusal to say to me "that's fine, but I'd rather be
17 in a trial" because I don't think the risk is
18 sufficient for me to overcome her right to make an
19 informed decision. And that's different --

20 DR. TEMPLE: Then the consent form would
21 tell her right now we've got serious people in this
22 condition.

1 DR. CUMMINGS: Yes. But see --

2 DR. TEMPLE: It should be urged that
3 treatment should be used in people like you.

4 DR. CUMMINGS: Absolutely, Bob. But right
5 now the consent forms, unfortunately they create
6 problems for the IRBs that the FDA could help with.

7 Now, I'll say that drugs reduce the risk
8 of fracture by 50 percent, and your risk of dying from
9 fractures is 10 to 20 percent, and they do not put
10 things in terms of the absolute risk and benefit for
11 an individual patient who's looking at the trial.
12 Those absolute risks of transient disability are
13 modest to small for the patients we've been talking
14 about. And for permanent irreversible disabilities --
15 I haven't calculated those, but those are really tiny
16 for the class of patients that we're talking about.

17 And informed consent needs to be much
18 clearer about absolute risks rather than the relative
19 risks that we have used to promote the importance of
20 the disease.

21 DR. TEMPLE: That's obviously clear, but
22 it also needs to be clear on what the standard

1 recommendation is, that there are therapies that will
2 ultimately work in this, and other things that I
3 imagine would have an effect on --

4 DR. CUMMINGS: Yes, they need to see their
5 physician and hear that too. But I think the FDA
6 could help out with the problem of IRBs who really
7 only understand the relative risks -- and I think if
8 the FDA said that this is an acceptable class of
9 patients in which to design trials, I mean that would
10 help clarify things a lot for people who are confused
11 about absolute and relative risk.

12 DR. TEMPLE: You probably don't want us to
13 make the uniform determination on it. You probably
14 want to leave it local. I'm just guessing, but --

15 CHAIRMAN BRAUNSTEIN: Dr. Levitsky?

16 DR. LEVITSKY: I will ask a question,
17 rather than stating an opinion, for those of you who
18 know more about the pharmacology of these compounds.
19 In these very low-risk people who would be entered
20 into a placebo trial, is there a way to do a time-to-
21 fracture study so that you decrease the exposure of
22 these patients, rather than --?

1 DR. MARCUS: The answer is "yes". There
2 are many designs one could use. You could say that
3 statistically you'd need to get a total of 75
4 fracture, let's say, in order to have the power to
5 distinguish one group from the other, and then you'd
6 just continue your trial until that 75th fracture is
7 achieved. And then "wham", you'd cut it off. There
8 are other models too, but you're quite right. You
9 don't have to stick to a three-year model.

10 DR. LEVITSKY: That would diminish the
11 risk for any individual person --

12 DR. MARCUS: Of course.

13 DR. LEVITSKY: -- if that was your
14 approach.

15 CHAIRMAN BRAUNSTEIN: Dr. Temple?

16 DR. TEMPLE: I'm sorry I didn't think of
17 this before. We have urged in settings where
18 controlled trials are difficult -- such as seizure
19 studies and recurrence of atrial fibrillation -- just
20 what you suggested, because in a certain sense
21 everybody gets one event, and not more than one event.
22 That's a little -- it's truer if it's something like

1 seizures where everybody is going to have one in the
2 first month.

3 But, it does reduce the burden on the
4 people who aren't treated. They at least don't get
5 multiple fractures or stay on it a very long time and
6 accumulate the risk. So that does seem worth thinking
7 about, time to first event.

8 CHAIRMAN BRAUNSTEIN: Okay. Dr. Sampson?

9 DR. SAMPSON: I'm not prepared to address
10 in terms of patient populations that would be suitable
11 for placebo, but I was thinking back again to Dr.
12 Cummings' excellent presentation this morning in terms
13 of fracture incidents and non-inferiority.

