

1 whether the non-small-cell lung cancer data, but
2 certainly head and neck cancer.

3 Let's see, Dr. Pazdur, are we actually voting
4 per tumor?

5 DR. PAZDUR: No.

6 CHAIRPERSON ECKHARDT: Okay. Just whether or
7 not there should be any specific restrictions?

8 DR. PAZDUR: Yes. We would look at these, the
9 FDA would look at these and make a determination on what
10 tumor types we believe from these homogeneous trials
11 would potentially have problems. I'm talking about more
12 the tumor promotion issue here than a general
13 thromboembolic issue here.

14 DR. LINK: I'm confused. Are you talking
15 about studies to be done, or something to put on the
16 label?

17 CHAIRPERSON ECKHARDT: No, it would be
18 something specific on the label.

19 DR. LINK: There is something already on the
20 label?

21 DR. PAZDUR: No, not to use them.

22 DR. LINK: You mean, like, not approved for

1 use in children kind of thing?

2 DR. PAZDUR: Yes.

3 CHAIRPERSON ECKHARDT: Exactly.

4 DR. LINK: Oh, okay.

5 CHAIRPERSON ECKHARDT: Yes. Other discussion?

6 Yes, Dr. go ahead.

7 DR. PERRY: The quality of data that you

8 have among these various tumor types is pretty

9 variable. I don't think you have the data in breast

10 cancer. That's a flawed study with what the authors

11 admit is an imbalance in the arms. Wouldn't you rather

12 have something that says

13 "We don't want any more studies of which you're trying

14 to hyperelevate hemoglobin levels" and look across a

15 broad range of tumors?

16 CHAIRPERSON ECKHARDT: Well, I just want to

17 make a comment. I think one of the issues that comes

18 up when we start restricting is at what level of data

19 are you comfortable doing that? It is a

20 supportive-care regimen. I think we all agree that if

21 you flip the

22 tables and said, "Is there anything in here that is

1 worthy of approval in the reverse direction, you know,
2 the data is not that solid but we're just looking at
3 safety signals."

4 The question would be, based on the data that
5 is presented today whether or not in fact there should
6 be one of these diseases until we have more data that
7 should be excluded from receiving this as supportive
8 care? Again, this is treatment that does not prolong
9 life.

10 DR. PERRY: Absolutely true, but I hate to
11 tell people who take care of breast cancer patients they
12 can't use it based on the BEST trial. I mean, if we had
13 two or three other good trials, I might be convinced.

14 DR. BRAWLEY: The onus of the law, though, is
15 the opposite, and that is, it is on the company to prove
16 that drug is safe, not for us to prove.

17 DR. PAZDUR: That it's unsafe.

18 DR. BRAWLEY: That it's unsafe.

19 DR. KEEGAN: Yes. It's also a little
20 confusing if you're going to recommend large, simple
21 trials to then look at one of the few large, simple
22 trials we have with survivals and endpoints and say it's

1 not credible. Maybe you could also clarify that.

2 DR. PERRY: I'm quoting from the author of the
3 paper, he says:

4 "Unfortunately, because of drawbacks in the
5 designs of the current study, a possible imbalance
6 between groups of various risk factors and the
7 unanticipated hemoglobin outcomes of the trial, the
8 survival results have been difficult to explain."

9 You know, if the author of the trial is wishy
10 washy about it, it's hard for me to be very definitive
11 and say, "Gee, I'm going to make a uniform prescription
12 against the use of this for breast cancer patients."

13 DR. PAZDUR: We understand this; okay. There
14 is no perfect data that exists with all of these tumor
15 types here. That's why we are asking the question do
16 you think that the data that we have, because none of
17 these studies have really addressed the population that
18 is in the indicated population, these are safety
19 signals, "do they rise to enough clinical concern on
20 your part that you would say "Because of the BEST trial
21 I don't think we should use this in breast cancer"?"
22 This is what we're asking.

1 CHAIRPERSON ECKHARDT: Dr. Mortimer.

2 DR. MORTIMER: I actually think because of the
3 BEST trial we should not use this in breast cancer. I
4 mean, as has already been said, the responsibility of
5 the sponsor to convince us that this is a safe drug, not
6 that a negative result is not negative, by not including
7 metastatic breast cancer, then the trial, the one trial
8 out there that is appropriately designed and powered
9 with an appropriate endpoint would be able to be
10 completed.

11 I think what we heard from the breast cancer
12 advocacy group today would certainly indicate to us that
13 the breast cancer patients are not enthusiastic about
14 receiving EPO as it stands right now.

15 CHAIRPERSON ECKHARDT: Dr. Krook.

16 DR. KROOK: I really think that the group that
17 we should not use these except in the clinical trial are
18 the adjuvant trials. Now, Kathy over here, I mean, she
19 talked a lot about it.

20 But I think unless it's in a clinical trial in
21 the adjuvant setting and I can go colon or GI or breast
22 and if you want to throw lung in there the same, these

1 are the people who don't have metastatic disease. If
2 you have metastatic disease, it's a different situation.
3 But these are people who are probably cured by their
4 initial therapy.

5 CHAIRPERSON ECKHARDT: Dr. Richardson.

6 DR. RICHARDSON: I'm troubled by two of the
7 curves that we saw today, one this afternoon, which I
8 believe was the Mobus trial and that was the adjuvant
9 group that was separated out. That set of curves looked
10 very much identical to the set of curves from this
11 morning where there was this early separation.

12 Here you are looking at a group of patients
13 treated in an adjuvant setting where there seemed to be
14 a difference in survival early on in this group, and so
15 there is something happening I think while these
16 patients are on treatment that seems to then disappear
17 when they are off treatment. I find that a little
18 troubling.

19 CHAIRPERSON ECKHARDT: Dr. Murgo.

20 DR. MURGO: I share the concerns that have
21 been expressed, but just for clarification, I'm assuming
22 that we are talking about precautions and in no way

1 talking about contraindications? Can I make that
2 assumption?

3 MS. KEEGAN: Or, perhaps a statement in the
4 indications "It is not indicated for." It would be
5 different from an contraindication, but it would be
6 somewhat stronger than a precaution.

7 DR. MURGO: I agree because I think it would
8 be wrong to put it as a contradiction as an implication
9 for patients that even in the adjuvant setting there
10 might be some reason to use it.

11 CHAIRPERSON ECKHARDT: Ms. Schiff.

12 MS. SCHIFF: Yes. Two women who spoke today
13 were metastatic and they both have lived so far for,
14 like, eight years. I don't see why we would take them
15 out of the mix people that we don't want to, you know,
16 promote their tumor or we don't want to make them
17 resistant to chemotherapy.

18 CHAIRPERSON ECKHARDT: Dr. Perry.

19 DR. PERRY: I just want to make sure my
20 colleagues understand, my breast cancer colleagues who
21 are among the leaders in the field, that if you say no,
22 if you vote the way I understand, you're not going to

1 make it possible for any dose-dense chemotherapy to be
2 delivered without transfusing patients. Because dose-
3 dense adjuvant therapy for breast cancer has a --

4 MS. SCHIFF: It's given a lot without
5 tranfused.

6 DR. PERRY: You give it a lot, but you don't
7 give it entirely. In most of the women who get it in
8 the trial got growth factors.

