

33RD MEETING
OF THE
NATIONAL BIOETHICS ADVISORY COMMISSION

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P R O C E E D I N G S

OPENING REMARKS

DR. SHAPIRO: If I could just make a few comments. As I indicated yesterday, we are going to shift our agenda around today and try to complete our work for this meeting on the stem cell issues and then turn to the international issues as opposed to going at it the other way.

So we will proceed immediately to return to our stem cell discussion.

I do want to make one other just brief report. It is not even a report. Just a statement to the committee. We expect to be delivering the Human Biologicals Material Report to OSDP and the President later this week so it is just being in the process of production and we will get copies to every member of the commission and so on if people want extra copies. At least within a few weeks those will be available but there will be some small number available to us right away. But that is really done, it is just in the process of production and will go later this week.

THE ETHICAL USE OF HUMAN STEM CELLS IN RESEARCH

DISCUSSION CONTINUES ON DRAFT REPORT

DR. SHAPIRO: Returning to the stem cell issues. A small number of us got together late last

1 night, myself, Eric Cassell, Eric Meslin, Alex, and Jim
2 at least for part of the time, to try to just put
3 together -- take all the recommendations we -- all the
4 suggestions we got yesterday regarding changes in the
5 recommendations and tried to put them, as you can see,
6 on four or five sheets of paper and my intention today
7 is to go through these, adopt and change as necessary as
8 the commission wants, and then assume that is going to
9 be the set around which we will build the text and so
10 on. There will be further refinements and so on which
11 we will communicate as we usually do as we go through
12 this with the intent of getting this report out pretty
13 quickly.

14 So that is the intent. Obviously we thought
15 we were running out of steam late yesterday afternoon,
16 we did not have all that much more steam late last night
17 but I think I did at least scan these early this morning
18 as we went to reproduce them and it seemed to me at
19 least on the whole to get the gist of what we had
20 suggested.

21 So perhaps what I intend to do this morning
22 is just to go through these one by one and if there are
23 serious differences, if we have misstated or
24 misinterpreted what it is that the commission as a whole
25 was thinking, we ought to resolve that right now. I do

1 not think we ought to worry about small wording
2 differences although we would be grateful for those
3 suggestions as well obviously because we are going to
4 have to refine and review this language as we go forward
5 to say nothing of the changes in the text that will be
6 coming along.

7 So if there is no objection we will just go
8 through these one by one. Has everyone got one of these
9 in front of them so we can have this discussion? Okay.
10 Let's go, therefore -- we now have, if you look at this
11 sheet, we now have 14 recommendations, including one,
12 the last one, which we did not even discuss yesterday
13 because we just never got to it. That was (N) I
14 believe. And so -- but the others, I believe, we
15 discussed. So let's just go through them one by one. I
16 will read each one as you think it through and then we
17 will see what changes and so on you might wish to
18 suggest.

19 Recommendation one: "Research involving the
20 derivation and use of embryonic germ cells from
21 cadaveric fetal tissue should continue to be eligible
22 for federal funding. In addition, existing statutory
23 and regulatory provisions should be amended to include
24 the derivation and use of EG cells for research

1 purposes." That is close enough to what we decided.

2 Okay.

3 Recommendation two: "An exception should be
4 made to the present statutory ban on federal funding of
5 embryo research to permit federal agencies to fund
6 research involving the derivation and use of ES cells
7 from embryos remaining after fertility treatments under
8 appropriate regulations that include public oversight
9 and review." The substance of that has not changed but
10 the language has changed.

11 Steve?

12 DR. HOLTZMAN: This is a substantive point
13 and then just a little stylistic point.

14 DR. SHAPIRO: Get a little closer.

15 DR. HOLTZMAN: A substantive point and a
16 stylistic point. I believe, as written, this
17 unintentionally endorses the view that an exception to
18 the current ban is necessary.

19 DR. SHAPIRO: For use.

20 DR. HOLTZMAN: For use.

21 DR. SHAPIRO: A good point.

22 DR. HOLTZMAN: And, therefore, and this
23 comes a little bit from the discussion with Carol, this
24 is stylistic, why not conform more to what is the style
25 of the previous recommendation such that you would start

1 with research involving the derivation and use of ES
2 cells from embryos remaining after infertility
3 treatments should be eligible for federal funding under
4 appropriate, and then explicate in the text that follows
5 about there may be a need -- there will be a need for a
6 change in the legislation.

7 DR. SHAPIRO: How do people feel about that?

8 MR. CAPRON: An alternative -- well, I
9 just -- what I was going to suggest is that we only
10 address derivation here and then in the commentary say
11 it has already been -- but I --

12 DR. SHAPIRO: Okay. I mean, I think that is
13 a very good point. We just -- as you pointed out, we
14 just did not think it -- think it that clearly last
15 night. But I think we are all agreed on the substance
16 of this so that I do not think there is any need to have
17 discussion.

18 But, Steve, do you want to draft at the
19 break or now or whenever, just draft the change and we
20 will take a look at it because I want to -- we will
21 reproduce a set of these before we leave today so people
22 can take it with them in case they want to sort of call
23 back again but thank you very much. That is a very
24 useful point.

25 David?

1 DR. COX: There is two components to this.
2 I really like what Steve said because it confounds -- I
3 mean, we do not want to confound the use.

4 DR. SHAPIRO: Okay.

5 DR. COX: On the other hand, the wording --
6 an exception should be made to the present statutory
7 thing is very good because it shows that we are not
8 revising the law but we are making an exception to it in
9 terms of embryos. So it is almost two separate points
10 and I really like the exception part but to move out and
11 sort of say -- when you are doing this to make it clear
12 that, you know, it should be okay to continue using it
13 because that is okay right now but the new thing -- it
14 is almost like two is two different concepts put
15 together.

16 DR. SHAPIRO: I think there is a couple of
17 choices here. We could do two different
18 recommendations, for example, or put some in a
19 commentary and some --

20 DR. COX: Right. Those are details.

21 DR. SHAPIRO: Yes.

22 DR. COX: I mean -- because I am completely
23 in favor of those two points. I would not want to see
24 the wording -- that initial wording change because it
25 really, I think, is very respectful.

1 DR. SHAPIRO: Okay. We will work on that
2 but I think we all understand what we want to achieve
3 here.

4 Okay. Let me do -- recommendations three
5 and four are so similar but we -- as we decided
6 yesterday -- we would separate them because we want a
7 commentary following each one of these to be somewhat
8 different so I will read them both together and then
9 there will be comments on -- you may want to think about
10 it.

11 Recommendation three: "Federal agencies
12 should not fund research that makes embryos through in
13 vitro fertilization solely to generate human ES cells or
14 that uses ES cells so derived."

15 Recommendation four -- we will come back in
16 just a second. "Federal agencies should not fund
17 research that uses somatic cell nuclear transfer with
18 oocytes and generate human ES cells or that uses ES
19 cells so derived."

20 Carol, and then Steve?

21 DR. GREIDER: This is just a wording point
22 but the way that it currently reads, recommendation
23 three, "Solely to generate human ES cells." I do not
24 know that we are necessarily saying that one should not
25 do that solely for ES cells. We are saying that you

1 should not create research embryos. Is that -- what if
2 you create a research embryo to --

3 MR. CAPRON: You cannot do that now anyway.

4 DR. GREIDER: I see.

5 DR. SHAPIRO: Steve?

6 DR. HOLTZMAN: It is a striking fact that we
7 have "solely" in recommendation three and not in
8 recommendation four, and that could either be stylistic
9 or --

10 DR. SHAPIRO: I think it was --

11 DR. HOLTZMAN: -- late night.

12 (Simultaneous discussion.)