14 And he and his colleagues used a certain -
15 - left a sample size impression, a very large sample
16 size. And they used a delta, to me about 25 to 33
17 percent of the difference between placebo and active.
18 And they also assumed that the test compound was equal
19 in efficacy to the active -- and I'm just talking
20 about efficacy. And those are rather stringent
21 assumptions, I think, in some ways.

22 Dr. Temple alluded to the fact that larger

1 deltas might be acceptable -- in the range of 50
2 percent, maybe even larger. And if you were to use
3 one of the less efficacious comparators and assume
4 that you were more efficacious in that comparator in
5 powering the study, that would in effect further
6 reduce the sample size.

7 So at least when people have the choice of
8 using an active comparator, I think there might be
9 less severe sample size considerations than maybe the
10 presentation left this morning.

11 CHAIRMAN BRAUNSTEIN: Dr. Lukert?

12 DR. LUKERT: I think I already stated what
13 my parameters would be for placebo-controlled trials,
14 a person without a recent fracture. And with the
15 safety net, which sort of addresses what you say, they
16 wouldn't be allowed to have more than one fracture.
17 Even if their bone density starting falling more than
18 your predetermined amount, they would be removed from
19 the study.

20 As far as the active controls, I think the
21 only place I would consider it practical would be
22 combinations. I think eventually those are going to

1 have to be studied, the combinations of anabolic and
2 antiresorptive agents.

3 CHAIRMAN BRAUNSTEIN: Dr. Aoki?

4 DR. AOKI: I basically concur with Dr.
5 Watts and Dr. Bone's opinions regarding the placebo
6 and the comparator studies.

7 CHAIRMAN BRAUNSTEIN: Yes, so do I. That
8 low-risk groups -- all groups should get vitamin D and
9 calcium and exercise. In low-risk groups, I see no
10 major ethical problems with carrying out a placebo
11 trial to either a fracture endpoint or BMD, depending
12 on the class of drugs.

13 As far as the individuals who are at high-
14 risk with multiple fractures or recent fractures, I
15 think an active control study is reasonable and that
16 a placebo-controlled study in that setting is not.

17 Dr. Gelato?

18 DR. GELATO: I agree with pretty much
19 everything that's been said, except that I think in
20 the high-risk group they should not be given a therapy
21 until it has been proven to be efficacious. I agree
22 with Dr. Bone, Watson, and McClung. I think that

1 until you know it works, they're not a group that you
2 should really take a chance on, because the risk is
3 too great for them. There's not a good risk-benefit
4 ratio there.

5 CHAIRMAN BRAUNSTEIN: Dr. Grady?

6 DR. GRADY: I find this a very difficult
7 issue. I mean, I think you can pick out specific
8 language from the Declaration of Helsinki, but the
9 sort of intent of it is generally to say that the risk
10 to participants in a trial should definitely not
11 outweigh the potential benefit of what we're going to
12 learn scientifically, or the public health benefit.

13 And I think in this case that that's how
14 we justify it. I think that there is some risk for
15 people in the placebo group, but that it's small. And
16 hopefully we stand to learn something that outweighs
17 that small risk.

18 That said, I still think we should think
19 harder about non-inferiority trials. I mean, I think
20 what continuing to do placebo trials leads to -- or is
21 going to lead to -- is eight or ten bisphosphonates on
22 the market, with clinicians not really having a good

1 idea of which one is better than any of the others.
2 That really doesn't do a service to science or society
3 either.

4 And I think the main reason we don't do
5 equivalence trials is because they have such practical
6 problems, and it is also problematic to interpret
7 them. So if you don't really learn anything from them
8 then you haven't met the requirements of the
9 Declaration either.

10 CHAIRMAN BRAUNSTEIN: Dr. Abadie?

11 DR. ABADIE: I think placebo may be
12 ethical in patients who are usually not treated, where
13 the drugs are not seen as widely available
14 medications. And that's the case in Europe, at least
15 in certain countries, as in my country, in patients
16 with low risk, that is, without any pre-evident
17 fractures at the beginning.