9 MS. SCHIFF: Speak for yourself, Dr. Perry.

10 A PARTICIPANT: Four percent in the sequential
11 arm, not the combination arm.

12 DR. BRAWLEY: Well, I'll be unpolitic. A hell
13 of a lot of people get growth factors because doctors
14 make 1,200 bucks a shot off of it, not because they need
15 it.

16 DR. PERRY: Agreed, but those in universities
17 those.

18 CHAIRPERSON ECKHARDT: Dr. Redman.

19 DR. REDMAN: Well, two comments. Because you
20 just made that, you and I can't change that, okay,
21 number one. Number two, the BEST trial was trying to
22 push the envelope or push revenue, either way you want

1 to look at it.

2 To condemn and say you can't use it in breast
3 cancer to get a hemoglobin between 10 and 12, I think is
4 inappropriate.

5 The side-effects or the decrease in survival
6 or relapse was seen that I'm trying to push the drug to
7 achieve a hemoglobin greater than any of us would do
8 alone with blood transfusions, and now you're going to
9 take back and say, "Well, between 10 and 12 it shouldn't
10 probably be used, either." It doesn't make sense to me.

11 I may be missing something; I don't know.

12 DR. MARTINO: I agree with Bruce Redman on
13 this. I bring you back to the basic point that most of
14 the information we know is patients who are treated
15 beyond a point where any of us would tend to bring them
16 in, and certainly way beyond a point where you would
17 transfuse them to.

18 Maybe some of you think it's fair and
19 appropriate to just sort of take that data and bring it
20 down to patients who have hemoglobins of 9 and 10 and
21 11, but I'm not sure that I can honestly do that. I am
22 functioning from a perspective of extreme lack of

1 knowledge as I'm going through these questions.

2 CHAIRPERSON ECKHARDT: Ms. Haylock.

3 MS. HAYLOCK: Just in relationship to this
4 number two question and number three question, could you
5 just clarify, is there different labeling language that
6 relates to the MDS use versus cancer use in some of the
7 comments that were made this morning by the MDS
8 advocates?

9 DR. KEEGAN: The erythropoietin products that
10 are marketed in the U.S. are not labeled for myeloid
11 malignancies nor for MDS. We have no data that has been
12 submitted to the Agency in support of that.

13 DR. PAZDUR: I would strongly echo that these
14 are really different situations, and they really need a
15 supplemental NDA for these indications. The sponsor
16 really should work with us and with these groups to
17 bring in this data to have a supplemental indication on
18 the books.

19 They are much different from the situation
20 that we are talking about with general anemia of cancer,
21 which we are usually talking about solid tumors that are
22 burnt out, et cetera.

1 I don't think there is any implication to what
2 they various diseases were in the open public hearing
3 and the indication of the anemia of cancer type of
4 situation. I think those are two opposite, different
5 things.

6 Unfortunately, I do not want them to get swept
7 away with this. We will discuss with our colleagues in
8 CMS to make sure that that does not occur.

9 CHAIRPERSON ECKHARDT: I think that would make
10 us all feel better.

11 Dr. Mortimer.

12 DR. MORTIMER: If we go on the assumption that
13 hypertreating patients is not fair to judge them in
14 that, then it's up to the company to demonstrate that
15 it's safe to administer this drug under other
16 circumstances.

17 But I guess the other argument is, why would I
18 treat somebody if I don't have a compelling reason that
19 they are getting benefit from it? There is no clear
20 evidence that quality of life has been impacted, and so
21 I have a hard time excluding breast cancer patients from
22 restriction because I don't see an added value to

1 treating them.

2 CHAIRPERSON ECKHARDT: Comments?

3 Dr. Murgo.

4 DR. MURGO: I guess my concern is in looking
5 at this is that in order for the amount of information
6 that needs to be put in here for prescribers of patients
7 as well to understand what is meant by the specific
8 tumor types studied. They really need to know a lot of
9 detail.

10 Because, I mean, even within these tumor types
11 there will be patients where administration of the
12 erythropoietin would be indicated. I'm struggling with
13 how this is going to look. In my opinion and my
14 recommendation, there really has to be given a lot of
15 thought to how this is going to be presented in the
16 package insert.

17 CHAIRPERSON ECKHARDT: I'm not sure that we
18 can really reconcile all of that now. I think the
19 current issue under discussion is sort of moving
20 towards, and again it could be complicated when it comes
21 to writing the label, but whether or not we actually
22 vote for tumor-specific restrictions in the indication

1 and the label.

2 Dr. Pazdur, do we need to actually make any
3 specifics or just yes, no, we believe disease-specific
4 restrictions--?

5 DR. PAZDUR: We're really not looking for
6 disease-specific restrictions.

7 CHAIRPERSON ECKHARDT: Right.

8 DR. PAZDUR: The general concept here is what
9 we're after.

10 CHAIRPERSON ECKHARDT: Well, the general
11 concept of restricting it--?

12 DR. PAZDUR: This would require to a tumor
13 type, if the FDA, and we could even bring this back to
14 and Advisory Committee feels that there is sufficient
15 data of a safety signal, albeit, it may be at a
16 different hemoglobin level than is currently.

17 CHAIRPERSON ECKHARDT: Okay. Any other
18 questions before we--?

19 Dr. Redman.

20 DR. REDMAN: It's tumor type, not stage?

21 DR. PAZDUR: We were looking at the tumor type
22 when writing the question.

1 DR. MARTINO: Well, we've sort of concentrated
2 on breast cancer here, but I'll remind you lung cancer.
3 If you're looking for signals, lung cancer, okay, head
4 and neck cancers, the hematological.

5 You know, there are other signals here. To me
6 it's an issue of at what point you want to draw the line
7 of are you concerned. I'm concerned with all of those
8 but not one of those in specific.

9 CHAIRPERSON ECKHARDT: Then, I think that
10 would mean a yes.

11 (General laughter.)

12 CHAIRPERSON ECKHARDT: Other discussion?

13 (No verbal response.)

14 CHAIRPERSON ECKHARDT: Okay.

15 DR. MURGO: One more. Again, what are we
16 saying, I mean, the way that it's phrased right now?

17 CHAIRPERSON ECKHARDT: I think the idea is if
18 you would want to entertain any disease-specific
19 restriction with the idea that the FDA will scrutinize
20 and have discussions and decide. But the idea is would
21 we put any disease-specific restrictions in there?

22 DR. MURGO: Without being specific as to what

1 those might be? No.

2 CHAIRPERSON ECKHARDT: Today, we do not have
3 to decide on that.

4 Yes, Dr. Link?

5 DR. LINK: I don't understand. Of course, if
6 you had compelling data, we assume that you would come
7 to a Committee and do it. Are you asking us do today we
8 have compelling data to do it? That's a different
9 question from if ever we get compelling data.

10 DR. PAZDUR: I think what we're looking at is
11 the data that you have seen, and we would go over it
12 more clearly and perhaps bring this back to the Advisory
13 Committee.