13 DR. HOLTZMAN: But there is a substantial
14 point for us to think about for a moment about --

15 DR. SHAPIRO: Sure, absolutely. Which is?

16 DR. HOLTZMAN: Which is are we going to
17 simply address no research purpose embryos -- no federal
18 funding for research purpose embryos for stem cells. So
19 are we going to say the broader --

20 DR. DUMAS: That is right.

21 DR. HOLTZMAN: -- when something is used for
22 stem cells and something else. Now I think it raises
23 the question that you have "solely" in one and not the
24 other. All right.

1 DR. SHAPIRO: Our intention, if I recall,
2 last night was we had -- were not making a distinction
3 that I recall. Now I came in after --

4 MR. CAPRON: This language -- one of the
5 things that was passed out previously had this language.
6 As I understood, the "solely" there is differentiated
7 from making embryos for fertility purposes and so it
8 is -- and if we said through IVF to generate ES cells
9 then we would appear to encompass excess embryos as
10 well. That is to say the embryos remaining after
11 fertility, someone would say, "Well, you are in effect
12 involved in --"

13 DR. SHAPIRO: We need some adjustments. It
14 is okay.

15 MR. CAPRON: No, I mean, perhaps we ought to
16 change the wording but the intention was not to allow
17 any implication that what we were talking about could be
18 read back to encompass --

19 DR. DUMAS: I think the term "solely" is
20 needed in each case there. As I understand it, what we
21 are saying is that when the only objective is to
22 generate ES -- so I am speaking to keep the term
23 "solely" in.

1 DR. SHAPIRO: Steve, do you have any concern
2 with using "solely" in both these cases or a reason why
3 we should not?

4 DR. HOLTZMAN: I mean, read "solely" the way
5 Alex intended it, I think, is a good point. All right.
6 I am just -- as I look at it more closely, the research
7 we are talking about is research to make an embryo as
8 not eligible for funding the way we have read it. I
9 think what we really mean is research to generate ES
10 cells wherein the -- it is from an embryo, which was a
11 research purpose embryo. So I would take a crack at
12 rewriting it. I think we need to just flip it around.

13 DR. SHAPIRO: Right.

14 MR. CAPRON: We said federal agencies should
15 not fund research to generate ES cells from embryos made
16 solely for that purpose.

17 DR. SHAPIRO: Right.

18 DR. DUMAS: And then we need to have it that
19 way because as I understand it we are recommending
20 support to generate -- I mean, to -- yes, to generate ES
21 cells from embryos that have been discarded.

22 DR. SHAPIRO: You have to remember that we
23 want to write this so that it not only deals with the
24 creation of ES -- one or the other of these techniques
25 but also the cells that they derive from them.

1 DR. DUMAS: That they derive.

2 DR. SHAPIRO: We need language that gets
3 both of these things in.

4 MR. CAPRON: Can we call them IVF embryos?
5 Do we have to say through IVF?

6 DR. SHAPIRO: I do not know what language is
7 --

8 MR. CAPRON: In ordinary language now -- if
9 we were saying federal agencies should not fund research
10 to generate human ES cells from IVF embryos made solely
11 for that purpose, solely for research purposes.

12 DR. SHAPIRO: We need another sentence which
13 talks about the uses of ES cells.

14 DR. DUMAS: I think this one is clear. I
15 think this is clear, Alex, and you remember the -- a lot
16 of different people are going to be reading this report
17 and to just refer to IVF might not be clear enough. I
18 like it like it is.

19 DR. HOLTZMAN: The problem with the way it
20 is, Rhetaugh, is the federal funding is referencing the
21 making of the embryo as opposed to the federal funding
22 for the activity of generating the ES cell. That is
23 what we are trying to address.

24 DR. DUMAS: Well, but -- go ahead.

25 DR. SHAPIRO: David?

1 DR. COX: I would the wording the way it is.
2 In order to make the ES cell you have got to make the
3 embryo and so this is in the order that is done.

4 DR. HOLTZMAN: But the federal funding will
5 likely be of the generation of the ES cell and we are
6 saying do not go get a research purpose embryo from an
7 IVF clinic.

8 DR. DUMAS: That is right.

9 DR. HOLTZMAN: And the federal funding may
10 have had nothing to do with that research purpose
11 embryo's generation in the IVF clinic.

12 MR. CAPRON: And in recommendation four we
13 actually talk about uses somatic cell nuclear transfer
14 with oocytes to generate and there it is really speaking
15 only of the technique. I mean --

16 DR. COX: Okay. I get it.

17 DR. HOLTZMAN: I think what we want is
18 something like this: "Federal agencies should not fund
19 research to generate human ES cells made from IVF
20 embryos made solely for research purposes, nor fund
21 research using such ES cells."

22 DR. DUMAS: That is not as clear --

23 MR. CAPRON: You do not need the first --

24 (Simultaneous discussion.)

1 DR. CASSELL: Sleep muddles the mind,
2 Harold.

3 MR. CAPRON: -- to generate X from Y.

4 DR. SHAPIRO: Sleep was supposed to help
5 you. That was your claim last night.

6 (Laughter.)

7 DR. _____: Eric, do that hypnosis
8 thing on yourself again.

9 (Simultaneous discussion.)

10 DR. SHAPIRO: I want you to describe that
11 technique to the whole commission at some stage.

12 Kathi?

13 DR. HANNA: I am just going to try and read
14 what I put together from what you have said. "Federal
15 agencies should not fund research to generate or use ES
16 cells from embryos made via IVF solely for that
17 purpose."

18 DR. DUMAS: But, see, that is not clear.
19 That sounds like you are saying "solely for IVF
20 purposes."

21 MR. CAPRON: Solely for research purposes.

22 DR. DUMAS: I think it is clearer the way it
23 is.

24 DR. HOLTZMAN: It is clear the way it is but
25 it is wrong. It is that simple enough.

1 DR. DUMAS: I do not understand why it is
2 wrong, Steve, so it is not simple to me.

3 DR. HOLTZMAN: It is not wrong the way it
4 is. The question is whether --

5 DR. DUMAS: It is not simple to me.

6 DR. HOLTZMAN: Yes.

7 DR. BRITO: I think -- I guess we are not
8 raising our hands here but I guess that the -- I
9 disagree. I think I agree with what Steve just said
10 because solely to generate human ES cells implies that
11 you create an embryo for research purposes as long as it
12 is not for -- and I know our mandate is to worry about
13 ES cells but I worry about a loophole here somehow that
14 somebody could create an embryo for other research
15 purposes and then as a secondary be able to use it.

16 So I think that "solely" has to define for
17 research purposes.

18 DR. SHAPIRO: Okay. Kathi, do you want to
19 read your's because it sounded right to me from what you
20 said?

21 DR. HANNA: "Federal agencies should not
22 fund research to generate or use ES cells from embryos
23 made via IVF solely for research purposes."

24 DR. HOLTZMAN: Right.

25 DR. SHAPIRO: That is correct.

1 MR. CAPRON: We need the word "human" before
2 ES.

3 (Simultaneous discussion.)

4 MR. CAPRON: And then recommendation four
5 should parallel exactly.

6 DR. SHAPIRO: Yes. And the -- and are we
7 agreed that we -- that was the intent although we did
8 not quite do it. The intent was that three and four
9 should be parallel to the commentary that follows them.
10 It is not the same so they will not be right beside each
11 other then. We will have separate commentary.

12 Carol?

13 DR. GREIDER: This is just a minor point
14 about four. The SCNT with oocytes I think should read
15 SCNT into oocytes.