18 And I would probably strongly echo the
19 time-to-event statistical analyses. In fact, we have
20 already thought about that for the multiple sclerosis,
21 where in fact we have exactly the same problem of
22 active control trials. Before, we'd think that the

1 placebo in these particular populations may be also
2 acceptable with the time-to-event approach.

3 With respect to the active control trial,
4 certainly not pivotal unless it's a superiority trial
5 -- because we would like to see superiority on
6 fracture either versus active control but it will be
7 probably difficult -- or versus placebo.

8 For the rest, I would say, such as a new
9 dose, new formulation, I would probably go along with
10 the active control trial in a non-inferiority setting
11 with BMD as a first endpoint, but only -- only I would
12 say -- in case of new dose, new formulation, new
13 pharmaceutical formulation.

14 CHAIRMAN BRAUNSTEIN: Dr. Silverstein?

15 DR. SILVERSTEIN: I agree with everything
16 you said. As a clinician, one of the difficult things
17 -- as Dr. Grady said -- is, why should I choose one
18 drug over the other? And in the absence of active
19 control trials, we really don't know. And so, I think
20 that there is a role for them, in this particular
21 instance and in many others as well.

22 CHAIRMAN BRAUNSTEIN: Dr. Rodan?

1 DR. RODAN: I agree with the Chair
2 regarding low-risk patients. The proviso that
3 patients who fracture -- for example, it was shown in
4 clinical trial that Alendronate reduced by 100 percent
5 the occurrence of more than two vertebral fractures.
6 So there is a way to prevent really significant
7 deleterious outcomes in patients involved in the
8 trials, based on existing therapy.

9 CHAIRMAN BRAUNSTEIN: Okay. Dr. Rizzoli?

10 DR. RIZZOLI: Yes. Calcium and vitamin D
11 we all agree -- it's more than a placebo,
12 particularly if it's a full dose given, which is not
13 always the case in several trials, in which was given
14 just the minimal dose.

15 Second, the risk should be defined on the
16 absolute risk base, not only on BMD but other risk
17 factors in the presence of multiple fractures. And
18 finally, I'm not sure that the high-risk patient
19 should not enter a placebo, calcium, vitamin D
20 controlled trial if, for instance, he or she is in a
21 class of age in which there is no well-established
22 treatment, or if we ever design a little bit less

1 stringent, like a time-to-fracture or shortened study,
2 with the possibility after one year to be switched to
3 the active drug.

4 CHAIRMAN BRAUNSTEIN: Dr. Hochberg?

5 DR. HOCHBERG: I guess I agree with a lot
6 of what's been said before, both by the Chair and by
7 my colleagues to the right and by my colleagues across
8 the wide gap between the table.

9 I comment on a little bit of this question
10 about add-on studies.

11 One of such designs is the issue of taking
12 so-called partial responders, or non-responders, to
13 therapy and then randomizing them to either continue
14 on their therapy if they're a partial responder, or
15 add on a therapy. We know that patients who get
16 active drug in this situation have fractures. They
17 just have fractures at a lower rate than the group
18 that receives the placebo -- everybody getting calcium
19 and vitamin D.

20 So, one question would be: Could you
21 design an add-on trial where you would continue
22 patients on active drug and then add on something, as

1 compared to adding on placebo in that situation? That
2 obviously might be a possibility for this so-called
3 high-risk population.

4 I think the other comments people have
5 made are all very reasonable. I don't want to
6 trivialize things. I think often times we consider
7 when we enroll patients in trials whether the so-
8 called "mother test" -- this is relevant to
9 osteoporosis -- as to whether you would enroll your
10 mother in the trial. I think, given the low-risk in
11 the overall group for serious outcomes and looking at
12 absolute risk as suggested by Dr. McClung at the
13 beginning of this discussion -- is a reasonable way of
14 making those decisions.