14 Obviously, this would have to be a negotiation
15 that we have with the sponsor also. We're looking
16 basically for a general issue here of is this a
17 reasonable way to really make sure that the drug is
18 being used in a safe fashion.

19 Obviously, if we had data at the recommended
20 hemoglobin and there was a therapy-associated death rate
21 associated with it, we wouldn't having this discussion.

22 We do have these issues where we have a lot of

1 imperfect data here and then the subject of protection
2 of patients. That's what we are after here with this
3 question. I think you are drilling down to a real
4 specific level, but we're looking at a more general
5 issue here.

6 CHAIRPERSON ECKHARDT: Again, I think these
7 are just with what we've seen which, as we all know, is
8 safety signals but not rigorously defined data.

9 DR. HARRINGTON: Just one comment, then, based
10 on what Dr. Pazdur said. I will vote yes on this, but
11 my yes vote really includes not only strong
12 consideration of changing the labels, but lots of hard
13 work to get the data in that you don't have right now
14 and to come back to ODAC with that data, not with the
15 same data, which will remain inconclusive, but with
16 additional data and with a crisp labeling that we can
17 have when we look at.

18 CHAIRPERSON ECKHARDT: Can we have permission
19 to sort of reformat that question within that context?

20 DR. PAZDUR: Okay.

21 CHAIRPERSON ECKHARDT: Thank you. Oh, this is
22 like the ASCO Board, I think.

1 (General laughter.)

2 CHAIRPERSON ECKHARDT: Okay. We're actually
3 voting -- if you vote yes, then it's within the context
4 of obtaining outstanding data with significant review,
5 probably another discussion at ODAC rather than merely
6 making that decision based upon data presented today.

7 DR. PERRY: That's review of studies with
8 normal hemoglobins rather than super hemoglobins?

9 DR. KEEGAN: I think it will have to depend
10 upon with we get.

11 DR. ALBAIN: Will we have another chance to
12 ask the question about adjuvant settings, then, broadly?
13 Because now the way you're rephrased this, then I'm not
14 quite sure here. The question is very different.

15 CHAIRPERSON ECKHARDT: The original question
16 really revolved, was even sort of stage-independent or
17 it was based upon disease-specific restriction on the
18 label.

19 I think what we're revolving towards is some
20 insecurity with regards to just the data presented today
21 and the fact that there probably would need to be more
22 scrutiny of the data. Again, it could be looking more

1 closely at the adjuvant data.

2 Well, I mean, but again what we have to decide
3 is if the vote is yes, you're saying yes with the idea
4 on the available data, but what we've just said is
5 perhaps that would be after obtaining the data that is
6 outstanding and looking at it and probably coming back
7 to another ODAC meeting before making that definitive
8 decision.

9 If it's no, it essentially means forget
10 it. We're not going to worry about it. We're going to
11 wait until additional data comes in.

12 DR. MARTINO: I think what I would love to be
13 able to do is to give the FDA my endorsement. I can't
14 use the word authority because I have no such, but my
15 endorsement that you have the right to say to the
16 pharmaceutical company "You can't use it in breast
17 cancer, you can't use it in this," you know, that you
18 can be that specific. Is that what you want from us?

19 DR. PAZDUR: In a sense, but I think the issue
20 here is the safety signals are not perfect because they
21 are being used in higher hemoglobins. Does that level in
22 that different population rise to a level that you would

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1 say "I'm not going to use this in breast cancer at all"?

2 Okay?

3 CHAIRPERSON ECKHARDT: Dr. Link.

4 DR. PAZDUR: We are asking the question, this

5 is an exploratory question, and we're throwing it out.

6 Obviously, we've had difficulty with it, or we wouldn't

7 be asking you, the gurus.

8 CHAIRPERSON ECKHARDT: Thank you.

9 Dr. Link.

10 DR. LINK: Okay. You've got me confused now.

11 Why don't we vote on do we have enough data today to

12 endorse that you're going to put restrictions on the

13 label based on what you have without anything further?

14 Because that's what the original question was. I don't

15 mind voting on that.

16 I agree with what you just said. Obviously,

17 if something turns up, I think you would be remiss if

18 you didn't sort of explore it further. That would be a

19 separate question, though.

20 CHAIRPERSON ECKHARDT: We will go back to the

21 more simple question, which is basically again on the

22 data available and presented today, whether or not we

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1 would recommend that there be disease-specific
2 restrictions.

3 Yes or no, Dr. Murgo?

4 DR. MURGO: Murgo, no.

5 DR. KROOK: Krook, yes.

6 DR. REDMAN: Redman, no, for its current
7 marketing authorization.

8 DR. MARTINO: Martino, yes.

9 DR. ALLEGRA: Allegra, yes.

10 DR. LINK: Link, no.

11 MS. HAYLOCK: Haylock, yes.

12 DR. HARRINGTON: Harrington, no.

13 DR. DOROSHOW: Doroshow, yes.

14 DR. MORTIMER: Mortimer, yes.

15 CHAIRPERSON ECKHARDT: Eckhardt, yes.

16 DR. RICHARDSON: Richardson, yes.

17 DR. PERRY: Perry, no.

18 (General laughter.)

19 MS. SCHIFF: Schiff, yes.

20 DR. BRAWLEY: Brawley, yes.

21 DR. ALBAIN: Albain, yes.

22 DR. STRONCEK: Stroncek, yes.

1 CHAIRPERSON ECKHARDT: Twelve yes, five no.
2 Okay. Let's move right along to the next
3 question. Again, here we are starting to drill down on
4 the definition of anemia.

5 The question is whether or not we should
6 define a hemoglobin level in asymptomatic patients at
7 which ESAs should be initiated. I guess this comes
8 about with regards to some discrepancy between what we
9 use for transfusion and what is often used for ESAS.
10 Now, the other idea here was to proposed the baseline
11 hemoglobin level. I would love to hear some disease on
12 that.

13 Dr. Perry?

14 DR. PERRY: First, let me ask a very simple
15 question of our Chairman. What are normal hemoglobin
16 levels in Denver, Colorado?

17 (General laughter.)

18 CHAIRPERSON ECKHARDT: That isn't fair.

19 DR. PERRY: No, I think that's very fair.
20 Hemoglobin levels are very different at altitude and
21 your levels in your lab are very different when you are
22 in the Mile-High City than in Columbia, Missouri, which

1 is 777 feet at the courthouse steps.

2 I think it is a little bit difficult to make
3 one hemoglobin level fit everybody at different
4 altitudes. I think the people who are going to suffer
5 is probably the people in Denver because they will have
6 a higher need a lower hemoglobin level.

7 CHAIRPERSON ECKHARDT: I believe those can be
8 indexed to altitude.

9 (General laughter.)

10 CHAIRPERSON ECKHARDT: Dr. Brawley.

11 DR. BRAWLEY: I will just point out that one
12 key factor that we all have to keep in mind here, and
13 correct me if I'm wrong, it generally takes at least
14 three to four weeks for people to start responding to an
15 erythropoietin. To say we are going to start at seven
16 because we transfuse at seven is probably not
17 reasonable.