16 DR. SHAPIRO: All right. Is there any
17 further comments on those two?

18 Let's now go to recommendation five. I am
19 sorry Diane is not here because this is, in part,
20 modeled on the work that she did yesterday but let me
21 read it to you. This has to do with -- if I could use
22 the expression "consent/donation" language. And it goes
23 as follows:

24 "Prospective donors of embryos remaining
25 after infertility treatments should receive timely,

1 relevant and appropriate information to make an informed
2 and voluntary choice. Prior to considering the
3 potential research use of embryos the prospective donors
4 should have been presented with the options of storing
5 the remaining embryos, donating them to another couple
6 or discarding them. If the prospective donor chooses to
7 discard the options of donating to research may be
8 presented during which presentation the person seeking
9 donation should..." and this is the conditions that are
10 listed after that. "...disclose that the stem cell
11 research is not intended to benefit the donor; make
12 clear that consenting or refusing will not affect the
13 quality of any future care provided to the prospective
14 donor; describe the general research area and the
15 specific research protocol if known; disclose the source
16 of funding and expected commercial benefits of the
17 research; make clear that embryos used in the research
18 will not be transferred to any woman's uterus; and make
19 clear that the research will involve the destruction of
20 the embryos."

21 Now the commentary after that will refer
22 people thinking about this to the points to consider and
23 so on document in the appendix, which contains even more
24 issues that surround it but it seemed to us these were

1 the basic concerns which we so to speak could not do
2 without.

3 As you can tell from the -- those of you who
4 remember yesterday, we changed -- these are not bullet
5 forms or a bunch of X's here, but we changed the first X
6 in response to a suggestion from Jim as well as the
7 second X to make sure that we had that a little more
8 accurate. I think it is fair to say that -- I think,
9 Jim, in fact, you were with us when we got to this
10 recommendation and at least that seemed to us to reflect
11 the balance of what we discussed yesterday.

12 Comments and questions?

13 DR. BACKLAR: At breakfast this morning, I
14 forget which one of you made a comment about perhaps it
15 should be patient donor. I do not remember who made
16 that comment and I wondered if we want to think about
17 that for a minute.

18 DR. SHAPIRO: The comment we made -- that
19 was in the next -- it was patient subject which comes in
20 the next --

21 DR. BACKLAR: But I am also thinking of
22 future care provided to the prospective donor. I am
23 also thinking of some aspect of patient care, too.

24 DR. SHAPIRO: Yes, that is true.

25 DR. BACKLAR: I mean, it --

1 (Simultaneous discussion.)

2 DR. BACKLAR: -- muddle it up.

3 DR. SHAPIRO: I mean, I think you are right
4 but I think we should keep the focus on donor here.

5 DR. BACKLAR: Okay.

6 DR. SHAPIRO: It makes it clear to me.
7 Eric?

8 DR. CASSELL: One of the options is present
9 with the option of storing the remaining embryos,
10 donating them to another couple -- could we change
11 "couple" to woman?

12 (Simultaneous discussion.)

13 DR. SHAPIRO: Is that the preference? Does
14 anyone object to that? Thank you.

15 Yes, Laurie?

16 DR. FLYNN: On the first X, we had a little
17 discussion about this yesterday, we have --

18 DR. HOLTZMAN: Louder, Laurie, sorry.

19 DR. FLYNN: On the first bullet we have
20 "disclose that the stem cell research is not intended to
21 benefit the donor." I wonder if, in fact, we would be
22 clearer if we just said "will not benefit the donor."

23 DR. SHAPIRO: The discussion -- the reason
24 the intended is there is because, as I recall the
25 discussion and if I have summarized it incorrectly

1 please correct me on this, was that the donor might
2 receive a benefit. It might make them feel like they
3 have done something important for someone but that is a
4 side benefit. It was not the intention. The intention
5 of the stem cell research was to find something out.
6 But -- and the donor might get some indirect benefit or
7 might feel good about it. It was an attempt to get to
8 that issue that the intended was put in.

9 DR. FLYNN: Might we -- my concern is that
10 the donor might still be under the potential belief that
11 their own particular infertility case or their own
12 particular difficulties might in some way be enhanced,
13 might be ameliorated by the donation to research. Can
14 we say that it is not intended to provide medical
15 benefit? Something that indicates -- you know, the
16 psychic benefit is there for all research donors. Those
17 things are important but the benefit that people are
18 thinking about when they make these kinds of donations I
19 think is in their own case for their own circumstance.

20 DR. SHAPIRO: I have no objection to that
21 but, Jim, you were --

22 DR. CHILDRESS: We were -- as a matter of
23 fact --

24 DR. SHAPIRO: We talked about doing that --
25 (Simultaneous discussion.)

1 DR. CHILDRESS: -- would be one way to state
2 it, sure.

3 DR. BRITO: What about to disclose that the
4 purpose of the stem cell research is not to benefit the
5 donor?

6 DR. SHAPIRO: That was --

7 (Simultaneous discussion.)

8 DR. BRITO: No, not really. I mean, that
9 way you get across the --

10 DR. SHAPIRO: I mean, I have no objection to
11 putting that in. What did you suggest, Arturo?

12 DR. BRITO: Disclose that the purpose of the
13 stem cell research is not to benefit the donor or is not
14 the purpose of using -- that way -- because not intended
15 -- I understand what Laurie is saying. I also
16 understand --

17 DR. SHAPIRO: I would be just as happy to
18 leave the structure the way it is but put medical
19 benefit, to medically benefit. Would that be --

20 DR. FLYNN: Yes.

21 DR. SHAPIRO: -- all right with you.

22 DR. FLYNN: That would help.

23 DR. DUMAS: To provide medical benefit.

24 DR. FLYNN: Provide medical benefit. It
25 just makes it clear.

1 DR. HOLTZMAN: May I make a brief suggestion
2 that you consider when you are wordsmithing that we have
3 -- it is very pithy right now, like the first sentence
4 to make an informed and voluntary choice but we do not
5 say what the choice is with respect to of the
6 disposition of the embryos is what it is, for example,
7 and then the prospective donor chooses to discard. Now
8 I think we all know what that means but you need to make
9 a decision in the final crafting whether you want to put
10 in what it is those verbs are modifying or what the
11 choice is. Okay.

12 DR. SHAPIRO: Okay. Any comments?

13 Let's go on then to recommendation six. As
14 follows: "In federally funded research involving
15 embryos remaining after infertility treatment the donor
16 may not restrict the patient/subjects who will receive
17 the cells derived from the embryos."

18 MR. CAPRON: It is actually patient-
19 subjects.

20 DR. SHAPIRO: Rather than slash, right.

21 Remember yesterday we were dealing with
22 recipient specific, we did not know who the recipient
23 was and so on and so forth, whether recipients were
24 institutions, individuals, et cetera, et cetera. So --
25 and obviously the commentary will, if anyone wants to

1 know what patient-subjects are, it will be in the
2 commentary, yes.

3 DR. GREIDER: Why restrict rather than
4 designate? Restrict sounds to me more like you cannot
5 say that, you know, Joe Blow will have --

6 DR. SHAPIRO: It parallels the Fetal Tissue
7 Statute. That was the reason. We discussed this
8 specifically but there was no other good reason.

9 DR. GREIDER: That is a good reason.

10 DR. SHAPIRO: Yes, Bette?

11 DR. KRAMER: That could be read or
12 interpreted to say that the donor could specify who it
13 went to.

14 DR. HOLTZMAN: It could say designate or
15 restrict.

16 DR. COX: The nice thing about this language
17 to me is that the -- it gets at it both ways in terms of
18 not restricting it because if you -- for us to say that
19 it cannot go to that person or go to a specific person
20 but it can go to anyone else in the world, okay, is not
21 fair either. So that this gets you coming and going.
22 This language is just right, I believe.