15 CHAIRMAN BRAUNSTEIN: Dr. Cummings?

16 DR. CUMMINGS: Nelson Watts said it
17 beautifully. I couldn't add anything to what he said.
18 So Nelson, if you wouldn't mind restating it. That
19 would be my comment.

20 (Laughter.) DR. CUMMINGS: I also agree
21 with everything that Bob Marcus is about to say.

22 (Laughter.) DR. CUMMINGS: And Bob, the

1 most serious comment is actually about the
2 international scope of the trials. I think that Bob's
3 -- I actually support not only the ethicalness but I
4 think the desirability of doing trials in places where
5 people are not getting adequate access to -- it's a
6 small -- we should talk more about that. In large
7 part, because the trials that you have approved, or
8 you've let go -- not right now -- for registration at
9 the FDA, are almost all being recruited outside of the
10 United States.

11 And so we may believe that we shouldn't
12 include patients who have multiple fractures or severe
13 or recent fractures in trials like this, and may
14 decide that for the United States. But in fact, 90 to
15 95 of the patients that are being recruited right now
16 to fracture prevention trials are being recruited
17 outside the U.S., many of them outside of Europe,
18 mostly in places where there isn't any alternative for
19 treatment of osteoporosis.

20 I don't know how you consider that when
21 you are considering the design of these trials. But
22 regardless of what we're saying about what's

1 applicable in the United States, the numbers of
2 fractures -- most of the fractures in these trials are
3 going to come from areas where there isn't adequate
4 medical care, and they're being assigned to a placebo
5 or the active drug.

6 DR. TEMPLE: I basically think that's
7 okay.

8 DR. CUMMINGS: So do I, but --

9 DR. TEMPLE: But CEOMs, the National
10 Bioethics Advisory Committee, and damn near everybody
11 else does not.

12 Just so you know, there's a great
13 international debate about such things. My own view
14 is that if it's not available, you're doing good for
15 all the people in the trial, because at least some of
16 them are getting the good stuff. But I can tell you,
17 that's highly controversial.

18 DR. CUMMINGS: I'm just wondering -- it
19 needs to be thought through clearly. Whatever -- if
20 there's a revision of the Guidelines here and you put
21 in some suggestions about or limits as to who should
22 be in the trials, how does that influence or affect

1 the design of trials that are then done in a unified
2 protocol around the world?

3 DR. TEMPLE: Other countries determine who
4 can be in trials. We don't tell them what to do.

5 DR. CUMMINGS: You don't tell them, but
6 there is one unified protocol that is usually based on
7 discussions with the FDA, not with -- It's a counter-
8 party issue.

9 DR. TEMPLE: As a general matter subject
10 to debate, if another country decides that something
11 is ethical, they're a country. It means you get to
12 decide if you're a country. It's one of things
13 countries can do.

14 There's controversy about that, too. But,
15 I think that has generally been our position, unless
16 there is something really just obviously awful.

17 CHAIRMAN BRAUNSTEIN: We'll let Dr. Watts
18 make a brief comment, and then we'll go on to Dr.
19 Marcus.

20 DR. WATTS: Very brief. I think the
21 ethical objection to doing a trial in a country where
22 these drugs are not available is that the population

1 of that country does not stand to benefit from the
2 results of that trial. And therefore, it's not
3 ethical to take the trial there.

4 CHAIRMAN BRAUNSTEIN: Dr. Marcus?

5 DR. MARCUS: I have often looked up to the
6 opinions stated by my three gray eminent friends over
7 there ever since I was young and in training.

8 (Laughter.) DR. MARCUS: And I'm prepared
9 to be persuaded to some degree by them today -- as
10 well as by Dr. Lukert, who isn't so gray -- that there
11 may be a problem with people who have multiple
12 fractures and recent fractures.