18 CHAIRPERSON ECKHARDT: I would agree.

19 Dr. Murgo.

20 DR. MURGO: My suggestion would be to base it
21 according to what the endpoints in the studies were.
22 The endpoint in the study was to see if would reduce

1 transfusion requirements in which case decisions as to
2 whether to treat a patient with EPO would be based on
3 whether a transfusion is indicated. I'm not sure how to
4 word that in the package insert. Obviously, there will
5 be patients who raise some hematocrit during anemia for
6 those where if the EPO wasn't available you would be
7 contemplating blood transfusion.

8 CHAIRPERSON ECKHARDT: Other comments?

9 DR. HARRINGTON: This is where we need more
10 studies? A reduction study as part of a randomized
11 trial would be very helpful here.

12 CHAIRPERSON ECKHARDT: Dr. Mortimer, did you
13 have a question?

14 DR. MORTIMER: No.

15 CHAIRPERSON ECKHARDT: Other comments?

16 DR. MARTINO: I am most concerned with not so
17 much our setting a lower limit, because I think judgment
18 has to do into setting at lower limit, but rather in
19 what we make the objective of these agents.

20 The objective has become to get them to a
21 hemoglobin of 12 at least. That's the way most
22 physicians trend to practice is to try to get them to a

1 minimum of 12; okay.

2 I'm actually more concerned with that being
3 still the goal by which people practice as opposed to
4 what I see in the new wording, but which I'm not sure
5 people are understanding or using, which is that you
6 give these agents to a point that relates to when you
7 might transfuse a patient. Obviously, I didn't read
8 ahead, but I trust you all get my point anyway.

9 CHAIRPERSON ECKHARDT: You're commenting on
10 what the higher threshold is?

11 DR. MORTIMER: Right.

12 CHAIRPERSON ECKHARDT: Any other comments?
13 Because, I mean, one of the issues could be that we
14 don't necessarily think that it's indicated to define.
15 That's really the new thing is defining the threshold.

16 DR. KEEGAN: One concern is that we are aware
17 that one interpretation of our labeling is that as soon
18 as your hemoglobin is less than 12, meaning, 11.9, there
19 are community physicians who believe you are now
20 eligible to begin ESAs.

21 CHAIRPERSON ECKHARDT: You are, that's
22 correct.

1 DR. KEEGAN: Right. I guess the question is,
2 is that an appropriate practice, particularly since it's
3 being driven by the labeling? In that setting should we
4 reconsider some clarification? Certainly, the clinical
5 study section doesn't suggest 11.9 to find a patient
6 population.

7 CHAIRPERSON ECKHARDT: Dr. Link.

8 DR. LINK: I'm hoping that there is some data
9 on this. When they came in for the indication for
10 chemotherapy-induced anemia, what were the starting
11 points that were recommended, and did it accomplish what
12 it was supposed to accomplish?

13 DR. KEEGAN: I believe eligibility criteria
14 said a hemoglobin of less than 11, so it was 10 or 9, in
15 that range.

16 DR. LINK: Because I think we have to somehow
17 balance what Otis said about, you know, you can't wait
18 until their hemoglobin is five and then start it. I
19 mean, they managed to get it through before with some
20 study that had some guidelines, so I presume that that's
21 a starting point at least.

22 CHAIRPERSON ECKHARDT: Ms. Schiff.

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1 MS. SCHIFF: I think the problem has been that
2 a lot of doctors give it to prevent, in terms of
3 prevention, so they are preventing you from getting
4 anemia as opposed to anemia.

5 CHAIRPERSON ECKHARDT: Yes, okay.

6 DR. REDMAN: I'm an academic oncologist, and
7 I'm going to step into the community for a minute.
8 Everybody is saying "I think they do this. I think they
9 give the EPO to try to prevent a transfusion.

10 When our hemoglobin is 14, I think they give
11 EPO, when a hemoglobin is 13 or 12.9. It's wonderful to
12 think that. Is there data that suggests that they are
13 actually doing that?

14 CHAIRPERSON ECKHARDT: Yes.

15 DR. REDMAN: Where?

16 A PARTICIPANT: I'm a community physician and
17 I do plenty of audits for every three cooperative
18 groups.

19 DR. REDMAN: And that's published.

20 DR. BAYNES: No.

21 DR. BRAWLEY: Does the company have that data?
22 I seem to remember 40 percent of EPO is off-label

1 indication coming from the company? Am I
2 misremembering?

3 DR. BAYNES: If could get to the slide of
4 utilization.

5 (PowerPoint presentation is in progress.)

6 DR. BAYNES: I can tell you that basically we
7 have extensive chart audit review. In fact, the vast
8 majority of ESA use is in fact within label and indeed
9 it is extraordinarily rare for someone to be starting of
10 hemoglobins above 12.

11 We also have done significant data looking at
12 early versus late intervention, that is to say, starting
13 at a hemoglobin between 10.5 and 12 versus waiting until
14 people get under 10.

15 Indeed, when we look at those data, there is
16 certainly a transfusion benefit to early intervention.
17 In fact, that has been looked at in a systematic review
18 published by Dr. Gary Lyman including five control
19 studies that have looked at that, and indeed there is
20 benefit in terms of reducing transfusion burden to early
21 initiation. In fact, practice guidelines indicate that
22 it's very reasonable, too.

1 Slide on.

2 (PowerPoint presentation is in progress.)

3 DR. BAYNES: Let me just show you the slide
4 first. This is basically looking at when do physicians
5 transfuse. This is from placebo-control data.

6 In fact, if we look at the hemoglobin level
7 prior to any transfusion, roughly, 41 percent are below,
8 at least the chart review data. Forty-one percent are
9 hemoglobins less than 8, 52.9 percent are between 8 and
10 12 for transfusion.

11 This is the position here, prior to first
12 transfusion with chart type reviews. This is where
13 transfusions are used. When we actually look at the
14 data around ESA use, in fact the use is generally
15 following practice guidelines.

16 In fact, there are two practice guidelines,
17 ASH/ASCO, which is suggested at 10; and in fact NCC,
18 which suggests 11. In fact, most practicing physicians
19 follow the guidelines used.

20 CHAIRPERSON ECKHARDT: All right. Thank you.

21 Let's move on with this vote because I think
22 it's not exactly rocket science. The idea is whether or

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1 not we think it's important that in the label that we
2 would be defining that lower threshold. Yes means yes,
3 and then we may want to try to think about what that is.
4 No means that it would be given according to the
5 current guidelines set up by either society.

6 Let's see, we're starting with Dr. Strocek.

7 DR. STRONCEK: Strocek, yes.

8 DR. ALBAIN: Albain, yes.

9 DR. BRAWLEY: Brawley, yes.

10 MS. SCHIFF: Schiff, yes.

11 DR. PERRY: Perry, yes.

12 DR. RICHARDSON: Richardson, yes.

13 CHAIRPERSON ECKHARDT: Eckhardt, yes.

14 DR. MORTIMER: Mortimer, yes.

15 DR. DOROSHOW: Doroshow, yes.

16 DR. HARRINGTON: Harrington, yes.

17 MS. HAYLOCK: Haylock, yes.

18 DR. LINK: Link, yes.

19 DR. ALLEGRA: Allegra, yes.

20 DR. MARTINO: I'm not sure I understand the
21 question. Am I agreeing that we will set the level?

22 CHAIRPERSON ECKHARDT: Yes.

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1 DR. MARTINO: Then, my answer is no, Martino.