23 DR. SHAPIRO: Again, this is very much
24 parallel to what was in the other area because -- and we
25 are trying to just go the last mile to make sure that

1 the incentives are not there to behave in what some
2 people think are inappropriate ways.

3 MR. CAPRON: To confirm what Bette said,
4 under the existing Fetal Tissue Statute it is possible -
5 -

6 DR. KRAMER: To designate.

7 MR. CAPRON: -- to designate but what it
8 says is that no promise can be made that the donation
9 will be or is made pursuant to a promise to the donating
10 individual that the donated tissue will be transplanted
11 into a recipient specified by such individual. So that
12 -- I mean, it does not rule it out. It just says --

13 DR. GREIDER: Doesn't it happen in some
14 cases that people do designate?

15 MR. CAPRON: For fetal --

16 DR. GREIDER: Under certain cases.

17 MR. CAPRON: -- tissue?

18 DR. GREIDER: No, for donor.

19 MR. CAPRON: Oh. There is no restriction in
20 the Uniform Anatomical Gift Act. You may make a gift to
21 a specific recipient, to a hospital, to a doctor, to a
22 program. You can do any of that. The restriction is
23 under the Fetal Tissue Transplantation Act of '93.

24 DR. GREIDER: I see.

1 MR. CAPRON: And we all were colloquially
2 saying it does not allow the donor designation and
3 actually Jim was the one who pointed back to chapter
4 three where I describe it and this language is taken
5 from there and that language reflects the statutory
6 provision I just read to you.

7 DR. SHAPIRO: Bette?

8 DR. KRAMER: I am curious. What is the
9 practice in IVF clinics if they want to -- a couple
10 wants to donate the embryo to a specific woman? They
11 are allowed to do that.

12 DR. SHAPIRO: No problem. We are talking
13 solely about -- we are past that stage when you --

14 DR. KRAMER: I realize that. I was curious
15 about that.

16 DR. SHAPIRO: That is allowed. That is,
17 indeed, encourage in many ways. Okay.

18 If we can, I would like to go on to
19 recommendation seven. Donors, this is the one that used
20 to start with "sale," and that has been rewritten saying
21 that "donors may not profit from the transfer of
22 cadaveric fetal tissue or embryos remaining after
23 infertility treatments." That wording was to taken, you
24 know, to say that reasonable costs and so on can be

1 reimbursed if people who have -- but there should be no
2 profit involved here.

3 Steve, and then --

4 DR. HOLTZMAN: Two questions is the use of
5 "may" as opposed to "should." Just you should noodle
6 (sic) on that. Okay. All right. And then the second
7 is by putting in "remaining after infertility treatment"
8 we have delimited the scope of those embryos which we
9 believe ought not be sold. Right? I am sorry, those
10 tissues or embryos that ought not be sold. I am sorry.
11 Let me back up. That is just about embryos. Do we mean
12 that? I know we do not think that research purpose
13 embryos ought to be sold either. I am asking do we want
14 to delete remaining after infertility treatments?

15 DR. CASSELL: They permit research embryos
16 so --

17 DR. HOLTZMAN: They do not permit federal
18 funding. This is not about federal funding.

19 DR. SHAPIRO: This is not federal funding.
20 This particular one. This particular -- we discussed
21 this yesterday, those of you can remember, and this was
22 a statement someone said yesterday was what we believed
23 about social practice as opposed to what we believe
24 about the federal budget and so on.

25 Jim?

1 DR. CHILDRESS: Steve raised an important
2 point. We did, in working over the category of fetal
3 tissue, get rid of following induced abortions -- fetal
4 tissue, whatever the source, and probably we would like
5 to have something broader here as well.

6 DR. SHAPIRO: Alex?

7 MR. CAPRON: I asked yesterday whether your
8 language of sale meant to incorporate the costs and you
9 said no, which is why I suggested that we use this
10 language.

11 DR. SHAPIRO: Right.

12 MR. CAPRON: On further reflection I believe
13 that we do not want to adopt this language vis-a-vis the
14 donors to explain vis-a-vis programs the view has been
15 if someone supplies cadaveric fetal tissue and there is
16 a cost of transporting it, of storing it and so forth,
17 they should be able to get recompense for that.

18 Under the Anatomical Gift Act donors are the
19 only people who cannot get paid and that has been a
20 source of contention. You know, would we get -- you
21 know, that is a whole different issue. Will we get more
22 if people could be paid? But I think we open a real can
23 of worms here and get ourselves into the very practice
24 we are most concerned about, which is indirect support
25 of the creation of embryos for research, putting aside

1 the cadaveric fetal stuff, which is covered by present
2 statutes anyway. Can you imagine a situation in which
3 creative cost accountants brought out from Hollywood
4 movie studios --

5 DR. SHAPIRO: Or some other industry.

6 MR. CAPRON: -- or some other industry but I
7 just happen to know that is one of the most creative.
8 Say to a couple, "Well, if you donate we will be able to
9 pay you, of course," and then they have incorporated
10 huge amounts of costs, and the word gets around, as
11 Bette said, before, you know, people go into their
12 fertility treatments knowing that at the end they can
13 recoup.

14 Maybe they would be -- not only be hoping to
15 have and they would always want to stop their treatment
16 at a point where they could recoup some or all their
17 costs of the treatment and they would be and I -- so --
18 and I am back on the sense that the couple or the woman
19 donating should not be able to get the costs, period.

20 DR. _____: Isn't that what this says?

21 MR. CAPRON: No, it says not profit. It is
22 not for profit which means if she --

23 DR. SHAPIRO: What Alex is saying is if we
24 want to use the structure, I believe what he is saying
25 is donors may not sell.

1 MR. CAPRON: Yes. Your original view of it
2 was closer to what we really wanted. The sale should be
3 prohibited and Steve got us into this thing yesterday by
4 suggesting we go as far as gametes. We are going to be
5 dealing with all sorts of situations in which the couple
6 has paid a lot of money and it becomes very attractive
7 to say, "Well, let's stop now. We have still got five.
8 You know, can't we sell five? Couldn't we get a good
9 price for five? If we use these up and then we have got
10 one it is hardly worth it but, you know."

11 DR. SHAPIRO: How dose the committee feel?

12 DR. DUMAS: I agree with that. I think that
13 distinction needs to be made between getting money and
14 getting profit. The other thing is that this
15 recommendation, the wording is somewhat inconsistent
16 with the others, and I would suggest that we word it
17 similarly to the others about federally funded research.

18 DR. SHAPIRO: That is -- I understand the
19 point, Rhetaugh, but we talked about this yesterday. We
20 decided that this was not restricted to federally
21 funded. That is donors may not, if we use sell or may
22 not profit, whichever one we choose, regardless of who
23 they are, where they are or whether federal funds were
24 involved or not. That is what this -- I am not trying

1 to defend it for the moment. I am just trying to
2 describe what we had decided yesterday.

3 DR. DUMAS: Well, there is nothing here that
4 makes that distinction. It seems strange that it just
5 shifts from federally funded research. So it might be
6 useful orientation to use a preliminary statement
7 somewhat like the one in eight to ensure that all
8 research involving so and so is conducted in conformance
9 with ethical principles. We recommend that.

10 DR. SHAPIRO: Well, we certainly have
11 something -- if not there at least in the commentary
12 that precedes it because this is all going to have text
13 separating these things but let's go to Carol and Steve
14 and then Alex.