13 The interesting thing is -- and this is a
14 new twist that I haven't heard before or seen before
15 in print -- the concept of new fracture. The Helsinki
16 Declaration, the European -- I've forgotten what the
17 acronym is, but the European position paper on
18 placebo-controlled trials and osteoporosis -- just
19 talk about prevalent fractures and they, to my
20 knowledge, they don't address the recency.

21 But I'm persuaded by you, Nelson, and
22 Henry, and Michael, and Barbara, that the recency may

1 actually provoke an additional risk which is not
2 justifiably undertaken.

3 That being said, I want to make a strong
4 plea for placebo-controlled trials. And if we have an
5 education problem among our colleagues and IRBs and in
6 universities, well so be it. We need to educate them.

7 I think it is unconscionable to subject a
8 person to the risks of a trial where you are not going
9 to get the accurate estimate of efficacy or safety.
10 End of story.

11 I think the Amoxicillin story with *Otitis*
12 *Media*, where people got into recognizing the efficacy
13 of that drug for so much for so long that that became
14 the standard comparator. Everything fell apart when
15 a new placebo-controlled trial showed that efficacy
16 wasn't there. That's how it was presented to me in
17 the *New York Times*.

18 Bob Temple may want to correct that, but
19 the concept is still, I think, an important one when
20 you don't really know the efficacy or the safety of a
21 drug in absolute terms. You're exposing people to an
22 unmerited risk, and so I think there is still a strong

1 role for placebo-controlled trials.

2 CHAIRMAN BRAUNSTEIN: Yes, Dr. Bone?

3 DR. BONE: I'd like to add one comment
4 which -- I think it's obvious, but it probably needs
5 to be stated for the record.

6 And that is, I think everyone would accept
7 enrolling a patient who was at comparatively high-
8 risk, if that patient either had contraindications or
9 categorical refusal to take any of the drugs that had
10 established any fracture efficacy -- I just wanted to
11 have that in the transcript.

12 CHAIRMAN BRAUNSTEIN: Great. Okay --

13 DR. LEVITSKY: Can I?

14 CHAIRMAN BRAUNSTEIN: Yes, Dr. Levitsky.

15 DR. LEVITSKY: I asked you a question
16 before, and the reason I asked it is because I've been
17 sitting here applying the "mother test" while you all
18 talked.

19 If a placebo-controlled trial can be
20 conducted in women where the outcome will be measured
21 only radiologically, and that is by small micro
22 fractures at the vertebrae that will not involve any

1 disability. That is probably a time-to-fracture
2 trial. I think it is acceptable.

3 If people who enter this trial have three
4 days of disability because of their fracture -- when
5 there is a drug out there which is perfectly
6 appropriate this disorder and which they should be
7 receiving treatment with -- I think any argument about
8 availability in the community, any argument about what
9 is available in the country, is not an ethical
10 argument.

11 CHAIRMAN BRAUNSTEIN: Yes, Dr. Watts?

12 DR. WATTS: I want to clarify that. I
13 think what Dr. Cummings said about disability was that
14 the average disability for the patient who fractured
15 was measured in days.

16 And so, if we're looking at a relatively
17 lower risk population and the fracture rate is two
18 percent in the treated group and one percent in the
19 placebo group, then the difference is one percent of
20 people in that trial might have a day or two of
21 disability, not that everyone in the trial would have
22 days of disability.

1 DR. CUMMINGS: Can I clarify that? There
2 are some people who have the average fracture that
3 occurs, carries with it in our data so far of
4 approximately 100 days of disability. This is three
5 months.

6 The reason it's an average -- and this
7 goes back to what David pointed out -- is that when
8 you average things like this, you're really not taking
9 account of the fact that for an occasional patient
10 there is a more prolonged -- and the average is about
11 three months of disability. It's because that happens
12 infrequently -- to one to two percent of the people
13 per year -- that you end up with that average of
14 three. It's not spread out over everybody.