2 DR. REDMAN: No.

3 DR. KROOK: Krook, yes.

4 DR. MURGO: Murgo, yes.

5 CHAIRPERSON ECKHARDT: Fifteen to two, yes.

6 Dr. Pazdur, did you want us to define the
7 level right here and now?

8 DR. PAZDUR: No, let's move on.

9 THE PARTICIPANTS: Let's move on.

10 DR. PAZDUR: I wouldn't want to confuse it
11 with what it should be in the Elks, for example.

12 CHAIRPERSON ECKHARDT: The Colorado adjusted
13 threshold.

14 Now, I think this next question is an
15 important one because certainly what we have seen are a
16 lot of studies at the higher level of hemoglobin, and so
17 the question would be currently the label says not to
18 exceed 12 grams per deciliter. Should we be thinking
19 about lowering that higher threshold? If so, probably
20 in another meeting we would define at what level it
21 should be suspended.

22 I think importantly we should think about

1 whether or not we have concerns about the current 12-
2 gram limit. I'll take some discussion.

3 Dr. Link.

4 DR. LINK: I'll just make one comment. We saw
5 some data about people sort of hovering in the anemic
6 but not symptomatic zone, even though they don't need a
7 transfusion, but I didn't see any data like quality of
8 life or things like that that would help us with saying
9 whether it is better to hand out at 9 or 10 or better to
10 hang out with 11 and 12 in terms of the advantage or
11 disadvantage. If you have some data, it might be nice
12 to see.

13 A PARTICIPANT: I wonder if you could
14 interrelate data because we have sort of forgotten the
15 geriatric population who might do better with more --

16 DR. CRAWFORD: Maybe I could just present this
17 one more time. Clearly, what we saw from the randomized
18 trials was when the hemoglobin was restored towards the
19 range of 11 to 12 in the ESA-treated patients whose
20 quality of life was better than the placebo control.

21 We saw that in the Littlewood data where the
22 hemoglobin was in excess of 11 in the treated and where

1 quality of life was clearly better in the placebo group
2 who hovered in the high nines throughout the treatment.

3 (PowerPoint presentation is in progress.)

4 DR. CRAWFORD: From this data, slide on,
5 again, this is a general relationship against a cross-
6 section analysis, looking at patients throughout their
7 treatment course, looking at quality of life measures,
8 and the hemoglobin at that time.

9 It shows that there is a higher average
10 quality-of-life score at higher hemoglobin levels than
11 lower levels. That 10 to 12 range corresponds then with
12 the range at which signs and symptoms of anemia would be
13 less and where the risk of transfusion could be lower by
14 restoring hemoglobin to that level.

15 As we mentioned, all the data, there is a 30
16 percent risk. If your baseline hemoglobin is 12, you
17 have a 30 percent risk of transfusion in the absence of
18 an ESA. That rate just goes up higher as you go down
19 further. I think that the lower you set the level, the
20 higher the risk for transfusion will be even with the
21 ESA.

22 Data looking at the sexes, there is not a

1 clear difference. A hemoglobin of 12 seems to hold up
2 for both men and women.

3 CHAIRPERSON ECKHARDT: Dr. Albain.

4 DR. CRAWFORD: I don't think there has been
5 enough age-related data that sorts it out.

6 DR. ALBAIN: What, practically speaking, is
7 the difference between the score at 10 and the score at
8 12 in terms of what the patients are telling you met the
9 -- no, the score of what, 47 to 55? What are we talking
10 about in that range?

11 DR. CRAWFORD: Well, normally, if you look
12 again, going back to the Littlewood data, and I don't
13 know if we want to show that slide by comparison --

14 DR. ALBAIN: No, just in general.

15 DR. CRAWFORD: If you are looking for a
16 clerical significance, you're looking for about a 10-
17 point difference. You don't see that here, but that's
18 because all these patients are being treated with ESAs.

19 DR. ALBAIN: Well, that's my point.

20 (PowerPoint presentation is in progress.)

21 DR. CRAWFORD: If you look at the placebo data
22 here -- slide up -- this is what happens. When you

1 restore hemoglobin to the range of 12, this is the
2 improvement you see in the FACT scores. Those are all
3 in clinically significant ranges by improvement.

4 In the absence of the use of an ESA, you
5 actually see the decline in quality of life, and so
6 those differences are substantial in terms of what
7 patients can measure. The next slide is --

8 DR. ALBAIN: Don't. My next question is, are
9 we talking about someone who is very independent and
10 feeling great versus they really weren't and they were
11 sitting on the couch all day? Are we talking about
12 statistically significant changes in a narrow range of
13 the score based on numbers?

14 DR. CRAWFORD: Again, David Sullivan is sort
15 of an expert on this, but he has defined this as
16 clinical significance as a three-point difference in
17 these scores by the FACT. These all exceed that,
18 particularly compared to the placebo group.

19 Those are less fatigue, more energy, better
20 quality of life -- all self-reported scores and all
21 issues that I know the FDA is still questioning about
22 some of those markers.

1 Here is a slide on the linear analog scale
2 that I think was also shown by Paul that also shows the
3 same kind of data. It shows that spread of at least 10
4 points between the placebo group, who again are hovering
5 around 9, and the group that is up in the 11 to 12
6 range. That is the range at which we're talking about
7 these differences.

8 Again, it corresponds with being symptomatic
9 or not symptomatic. To me it's not just an issue of
10 transfusion; it's an issue of quality of life in these
11 patients, whether you want them to be symptomatic
12 through their treatment or whether you can improve that.

13 CHAIRPERSON ECKHARDT: All right. I think the
14 FDA has a comment.

15 MS. BURKE: Hi. My name is Lori Burke and I'm
16 in the Study Endpoint and Label Development in the
17 Office of New Drugs. I work with the Office of Oncology
18 Drug Products when we are looking at quality of life
19 data and patient-reported outcome measures.

20 We have looked at a lot of the quality of life
21 data associated with some of these studies. The
22 measures that are used, we had referred earlier to the

1 fact that we have problems with the measures of the
2 health-related quality of life data.

3 The problem is because we don't always know
4 exactly what the measure is capturing and what it's not
5 capturing. When we are talking about fatigue and
6 vitality, those are very difficult concepts to measure.

7 In fact, there is a lot of consensus in the
8 measurement world that this is a problem and their
9 impact two separate consortia of drug company-supported
10 that are trying to develop measures of fatigue, cancer-
11 related fatigue, fatigue related to chemotherapy or
12 fatigue related to the actual oncology condition and the
13 anemia of cancer.

14 We have very different things. It is very
15 difficult to measure. We don't know what we're talking
16 about really. Patients, they don't talk in terms of
17 fatigue and vitality; they talk in terms of weakness or
18 tiredness or exhaustion or energy. Or, they might even
19 be talking in terms of discouragement or depression.
20 It's a component of depression, a component of their
21 mood.