15 Carol, Alex, Steve.

16 DR. GREIDER: I understand the point about
17 sale versus profit but I still want to raise a question
18 about whether we want to say embryos remaining after
19 infertility treatments or we just want to stop at
20 embryos.

21 DR. SHAPIRO: It is something we are going
22 to have to decide. Let's just see what the other issues
23 are we have to decide.

24 MR. CAPRON: Well, during our early
25 discussions we said we were not going to allow any

1 payment to the fertility centers for these embryos
2 either so that they -- because their incentive was to
3 produce research embryos is the most uncontrollable
4 because it is behind professional discretion and
5 judgment, and I -- I mean, I am feeling as though this
6 is a large hole that we ought to spend a few minutes
7 plugging.

8 DR. BACKLAR: The problem, of course --

9 DR. SHAPIRO: Steve, and then Trish.

10 DR. BACKLAR: I am sorry.

11 DR. HOLTZMAN: I have got a suggestion I
12 feel Alex is probably going to hate. All right. And
13 there is a lot of --

14 DR. SHAPIRO: Maybe someone else will love
15 it.

16 DR. HOLTZMAN: Maybe someone else will love
17 it.

18 I do not know if what I have to say is worth
19 all this trouble either.

20 I would like this recommendation to be a
21 statement of principle and then let the text get into
22 all the differences between profits and allowable costs,
23 et cetera. So if I were alone in the world writing this
24 I might write it as something like cadaveric -- how do
25 you say that word?

1 DR. SHAPIRO: Cadaveric.

2 DR. HOLTZMAN: -- cadaveric fetal tissue and
3 embryos should not be commoditized as objects of
4 commerce and should not be bought and sold, and let
5 everything else go into the explanatory text.

6 DR. GREIDER: Should not be bought and sold.

7 MR. CAPRON: How about should not be bought
8 and sold.

9 DR. GREIDER: Should not be bought and sold.

10 DR. HOLTZMAN: Just that, should not be
11 bought and sold. Whatever. Just to the point.

12 DR. SHAPIRO: Say that again just to make
13 sure I get it in my head.

14 DR. CASSELL: Fetal tissue or embryos should
15 not be bought and sold.

16 DR. HOLTZMAN: And embryos should not be
17 bought and sold.

18 DR. SHAPIRO: Trish?

19 DR. BACKLAR: I think that is good. I think
20 the one aspect here that we have not thought about and
21 that it is the -- the donors who, in fact, are funding
22 the development of the embryos. I mean, they are paying
23 for this.

24 DR. GREIDER: They are paying for their
25 treatment.

1 DR. BACKLAR: And paying a lot. And often
2 in these IVF clinics they are really funding the
3 research. And it seems to me that there is something
4 there that I would like to sort of pry apart or think
5 about. I do not know. I do not -- oh, I am sorry. Go
6 ahead.

7 DR. SHAPIRO: That is not -- I mean, that is
8 true but it is not unique to this kind of clinic or this
9 kind of research, which is funded not out of thin air
10 but out of customers one way or another. So I think
11 that is true. I agree with what you said but I think --
12 I do not know that we can build that -- you know, I do
13 not know what to do with the information because they
14 have paid for that for some other purpose and we are
15 trying to make sure they are not being induced to do
16 things for yet a further purpose.

17 DR. BACKLAR: I wonder if one wants to at
18 least make some mention of it. No, you think it will
19 open a can of worms.

20 DR. SHAPIRO: Jim?

21 DR. CHILDRESS: That is the sort of thing
22 that can be developed in the commentary in the text and
23 I would just like to say I think Steve's proposal is a
24 good one and this is one area where I think that the
25 commentary will be very important.

1 DR. SHAPIRO: Now let's go to the person
2 that is going to hate this recommendation. I understand
3 the recommendation -- Steve, why don't you say it?

4 DR. HOLTZMAN: Carol wants to.

5 DR. SHAPIRO: Carol?

6 DR. GREIDER: I just wanted to respond to
7 Trish's comment because I do not think one should
8 necessarily have any commentary to that effect in the
9 text because I think we are trying to separate the whole
10 issue of why they went in for their IVF treatment. They
11 went in for their IVF treatment in order to get pregnant
12 and that was their costs and now we are talking about
13 these things that are remaining embryos and that I think
14 is no longer an issue. So I would feel uncomfortable
15 by commingling those ideas.

16 DR. BACKLAR: It is not that -- I know -- I
17 am wondering if it should be mentioned somewhere. We
18 are presuming everybody understands that and that we
19 have made the separation and that they have gone in for
20 this reason. I am just -- I do not know whether it
21 should be addressed and if somebody else is going to
22 make a big fuss about it.

23 DR. SHAPIRO: Alex?

24 MR. CAPRON: I think there is no harm in
25 explaining our reasoning process. We could take note of

1 the fact that in the context of the tissue donation,
2 professional services of obtaining the tissue and
3 transferring it are compensable. We have chosen very
4 explicitly to not make them compensable vis-a-vis this
5 process to the people, who as Trish says, have paid for
6 them. And I think, Harold, actually it is somewhat
7 unusual for the extent of their research to have been
8 patient funded. I mean, if you compare it to cancer
9 research, a lot of that --

10 DR. SHAPIRO: That is right.

11 MR. CAPRON: And so there will be some
12 people, who looking at that, will say, "But certainly
13 they meant that it is not an object of commerce if I
14 just get my cost back." And you say, "No, no, we do not
15 want --" and we would be very explicit that the risk is
16 that that will give both the program and the individuals
17 the incentive to create embryos for research purposes
18 under the guise for creating them for fertility purposes
19 and, in fact, do so precisely to become an object of
20 commerce to use the --

21 DR. BACKLAR: That is exactly what I -- I
22 did not want it swept under the rug and I think it is
23 important to explain our reasoning whenever we can.

24 DR. SHAPIRO: Thank you. Is there any -- is
25 there general agreement then that we will have

1 recommendation seven and then we will have the words but
2 we are just going to say these are not to be bought and
3 sold.

4 I do not know if you have the words, Kathi.

5 DR. HANNA: I just was not clear if you
6 wanted to say should not be bought and sold for research
7 purposes or if you wanted --

8 DR. HOLTZMAN: Should not be bought and sold
9 --

10 (Simultaneous discussion.)

11 DR. DUMAS: Period.

12 DR. SHAPIRO: What does it say now?

13 DR. HOLTZMAN: "Cadaveric fetal tissue and
14 embryos should not be bought or sold."

15 DR. CASSELL: Not "should not" "may not."
16 "Should not" is a mild statement. "May not" would be a
17 matter of law. You cannot sell them. That is all. You
18 cannot buy them and you cannot sell them.

19 DR. DUMAS: Whoever writes this --

20 DR. SHAPIRO: We are going to produce a new
21 set of these to go over shortly so why not -- whatever
22 you have there and we will go over it and if there is
23 other changes to be made we will make them.

24 Let's go on. Now to recommendation eight.

25 We now come to -- the numbers change somewhat now as we

1 go through the next ones because we have reordered some
2 of the recommendations and the next couple of
3 recommendations deal with the oversight and review
4 process that -- procedure that we want to put in place
5 here.

6 Recommendation eight begins as -- it goes as
7 follows: "To ensure that all federally funded research
8 involving the derivation and use of human ES and EG
9 cells is conducted in conformance with the ethical
10 principles and recommendations provided in this report.
11 The Department of Health and Human Services should
12 establish a national oversight panel and should have a
13 broad multidisciplinary membership, including members of
14 the public. The responsibilities of the panel shall
15 include..." and here we have a number of bullets and
16 these are what the responsibilities should include.