15 And it's really interesting that, in most
16 of medicine, we have bent over backwards to allow our
17 patients to make informed decisions about treatments -
18 - even if we believe they are beneficial to them.
19 It's in the world of clinical trials where that trend
20 seems to be going just in the opposite way, where we
21 are taking on the decision-making about what's
22 acceptable to our patients.

1 And I think that the right threshold for
2 the discussion is: At what point do we continue to
3 allow patients to make informed decisions about this?
4 And I think that there is a degree of modest disability
5 where that is allowable, where I wouldn't allow my
6 mother -- I would allow my mother into the trial, but
7 would I allow her to make her own decision? Damn well
8 right, because she makes her own decisions. She
9 doesn't ever call me.

10 So, where is that point where you allow
11 informed decision-making to be made on the part of the
12 patients? And I'm not sure about that. But I think
13 that that's the issue, not where we think personally
14 that line is drawn.

15 CHAIRMAN BRAUNSTEIN: Dr. Silverstein?

16 DR. SILVERSTEIN: I think Dr. Bone made a
17 very reasonable suggestion, which is that drugs of
18 unknown efficacy should first be tried in a low-risk
19 population, in placebo-controlled trials to
20 demonstrate efficacy. And then for the high-risk
21 people, be in comparative studies, superiority.

22 You didn't say that, but that's my --

1 DR. BONE: Yes. My additional comment to
2 that was, I thought that it should come after some
3 initial evidence of efficacy in a lower-risk patient
4 population.

5 DR. SILVERSTEIN: Right, then the higher
6 risk.

7 DR. BONE: Bear in mind here, as Dr.
8 Abadie pointed out, in places where there are -- let's
9 say, social consensus -- about what medications are
10 provided by social health schemes in, say in Europe
11 and actually in Canada, the patient with a low bone
12 density and no fracture is not considered a patient
13 for whom treatment will be provided -- if one of these
14 active agents would be provided, beyond calcium and
15 vitamin D.

16 So there's -- we're not talking about
17 something where there's a compelling consensus that
18 active pharmacological intervention beyond that kind
19 of support is compelling.

20 CHAIRMAN BRAUNSTEIN: Dr. Levitsky?

21 DR. LEVITSKY: Well, I think that the
22 issue of social consensus is a real one. But the

1 social consensus in this country is probably somewhat
2 different right now. And if we can define an
3 appropriate social consensus that would allow us to
4 study a low-risk group that would not otherwise be
5 treated, that's one thing.

6 But if we have a relatively low-risk group
7 for whom the medical consensus presently is that they
8 should be receiving Alendronate once a week, or
9 something like that, then it's very hard to see not
10 offering them that, unless they are among that group
11 who cannot take this drug or who are very much aware
12 that that drug is available and do not wish to take it
13 and wish to join that trial. That is a very difficult
14 road to walk when you're consenting patients.

15 CHAIRMAN BRAUNSTEIN: Dr. Zerbe?

16 DR. ZERBE: I just want clarify one
17 practical issue related to informed consent.

18 I think it's fair to say that companies
19 would be very reluctant to in any way to put together
20 or approve informed consent, which viewed in
21 retrospect, could be considered as inadequately
22 informing. So I think there's a lot of care in

1 presenting for protection, if nothing else, a very
2 conservative description of the risks that are
3 associated with that.

4 CHAIRMAN BRAUNSTEIN: Dr. Temple?

5 DR. TEMPLE: I think some of the
6 discussion of what the consensus is is very important
7 to this. I must say, I think that's the argument that
8 works.

9 The distinction between Amoxicillin and
10 this is perfectly clear. There was no evidence in
11 fact that Amoxicillin was useful for a middle ear
12 infection. So, it's obviously perfectly reasonable to
13 use placebo-controlled trials. Also, nothing much
14 happens to you if you don't get treated right away.