22 All of these things need to be sorted out in

1 order to be confident that we know what we're measuring
2 and what the results are and that we can make
3 conclusions based on this improvement that we are seeing
4 with these measures.

5 CHAIRPERSON ECKHARDT: All right. Thank you.

6 DR. KEEGAN: The other question is we've seen
7 several times that slide that shows hemoglobin and
8 quality of life. I think I heard a comment that sort of
9 confronts what my suspicion was about that slide which
10 was that all of the patients on that curve received an
11 ESA, so in fact that curve does not tell you anything
12 about drug-related effects. It is simply responder
13 analysis. It doesn't mean that the drug in fact caused
14 any of those things to occur. I wanted to be sure that
15 the group listening was understanding that difference.

16 CHAIRPERSON ECKHARDT: Yes, thanks.

17 Dr. Link.

18 DR. LINK: Well, actually what I was asking
19 for and wondering is if there are similar to that and
20 people who really got transfused. In other words, blood
21 bankers must know that if your hemoglobin -- like, I'm a
22 pediatrician so people hanging around at six aren't

1 asymptomatic.

2 But they must know about why we've got
3 transfusion guidelines about why it's better to be at a
4 hemoglobin of 11. If we have that data, it wouldn't be
5 confounded by exactly what you're talking about. We
6 would just know where to set the bar.

7 DR. KEEGAN: You would get that from placebo-
8 controlled trials, which, as I said, we haven't actually
9 seen, so it's very hard for us to comment on any of this
10 data.

11 Another nuance of setting the upper limit of
12 the threshold is also that we don't know if the risk
13 factor is driven by the hemoglobin itself or if risk
14 with ESAs are partly driven by dosing and different
15 patients require different doses to get to a hemoglobin
16 level.

17 You might want to consider that when you're
18 talking about maximum hemoglobin achieved, should there
19 also be some consideration of maximum dosing.

20 CHAIRPERSON ECKHARDT: Dr. Murgo.

21 DR. MURGO: Yes. I have problems with
22 interpreting those type of data. Because, I mean, sure,

1 people who are anemic significantly or have significant
2 anemia have fatigue; they don't feel well. The drop in
3 hemoglobin sometimes, and maybe often, goes hand in hand
4 with the other effects of chemotherapy there again.

5 I don't think you can relate it, the level of
6 hemoglobin directly with the quality of life. Plus, some
7 patients, I think it's the minority of patients,
8 actually when they see their hemoglobin, it doesn't make
9 them feel all that great.

10 But I think the bigger problem is interpreting
11 what is due to the hemoglobin and what other effects of
12 the chemotherapy is doing on the patient's status, and
13 also the disease. I think it is problematic even in our
14 blinded study.

15 CHAIRPERSON ECKHARDT: Essentially, this
16 question is just asking should we lower that upper
17 threshold. I think what we have seen is that it is
18 mainly sort of this quality-of-life data that would
19 support that 12 is better than 10, better than 11.

20 What we don't know, because we have not seen
21 any dose-response relationship between the other more
22 negative issues like the thromboembolic events and we

1 also have no idea if there is any such disease
2 promotion, how that relates as you go up the hemoglobin
3 scale.

4 I think that is sort of the question. Does
5 anybody feel comfortable or feel that we have sufficient
6 data that we should propose a lower ceiling to that
7 hemoglobin? You know, I think all we have going for
8 keeping it at 12 is quality-of-life data. On the other
9 hand, it's sort of the standard level.

10 DR. REDMAN: If I'm reading this correctly,
11 the current package insert says "Each patient achieve
12 and maintain the lowest hemoglobin level sufficient to
13 avoid the need for transfusion," which leaves it up to
14 the physician, "and not to exceed 12." It's not saying
15 you have to stop at 10.5.

16 CHAIRPERSON ECKHARDT: Right, and that's the
17 question.

18 DR. REDMAN: Yes.

19 CHAIRPERSON ECKHARDT: Any other discussion?
20 People understand what we are voting on?

21 DR. PERRY: Well, just one comment. I don't
22 think that we know whether there is a relationship

1 between the dose of the ESA and the adverse events or
2 merely whether it's the presence of the ESA.

3 DR. PAZDUR: Correct, correct.

4 DR. PERRY: You could be getting an ESA at a
5 hemoglobin of eight and get a clot as well as you could
6 getting a hemoglobin of fifteen. I think we have to
7 take that part out of the equation.

8 CHAIRPERSON ECKHARDT: No, that's what I'm
9 saying is we don't have any of that dose response. We
10 clearly even at the higher dose levels were not really
11 shown that.

12 Okay. This question, then, would be voting
13 for yes or no to lowering the threshold from the package
14 insert of 12 grams per deciliter; correct, Dr. Pazdur?

15 DR. PAZDUR: (Moving head up and down.)

16 CHAIRPERSON ECKHARDT: Okay. I think we are
17 pretty clear on that. Any other discussion?

18 (No verbal response.)

19 CHAIRPERSON ECKHARDT: Okay. Which side are
20 we starting on.

21 DR. MURGO: Just a brief question. There is
22 language in there should dosing be titrated to avoid

1 transfusions currently in the--?

2 CHAIRPERSON ECKHARDT: Yes.

3 DR. MURGO: That's currently?

4 CHAIRPERSON ECKHARDT: Yes.

5 DR. MURGO: We are just voting on a level;

6 okay. Do you want me to start?

7 CHAIRPERSON ECKHARDT: Yes.

8 DR. MURGO: Murgo, yes.

9 DR. KROOK: Krook, yes, eleven. The second
10 part of the question says specify what each should be,
11 what dosage, so I did eleven.

12 DR. REDMAN: Redman, it's fine as it is.

13 CHAIRPERSON ECKHARDT: That's a no?

14 DR. REDMAN: That's a no.

15 DR. MARTINO: Martino, no.

16 DR. ALLEGRA: Allegra, yes.

17 DR. LINK: Link, no.

18 MS. HAYLOCK: Haylock, no.

19 DR. HARRINGTON: Harrington, no.

20 DR. DOROSHOW: Doroshow, yes.

21 DR. MORTIMER: Mortimer, no.

22 CHAIRPERSON ECKHARDT: Eckhardt, no.

1 DR. RICHARDSON: Richardson, no.

2 DR. PERRY: Perry, no.

3 MS. SCHIFF: Schiff, yes.

4 DR. BRAWLEY: Brawley, yes.

5 DR. ALBAIN: Albain, no.

6 DR. STRONCEK: Stroncek, no.

7 CHAIRPERSON ECKHARDT: Oh, we need a check.

8 Okay, so let's move on to the next question, which has
9 to do with the duration of use. As you know, the label
10 specifies that this is for chemotherapy-induced anemia.
11 I think one of the concerns has been that when patients
12 complete -- I think there are two concerns.

13 One is how long should these be given post-
14 chemotherapy completion with a typical cytotoxic
15 regimen. I think the other concern could potentially be
16 whether or not the use of this needs to be reevaluated
17 when a patient is starting a new regimen which, in fact,
18 may not require an ESA. I would like discussion on this
19 question.