17 The first bullet: "Reviewing protocols and
18 approving those that meet the requirements described in
19 this report."

20 The second bullet: "Maintaining a public
21 registry regarding ES and EG cells..." it says see
22 recommendation nine. That is adequately described
23 below.

24 Third: "Establishing requirements for and
25 providing guidance to sponsoring agencies on the social

1 and ethical issues that should be considered in the
2 review of protocols."

3 Fourth: "Providing an annual report to the
4 DHHS Secretary which would include an assessment of the
5 current state of the science for both derivation and use
6 of ES and EG cells; a review of recent developments in
7 the broad category of human stem cell research; a
8 summary of any emerging ethical and social concerns
9 associated with this research; and a review of the
10 adequacy and currency of the recommendations addressed
11 in this report."

12 I am going to go to the next one right away
13 and then we will come back and discuss both of these
14 because these were all in one recommendation when we
15 looked at it yesterday.

16 And the second one, now recommendation
17 number nine, deals essentially with the registry. "The
18 national oversight --"

19 (Simultaneous discussion.)

20 DR. SHAPIRO: It is the oversight and
21 review, not the oversight and oversight. "The National
22 Oversight and Review Panel shall establish a public
23 registry, the functions of which shall include..." this
24 is now the functions of the registry. "...maintaining a
25 record of all protocols approved by the panel." The

1 second bullet: "Maintain a list of certified cell lines
2 derived from these approved protocols."

3 "In addition, the panel should request from
4 sponsoring federal agencies descriptions of all
5 protocols that use or derive ES or EG cells with any
6 available information concerning research outcomes,
7 including published papers. The private sector is
8 encouraged to submit similar nonproprietary data. This
9 database, which should be linked to the public registry,
10 will be used by the panel to track for the purposes of
11 public policy the history and ultimate use of certified
12 cell lines."

13 That, at least it appeared to us, made it
14 more explicit and more coherent the description of this
15 oversight and review panel and so on.

16 David?

17 DR. COX: So I like it in general but I
18 think, though, when I read the first bullet, okay, I was
19 confused because that bullet, okay, protocols is generic
20 and it involves protocols for deriving and protocols for
21 using. So I would just say there that there is
22 reviewing protocols deriving the cells and approving
23 those, and make clear when we are talk about deriving
24 that the use of protocols is sort of weird because it is
25 -- but it is fine. I mean, it is --

1 (Simultaneous discussion.)

2 MR. CAPRON: Can't we say protocols?

3 DR. COX: I thought of that, Alex, but
4 actually just leaving it protocols because it is a
5 protocol for deriving but it is a research protocol for
6 using but if we just say protocol and then say using
7 versus deriving then I think it will be clear.

8 DR. HOLTZMAN: We cannot use research
9 proposal because the research proposal does not use, it
10 is the protocol described in them.

11 DR. COX: Just that one change, Harold, I
12 think for me, at least --

13 DR. SHAPIRO: I understand. You want to
14 make sure these are protocols and not just all the
15 protocols around.

16 DR. COX: And whether we are -- when we are
17 talking about deriving and when we are talking about
18 using.

19 DR. HOLTZMAN: So in the first dot point
20 after protocols you would put in for the derivation of
21 ES and EG cells and then in third dot point at the end
22 you would insert the words for the use of ES and EG
23 cells?

24 DR. SHAPIRO: What is the second one? I got
25 the first bullet.

1 DR. HOLTZMAN: The first one, right, is
2 review of the protocols but if you go down to what have
3 we asked it to provide to the agencies, is the
4 principles relative to the review of the use protocols.

5 DR. SHAPIRO: Are you on eight or nine?
6 Where are you?

7 DR. HOLTZMAN: I am on eight. There is
8 three.

9 DR. GREIDER: The fourth bullet.

10 DR. HOLTZMAN: The third dot bullet.

11 MR. CAPRON: The third dot bullet should be
12 brought into parallel with the language in eleven, which
13 says research proposals utilizing ES/EG cells. They are
14 providing advice to the sponsoring agency so we just use
15 the same language. "For review of research proposals
16 utilizing ES/EG cells."

17 DR. HOLTZMAN: Are we envisaging that the
18 agency will receive proposals for protocols to derive,
19 that it will review them themselves and then they will
20 get, as it were, super review from this panel or does
21 the review go directly to this panel?

22 DR. SHAPIRO: It has to go to the agency.

23 MR. CAPRON: IRB.

24 DR. HOLTZMAN: But does the agency review
25 the protocol before it gets passed on to this group?

1 MR. CAPRON: That would depend upon the
2 agency's own --

3 DR. SHAPIRO: Yes. Whatever the rules are.
4 I could see it either way. Going at the same time.
5 Going afterwards. Whatever. That is not critical.

6 MR. CAPRON: The derivation has to go to the
7 national panel. That is the safeguard there. The
8 safeguard on utilization was the sponsoring agency. I
9 just was suggesting that we should use the same language
10 as we do in recommendation eleven.

11 DR. HOLTZMAN: Okay.

12 DR. SHAPIRO: I want to just catch up here
13 because I am behind here. The first bullet, someone was
14 -- well, David pointed out, I think correctly, someone
15 suggested words that read: "Reviewing protocols for the
16 derivation of ES/EG cells and approving those." Is that
17 -- that was the intention we have not been achieving.

18 Then there was another suggestion. Steve,
19 you had one.

20 DR. HOLTZMAN: It is the third bullet point
21 about the establishing requirements for the agency. I
22 was asking whether the requirements and guidance with
23 respect to use protocols or use and derivation
24 protocols, okay, which raise the question of they would
25 only need guidance on the latter if they were reviewing

1 the latter. What I think you folks answered is there
2 may or may not be local agency review of derivation
3 protocols.

4 What we are saying is whether or not there
5 is, this oversight board does review derivation
6 protocols and, therefore, I would agree with Alex's
7 suggestion by the -- adopting the language of eleven of
8 utilizing, all right, you appropriately gloss over both
9 cases of when an agency does and does not review a
10 derivation protocol.

11 DR. GREIDER: Where would you put the
12 language?

13 DR. HOLTZMAN: Review of protocols utilizing
14 -- right at the end of the dot point, right?

15 MR. CAPRON: Review of -- and then turn to
16 the language from eleven, research proposals utilizing
17 ES/EG cell lines.

18 DR. HOLTZMAN: Again I would use protocols
19 because proposals do not --

20 DR. SHAPIRO: Let me get --

21 (Simultaneous discussion.)

22 DR. COX: This is a suggestion that is even
23 simpler and maybe I am being too simpleminded here but
24 the -- these -- you know, social and ethical issues,
25 okay, pertain whether you are deriving them or whether

1 you are using them. They are different sets of social
2 and ethical issues but they are social and ethical
3 issues in either case. So simply in bullet number one
4 it is the derivation but in bullet number three from my
5 perspective it is the derivation and use.

6 DR. SHAPIRO: I actually like that idea
7 because they are going to be see more protocols than
8 anyone else from a wide variety of places and they are
9 in a good position to do that because some of these are
10 requirements and some of these are just guidance so they
11 might issue some guidance.

12 DR. COX: So then it does not really change
13 the language at all but it is just making clear that for
14 like a simpleminded person when they are reading these
15 are you talking about derivation or uses. So the first
16 one is derivation and the third one is derivation and
17 use.