15 In this case, everybody believes that at
16 least certain drugs, not the one that's in the study
17 or the placebo, actually work. That's a different
18 situation. You're denying someone therapy that you
19 all believe works.

20 But, if that's not really the ordinary
21 practice -- there have been ethical discussions about
22 this by Benjamin Freedman and others, who was not a

1 fan of placebos, that said if there's real data in the
2 community or uncertainty about whether it's worth even
3 on economic grounds, then that's a legitimate area to
4 continue to carry out studies.

5 I just think it's very important to make
6 those parts of the arguments, because I'm worried
7 about this.

8 CHAIRMAN BRAUNSTEIN: Dr. Lukert?

9 DR. LUKERT: Well, I just want to second what Dr.
10 Cummings was saying about taking away patient
11 autonomy. I've been astounded at the discussions that
12 we've had in several different venues on this subject
13 -- of how the patient's decision to enter a trial is
14 just totally disregarded. I mean, it's as if they
15 shouldn't make that choice because we know that
16 treatment is better for them.

17 And, there are a lot of people who will
18 make the decision to enter a trial, even with knowing
19 these are your risks for fracture, the pros and cons
20 of entering this trial. A lot of people are still --
21 there must be some altruism still present in the
22 world, and I think we should not take away the

1 autonomy of an individual to make those decisions.

2 CHAIRMAN BRAUNSTEIN: We'll give Dr.
3 Marcus the last word.

4 DR. MARCUS: First of all, I think that
5 it's not really accurate to say that we're denying
6 treatment. Any patient, who has ever been in a
7 clinical trial that I've been involved with who said
8 that they would like to drop out of the trial and be
9 on drug "X", went with my blessings and with my
10 goodwill and agreed to be part of the follow up
11 studies.

12 So, we are not denying anybody therapy.

13 I was a trial investigator for Merck's FIT
14 trial for the NIH PEPI trial, as well as for a Lilly's
15 MORE trial, so I have personally consented well more
16 than 1,000 patients in osteoporosis clinical trials
17 over a span of 12 years. I have been overwhelmed by
18 the number of women who say they want to participate
19 in the trial because they want to do something which
20 will ultimately help their daughters and help other
21 people.

22 The altruism gene is very strong, and the

1 ethics community in this field seems to disregard it
2 entirely. And I think that's a very bad precedent.

3 CHAIRMAN BRAUNSTEIN: We'll give Dr.
4 Orloff the chance to make some final comments.

5 DR. ORLOFF: I want to thank everybody for
6 an incredibly thoughtful morning and afternoon, and a
7 lot of hard work. I think it's quite remarkable that
8 we were so successful in convening this group on
9 relatively short notice.

10 As I said earlier, Henry Bone deserves a
11 lot of credit for his input, as does Eric Colman, of
12 course, who headed up the FDA side of things.
13 Kathleen Reedy did the organization, and Dr.
14 Braunstein clearly isn't particularly rusty after all
15 these years out of the game.

16 I also wanted to say that if you move,
17 make sure we have your phone number. But even if we
18 don't, we will find you, because this is not the end
19 of this discussion.

20 We've got a good group. I'm sure we'll
21 call on you again. It'll take us quite a while to go
22 through the transcripts and decide where to proceed

1 next. But, we've got a good start, so thank you all
2 very, very much.

3 CHAIRMAN BRAUNSTEIN: Thank you.

4 (Applause.)

5 (Whereupon, the above-entitled meeting was
6 concluded at 5:31 p.m.)

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CERTIFICATE

This is to certify that the foregoing transcript in the
matter of: Endocrinologic and Metabolic Drugs
 Advisory Committee Meeting

Before: FDA-CDER

Date: September 25, 2002

Place: Silver Spring, Maryland

represents the full and complete proceedings of the
aforementioned matter, as reported and reduced to
typewriting.