20 DR. PERRY: Are you treating the hemoglobins
21 or are you treating the chemotherapy regimen? I mean,
22 if the patients hemoglobins fit the criteria, then I

1 think they justify treatment. If they get to a less
2 myeloexpressive regimen, then their hemoglobin levels
3 will go up and they won't need it, because of what we
4 just voted on before. I think it's moot question.

5 CHAIRPERSON ECKHARDT: How long would you -- I
6 think one of the parts of this question is in a patient
7 who actually, in fact, has finished their chemotherapy
8 regimen for the time being, how long would you continue
9 the ESA post-chemotherapy?

10 DR. PERRY: I don't think we need to specify,
11 because I don't everybody is going to return to the same
12 level, but I think most people would continue it until
13 they got up to their 11 or 12 and then stop then.

14 DR. KROOK: Or, have no response.

15 DR. PERRY: Yes. To me this is a whole lot
16 less important question than all the other things we
17 have discussed.

18 DR. MARTINO: Can I argue that at a bit?

19 DR. KROOK: Have at it.

20 DR. PERRY: Not that we've ever argued before.

21 DR. MARTINO: Doctor, absolutely not.

22 Recognize that one of the trials that was

1 shown was a trial in patients with cancer who
2 have anemia who are not being treated with
3 chemotherapy where we saw that there is a
4 detriment to their survival, okay.

5 With that study, which is one of the studies
6 that led to today's meeting, is there a point
7 in a patient where you are planning to not
8 treat any further, yet whose hemoglobin is not
9 rising?

10 DR. PERRY: It's not rising, but it is stable
11 after the therapy.

12 DR. MARTINO: Do you mean to treat them at
13 that point? Because they get into this other group of
14 having cancer anemia but not chemo where we have shown
15 that there is a worse survival.

16 CHAIRPERSON ECKHARDT: Exactly. That's true,
17 the crux of the question there. I would say that a lot
18 of clinics' support staff patients do end up on these
19 agents after having completed their chemotherapy because
20 they still continue to have an abnormal hemoglobin.

21 DR. PERRY: It also depends on which
22 chemotherapeutic agents you are using. I mean,

1 fortunately nobody uses nitrosureas anymore. But if we
2 did, you would have to say we have to treat these people
3 for at least six to eight weeks after their completion
4 of their chemotherapy to get them back up to where they
5 ought to be.

6 DR. MARTINO: I think that's issue.

7 DR. PERRY: Ron slapped me because he
8 remembers the nitrosurea.

9 MR. MARTINO: I think that's the issue is do
10 we want to set at least a conceptual framework so that
11 eight months later, because they got chemo eight months
12 previously and they are still anemic and dying, that we
13 still continue because they were on chemo before. That
14 is the point we are trying to get at.

15 CHAIRPERSON ECKHARDT: I think the number out
16 there was 90 days, right, from some of the groups, ASH
17 and others. Any other questions? Discussion?

18 (No verbal response.)

19 CHAIRPERSON ECKHARDT: The vote on the last
20 question, number four, was 6 yes and 11 no.

21 Let's see, this time we start over here, Dr.
22 Stroncek. Again, what we are voting on is

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1 recommendation of discontinuation regards post-
2 chemotherapy.

3 DR. STRONCEK: Stroncek, yes.

4 DR. ALBAIN: Albain, yes.

5 DR. BRAWLEY: Brawley, yes.

6 MS. SCHIFF: Schiff, yes.

7 DR. PERRY: Perry, yes.

8 DR. RICHARDSON: Richardson, no.

9 CHAIRPERSON ECKHARDT: Eckhardt, yes.

10 DR. MORTIMER: Mortimer, yes.

11 DR. DOROSHOW: Doroshow, yes.

12 DR. HARRINGTON: Harrington, yes.

13 MS. HAYLOCK: Haylock, yes.

14 DR. LINK: Link, yes.

15 DR. ALLEGRA: Allegra, yes.

16 DR. MARTINO: Martino, yes.

17 DR. REDMAN: Redman, yes.

18 DR. KROOK: Krook, yes.

19 DR. MURGO: Murgo, yes.

20 CHAIRPERSON ECKHARDT: Sixteen yes, one no.

21 DR. MARTINO: We haven't set a time? We

22 simply have conceptually agreed that there should be a

1 limit?

2 CHAIRPERSON ECKHARDT: That's correct.

3 DR. PAZDUR: Evaluation.

4 CHAIRPERSON ECKHARDT: Number six is somewhat
5 of a touchy-feely question.

6 DR. PAZDUR: Let's see how much we can
7 disagree on this.

8 (Simultaneous discussion.)

9 CHAIRPERSON ECKHARDT: It's cancer anemia
10 versus chemotherapy.

11 DR. PAZDUR: A big issue here, if I could
12 formulate the big picture here, obviously the indication
13 is for anemia secondary to concomitant chemotherapy.
14 There is a study out there that shows, as Dr. Martino
15 pointed out, an anemia of cancer unrelated to
16 chemotherapy, a detrimental effect on survival.

17 DR. KEEGAN: And no benefit.

18 DR. PAZDUR: And no benefit. Do people feel
19 that in the general practice of oncology people are
20 making this analytical distinction. If not, how can we
21 better really drive home this point? There is so much
22 we could with product labeling here, but do people

1 perceive this as a problem?

2 CHAIRPERSON ECKHARDT: Well, I think it's a
3 huge problem, but we started out with that problem,
4 which is the ad campaign problem.

5 DR. MURGO: Being in the community, I think it
6 is a big problem. At least watching the community
7 clinics I'm at, it is commonly given even by primary
8 care physicians who people's hemoglobin is dropping, not
9 necessarily having cancer, but it's there.

10 I think that, again, I don't know whether you
11 can use the same system that's been used, whether you
12 can have the people in the company somehow make that
13 better known or the sponsors, but grandpa with his
14 anemia and not treatment isn't going to get any better.

15 CHAIRPERSON ECKHARDT: I guess the question is
16 could you do anything like what's on cigarettes where
17 it's kind of that scary thing?

18 (General laughter.)

19 CHAIRPERSON ECKHARDT: Dr. Murgo.

20 DR. MURGO: Well, I think something can be
21 done, but it's probably beyond the scope of the Office
22 of Oncology.

1 I think that maybe the Office of Oncology can
2 work hand in hand with DDMAC -- is that what it's still
3 called -- to make sure that whatever advertisement or
4 promotion the companies put out doesn't send a message,
5 it might be consistent with what is in the package
6 insert, but it's sending the wrong message. I think
7 that that's an important thing, that should be at least
8 available for patients to actually understand.

9 CHAIRPERSON ECKHARDT: Ms. Schiff.

10 MS. SCHIFF: Yes. Unfortunately, I think that
11 we have to combat a campaign that set the wrong tone for
12 the doctors and the patients. How do you do that?

13 I think we have to reach the advocacy groups.
14 I went on a website and found that the warnings are not
15 on some of the oncology websites. I think we should ask
16 for ads on TV, specifically corrective ads that say that
17 what was done in the past was wrong. I mean, we have to
18 get patients reeducated.