18 MR. CAPRON: We do not want to use the word
19 "proposals" you are saying. It should be projects or
20 something.

21 DR. COX: I think "protocols" are fine
22 because they -- for the reason that Steve said.

23 DR. SHAPIRO: The way I have got it written
24 right now, and then we will work on it a little more

1 later but it is the review of research protocols
2 deriving and/or utilizing ES/EG cells.

3 Other comments on -- I guess we will go back
4 to nine now.

5 Carol?

6 DR. GREIDER: I was actually going back to
7 eight since we looked at eight.

8 DR. SHAPIRO: That is fine.

9 DR. GREIDER: At the very beginning rather
10 than starting off with the reason to make it parallel
11 with the other recommendations, can we start after the
12 comma and say, "The Department of Health and Human
13 Services should establish a National Oversight and
14 Review Panel to ensure that all federally funded --" put
15 the subject first and then say why.

16 The other thing is maybe we should consider
17 what we are going to call this because National
18 Oversight and Review Panel, it does not say anything
19 about what it is overseeing and reviewing, and if we are
20 thinking about like RAC, RAC tells you what it is. If
21 we could have something in the title. Whatever the
22 other acronym was, was fine.

23 (Simultaneous discussion.)

24 DR. GREIDER: NORC or whatever.

25 (Simultaneous discussion.)

1 DR. GREIDER: I mean, the acronym is one
2 thing but there is nothing in the title that tells you
3 what they are overseeing and reviewing. I mean, a
4 National Oversight and Review Panel could be for
5 anything. It could be for, you know, sailing
6 regulations.

7 DR. BRITO: National Stem Cell Oversight and
8 Review Panel.

9 I had a comment about the sense right after
10 that. The panel should have -- do we need to be more
11 specific about the members of the panel because I have a
12 concern here that including members of the public could
13 make it so broad and general that you could wind up with
14 a panel that is mostly scientists because you could have
15 scientists or members of the public, or is this
16 nonscientists?

17 DR. SHAPIRO: I was hesitant to start
18 dividing this up and I thought the word -- my own
19 reaction, Arturo, was that having broad
20 multidisciplinary membership means you are going to have
21 not just scientists but even lawyers.

22 (Simultaneous discussion.)

23 DR. SHAPIRO: And people like that.

24 (Simultaneous discussion.)

1 DR. SHAPIRO: To say nothing of economists
2 and so on.

3 DR. GREIDER: And Canadians maybe.
4 (Simultaneous discussion.)

5 DR. SHAPIRO: Did you all see the paper this
6 morning? It is hard to be a Canadian.

7 DR. DUMAS: Can I make a minor -- a very
8 minor suggestion in that recommendation nine? In the
9 statement?

10 DR. SHAPIRO: Recommendation nine?

11 DR. DUMAS: Yes.

12 DR. SHAPIRO: Okay.

13 DR. DUMAS: It starts, "In addition the
14 panel --" I suggest changing the words "shall collect"
15 instead of "should request."

16 DR. SHAPIRO: "Shall collect from sponsoring
17 agencies."

18 DR. DUMAS: Right. It is more definitive
19 and they may request them and not get them but what we
20 are aiming at is that they collect these things and form
21 a database.

22 DR. HOLTZMAN: That is great.

23 DR. SHAPIRO: Steve?

24 DR. HOLTZMAN: I am just endorsing that
25 point.

1 DR. SHAPIRO: Jim?

2 DR. CHILDRESS: We refer to the reviewing
3 protocols and approving those meet the requirements, and
4 the public registry and then later under nine we talk
5 about maintaining a list of certified cell lines but
6 nowhere in these recommendations, eight and nine, and I
7 am not sure that we do anywhere else either, do we say
8 anything about the task of certifying. That is it is
9 more than simply reviewing the protocols and approving
10 those that meet the requirements.

11 That is actually -- that goes beyond that
12 and unless we simply mean by that anything that is
13 approved will be listed in the registry as certified.
14 But I think that if we do not put something in the
15 recommendations we really need to spend a fair amount of
16 time in the text working out what is involved in
17 certification because it does include, given our
18 discussion yesterday, attention to those consent
19 requirements.

20 DR. SHAPIRO: That is certainly right.

21 Kathi, then Carol, then Alex.

22 DR. HANNA: That was my question about the
23 second bullet on eight. "Maintaining a public registry
24 regarding ES and EG cells." That does not quite tell me
25 what is in there and I was going to ask about has the

1 certification process been dropped. In a proposal
2 yesterday there was a sentence about cell lines
3 developed via approved protocols must be certified by
4 the panel and then cell lines developed with nonfederal
5 funds can be submitted to the panel for review and
6 certification. And I was just curious in your
7 conversations last night if you deliberately eliminated
8 that.

9 DR. SHAPIRO: Alex?

10 MR. CAPRON: No, we had not and my thought
11 was that that language really should have ended up in
12 nine. And I realize, I mean, Jim, by reason of symmetry
13 one might say, "Well, you would want it in eight and
14 perhaps you ought to allude to it in eight." But,
15 frankly, nine was the thing that we finally kind of
16 stalled out on last night because we had this large
17 paragraph which had represented a good discussion
18 yesterday about the database and that just did not lend
19 itself quite so easily to a bullet.

20 I do not like having these two bullets here
21 and then having the paragraph and it seems to me that
22 what we need to do is change, and maybe we can work on
23 this during the break or something, change the clause
24 that says, "The functions of which shall include," into

1 three sentences or three numbered subsections here
2 describing each of them.

3 The record of the protocols needs at least
4 the description, certification needs the language you
5 just read, and the database needs what is here, and I
6 think we just ought to try to massage them.

7 DR. SHAPIRO: I think that is right. I
8 think that would work but I also think I agree with what
9 Jim may have said that the second bullet above on eight,
10 that is maintaining a public registry regarding ES and
11 EG cells is not sufficient.

12 MR. CAPRON: Well, then what I think we
13 ought to do is have between reviewing and maintaining a
14 statement certifying cell lines that meet established
15 ethical guidelines.

16 DR. SHAPIRO: We need something in addition
17 to that.

18 DR. HOLTZMAN: Certifying cell lines that
19 result from approved protocols.

20 DR. SHAPIRO: Sorry, Steve. I do not know
21 where you are trying to put that phrase.

22 DR. HOLTZMAN: The second -- your second dot
23 break after "reviewing." Your second function is
24 "certifying cell lines that result from approved
25 protocols."

1 DR. SHAPIRO: Certifying cell lines. Yes,
2 that sounds like -- I wanted to go back to EG cell
3 lines, human ES, et cetera, whatever the right way to --

4 DR. CASSELL: Wait, say that again.

5 DR. HOLTZMAN: Okay. The logic is the first
6 one, they review the protocols. The third one is they
7 are going to maintain a registry which we are going to
8 describe further so in between they have a function of
9 certifying ES and EG cell lines that result from
10 approved protocols.

11 DR. SHAPIRO: Just adding an extra bullet.

12 DR. HOLTZMAN: It is an extra bullet
13 between. They review, they certify and they maintain.

14 DR. SHAPIRO: Kathi and/or Eric?

15 MR. CAPRON: Well, that does raise an issue.
16 Are they permitted to certify cell lines that result
17 from protocols in the private sector generally that had
18 met the criteria even though the research was not an
19 approved protocol or only when a protocol has in advance
20 been submitted and approved?

21 DR. HOLTZMAN: Well, in my vision of this --
22 and let's put aside grandfathering all cell lines for
23 the moment. We will have to talk about that, right?

24 MR. CAPRON: Right.

1 DR. HOLTZMAN: Is what we are envisaging and
2 encouraging is the private sector that if you want it to
3 be certified you have got to submit your protocol.