19 CHAIRPERSON ECKHARDT: Dr. Martino.

20 DR. MARTINO: Two things, one, is that I'm
21 losing my train of thought here. The primary issue I
22 wanted to just remind people of is that myelodysplastic

1 syndrome falls into this category, and I do think that
2 we have to recognize them as a group where the question
3 needs to be asked.

4 Because there you have people who are very
5 transfusion-dependent for prolonged periods of time
6 where decreasing transfusions probably is a real benefit
7 to them, which is a different sort of circumstance than
8 patients who are in the hospice mode, okay, where we are
9 doing things not for the patient but rather for the
10 family and the doctor; okay. I just want to be sure
11 that we don't sort lump those patients into this
12 category.

13 I think the problem has been that physicians
14 themselves, okay, have also been sold the concept,
15 rightly or wrongly, that in fact quality of life is very
16 much improved as you use these agents. If grandpa is
17 about to die tomorrow, but if I can make his last two
18 hours a little bit better, well, surely I mean to do
19 that.

20 Now we have at least study in this population
21 that says "But, but, but grandpa might die sooner." I
22 think once we as physicians understand that and then

1 communicate that to our patients, I think the problem is
2 solvable.

3 The idea that somehow we're going to get the
4 pharmaceutical company to put up an ad that says "Gee,
5 we're sorry that we misled you" ain't gonna happen;
6 okay.

7 But I do think you do have the proper avenue,
8 which is physicians knowing that they have to modify the
9 concept with which they have approached these agents.

10 DR. KROOK: (No microphone, inaudible.)

11 CHAIRPERSON ECKHARDT: Ms. Haylock.

12 MS. HAYLOCK: I was thinking there could be
13 just a sort of blanket statement or blanket patient
14 education and professional educational materials that
15 could be distributed to all the grassroots advocacy
16 groups, like, PDQ, State of the Science, and the Office
17 of Cancer Communications, ACS literature, ASCO's
18 "Patients Living With Cancer," all of those websites
19 where patients go, what is it, ACOR, the "Association of
20 Cancer Online Resources."

21 All these places that cancer patients and
22 cancer survivors go to find literature, I think it would

1 be helpful if all this information would be put there.
2 You know, what is cancer-related anemia, what are the
3 signs and symptoms, what can you do about it, and
4 differentiate that from what is anemia associated with
5 chemotherapy, or MDS, all those things.

6 CHAIRPERSON ECKHARDT: Other comments?

7 DR. MURGO: I mean, one other avenue, and I
8 don't know if this is not the forum to discuss it, but
9 some safety issues do rise to the level where certain
10 communications can be placed on the FDA website, patient
11 information, whether this fits into that or not.

12 In my personal opinion, I think it does, and
13 that would be a place where patients could actually have
14 access to the information and benefit from certain
15 information.

16 CHAIRPERSON ECKHARDT: You have a comment?

17 MS. SCHIFF: I just wanted to ask the FDA, I
18 was under the impression that you do have authority to
19 ask for a corrective ad. Is that correct or not?

20 DR. PAZDUR: I would really have to check into
21 that. From a legal perspective, I really can't give you
22 advice on that.

1 CHAIRPERSON ECKHARDT: Other comments?

2 (No verbal response.)

3 CHAIRPERSON ECKHARDT: Then, we will move on
4 to our last question, which I think is just in my view
5 would be burning trials at the end of today that you can
6 envision that should be recommended to sort of sort some
7 of these issues with regards to tumor promotion,
8 vascular events, and so on.

9 DR. KROOK: Yes. The obvious one, which
10 probably, as Mike Perry says will never be done, is a
11 placebo-controlled ESA. The only thing I can see is to
12 piggyback to other clinical trials in metastatic breast
13 somehow.

14 I think that is the only way you are going to
15 get the answer. You can't have somebody taking off, I
16 mean, at great chance of placebo; so, I think it has to
17 be piggybacked on to other clinical trials.

18 CHAIRPERSON ECKHARDT: Dr. Brawley.

19 DR. BRAWLEY: Yeah. A couple of issues. You
20 know, we've seen a lot of sleight of hand here where
21 survival trials are shown that don't meet their endpoint
22 and then we decide that they don't show that they drug

1 is harmful.

2 What we really need is a well-set-out trial
3 with one good primary endpoint in one or a limited
4 number of diseases. I think that is probably the
5 absolute best thing that we can do for the public
6 health. I'll stop at that point.

7 CHAIRPERSON ECKHARDT: Okay.

8 Yes?

9 DR. REDMAN: I'm all for clinical trials as an
10 executive officer of Southwest Oncology Group. However,
11 most of the trials you're talking about, to answer to
12 this question, are going to be Phase III randomized and
13 you're going to tack on this to a Phase III randomized,
14 which is usually evaluating an investigational therapy
15 against a standard therapy. Now you have two variables.

16 I don't think it will be done as a standard of
17 care randomized trial versus another standard of care
18 and tagging on this. I don't think it will ever be
19 done, and in fact I think times have changed. Those
20 aren't the priorities of what we need to do in the
21 treatment of cancer.

22 CHAIRPERSON ECKHARDT: Other comments?

1 DR. MARTINO: Well, one of the things I would
2 love to see happen is to get rid of all of these trials
3 where they are using doses that we have already decided
4 we don't think are appropriate.

5 I mean, these folks are spending a hell of a
6 lot of money and time to answer questions that I think
7 we have already sort of said we ain't going to accept.

8 I realize, again, I have no power, but that
9 would be my thought. I'm just seeing an awful lot of
10 work being done that we are going to throw out.

11 DR. PAZDUR: Many of these were ongoing,
12 Silvano, and completed.

13 CHAIRPERSON ECKHARDT: Dr. Harrington.

14 A PARTICIPANT: (No microphone) All of these
15 trials were stopped in 2003-2004.

16 DR. BRAWLEY: That's true for J&J. Is that
17 true for Amgen?

18 CHAIRPERSON ECKHARDT: Dr. Harrington.

19 DR. HARRINGTON: I think the best possible
20 trial that people are recommending would be the placebo-
21 controlled trial, but I also think it would be very,
22 very hard to do that having seen many no-treatment

1 control trials fail.

2 I guess what I would urge is a trial of dose
3 reduction, I mentioned it earlier, or a trial of lower
4 targets for hemoglobin. Let's back our way down to see
5 if, in fact, while standard of care seems to include
6 using these agents, we can begin to reduce the exposure
7 burden and maybe begin to see where there is a dose-
8 response relationship.

9 CHAIRPERSON ECKHARDT: Other comments?

10 MS. HAYLOCK: I just can't but wonder what is
11 the relationship of stage of disease in comorbidities.
12 All small-cell is not the same and all breast cancer is
13 not the same. All of these just talk about site-
14 specific as opposed to the stage of disease.

15 CHAIRPERSON ECKHARDT: All right. Well, if
16 there are no other comments, then I would like to thank
17 everybody. I think we have had a very lively
18 discussion.

19 DR. PAZDUR: Thank you.

20 (Whereupon, at 4:13 p.m., the meeting was
21 adjourned.)

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