4 MR. CAPRON: In advance.

5 DR. HOLTZMAN: In advance and it has to get
6 approved just like the RAC.

7 MR. CAPRON: That is fine.

8 DR. HOLTZMAN: All right. Now whether we
9 want to put up in its function -- I thought it was
10 nicely -- by saying reviewing protocols as opposed to
11 federally sponsored projects --

12 MR. CAPRON: Right.

13 DR. HOLTZMAN: -- it just was wide open.

14 DR. LEVINSON: You said that the panel would
15 public members. If that is the case the meetings will
16 be public. You have not said whether or not the
17 protocols would be reviewed in a public session. If you
18 are anticipating and encouraging the private sector to
19 have their protocols for derivation reviewed they may or
20 may not want to have that done in public and it may be
21 proprietary. You could have provision for closing
22 meetings for discussion of proprietary information.

23 MR. CAPRON: We have that under the Federal
24 Advisory Committee's Act.

1 DR. LEVINSON: Right. But you haven't said
2 anywhere about whether meetings and reviews will be
3 conducted.

4 MR. CAPRON: Well, I do not think we have to
5 -- we are not writing a statute here. If they -- if
6 this panel is established under the Federal Advisory
7 Committee's Act the proprietary information, personnel
8 information and so forth can be kept private and
9 executive sessions close to the public can be held for
10 the discussion of that information provided that reports
11 of what was done and we do not have to write that. That
12 is the Administrative Procedures Act and a lot of other
13 stuff. So I -- the only -- I mean, if you are saying
14 should establish under the -- the panel should have
15 broad membership and be subject to the Federal Advisory
16 Committee's Act, fine.

17 My question went to the same thing that
18 Arturo had raised about members of the public and it is
19 from a different angle although you have highlighted it,
20 Rachel. Reading it this way suggests that what we are
21 saying is that it should not all be federal employees.
22 That is sort of the way you are reading members of the
23 public and, therefore, it is subject to the Federal
24 Advisory Committee's Act.

1 We intended to mean people who are not
2 specialists in any discipline but represent the public
3 more broadly. I think that is what we meant by that. I
4 think Rachel's reading is just as reasonable that what
5 we are saying is in addition to -- that this would
6 otherwise be a panel of federal employees not subject to
7 open meeting laws because those are just federal
8 employees meeting to do their job.

9 I think we anticipated both, that it would
10 be both a panel made up of -- not of federal employees
11 but of members of the public and that "members of the
12 public" in the second sense means nonspecialists. I
13 think we better use language to convey that because I --
14 it is confusing.

15 DR. MESLIN: In the recommendation itself.

16 MR. CAPRON: Well, if we want to say broad
17 multidisciplinary including nonspecialists or including
18 members of the public who are not specialists, that at
19 least says why we are using the phrase or something.

20 DR. SHAPIRO: Steve?

21 DR. HOLTZMAN: I think we can find the
22 language in various statutes or whatever which create
23 these things and things like how to establish an
24 animal -- institutional animal care and use committee,

1 you can find language there and we could come up with
2 it.

3 I think Rachel makes an important point
4 which is an opportunity for us not in recommendation
5 language but in explanatory language, and that is when
6 we get to the recommendation where we are exhorting the
7 private sector to use this under it we could talk a
8 little bit about, for example, the RAC experience and
9 how there is provisions in federal law that allows for
10 the sensitive disclosure and confidentiality, and it did
11 not impede that in the past, and we envisage that here
12 as well.

13 DR. SHAPIRO: Okay. Thank you very much.
14 That is very helpful.

15 Diane?

16 DR. SCOTT-JONES: I have a suggestion for
17 the material that is in the paragraph at the end of
18 recommendation nine. In reading all of this over it
19 seems that that is another function of the panel and
20 should be in recommendation eight and it could come
21 after the bullet that says maintaining a public
22 registry.

23 And if you use the same form it could read
24 something like collecting from sponsoring federal
25 agencies and then the rest of the language could be the

1 same. It could end with this database will be linked to
2 the public registry and that last part of the sentence
3 could be put in the explanatory material that would be
4 outside the actual recommendation because it seems a
5 little bit out of place in that it specifies a function
6 of the panel but instead of being in recommendation
7 eight along with the other functions it is just tacked
8 on at the end of recommendation nine.

9 DR. SHAPIRO: Alex?

10 MR. CAPRON: Yes. Diane, this may not have
11 worked out. We may just be better off collapsing eight
12 and nine but the thought was that we would simply allude
13 to the registry in recommendation eight and actually
14 describe the three parts of the registry, the record of
15 the protocols, the list of certified cell lines, and the
16 database of results, and explain those in nine because
17 it became too complicated to try to shovel all that up
18 under the bullets in eight, which is what you are trying
19 to do, put it back up there.

20 As I say, it may --

21 DR. DUMAS: Why don't you make it a third
22 bullet under nine.

23 MR. CAPRON: Yes, it should be. All of nine
24 has to be rewritten.

1 DR. SCOTT-JONES: Then I would say that
2 would be fine. It just seems out of place and it is
3 introduced as another function of the panel and just
4 that manner of introducing it makes it seem more
5 appropriate for eight. So I would say it would be
6 equally appropriate just to make it another bullet under
7 nine.

8 DR. SHAPIRO: If we started with "collect"
9 for example.

10 MR. CAPRON: Yes, exactly. Collect a
11 database.

12 DR. SHAPIRO: In addition, the panel --

13 MR. CAPRON: Yes, exactly. But remember
14 that is where we broke down last night and we sort of
15 said massaging that paragraph to be parallel to the
16 others was just beyond us at 11:00 o'clock.

17 DR. SHAPIRO: Lucky we do not have a
18 videotape of how we all looked at 11:00 o'clock last
19 night.

20 DR. SCOTT-JONES: You could just say
21 something like establish a database to be linked to the
22 registry and then say a little bit more from the other
23 sentences about what the database would include.

24 DR. DUMAS: Yes.

1 DR. CASSELL: Wait a minute. Where do you
2 say that?

3 MR. CAPRON: As another bullet under eight.
4 (Simultaneous discussion.)

5 DR. CASSELL: As long as it is part of the
6 recommendation and not part of the text.

7 DR. SHAPIRO: I promise, Eric, this point is
8 going to be in the recommendation and it will stay
9 there. We may readjust it here a little bit but it will
10 be in part of the record.

11 Okay. Any comments on eight and nine?

12 Recommendation ten reads as follows: "Human
13 subjects regulations should be revised as necessary to
14 make clear that protocols involving the derivation of
15 ES/EG cells must be reviewed and approved by an
16 Institutional Review Board prior to consideration by the
17 National Oversight and Review Panel. IRB's should
18 ensure compliance with any requirements established by
19 the panel, including confirming that institutions in the
20 U.S. or abroad which supply embryos or fetuses have
21 obtained them in accordance with the requirements
22 established in the panel."

23 DR. DUMAS: I have --

24 DR. SHAPIRO: Yes, Rhetaugh?

1 DR. DUMAS: I think you have got two
2 recommendations folded there and I would suggest that
3 beginning with "IRB's should" make that a separate
4 recommendation because it refers to the -- to an aspect
5 that has not been formally mentioned before and it has
6 to do with international issues and I think it ought to
7 be separated out.

8 DR. SHAPIRO: I have no objection to that.
9 Okay. Any other issues on ten?

10 Recommendation eleven: "When reviewing
11 research protocols using ES/EG cell lines all federal
12 agencies should ensure that their review processes
13 comply with any requirements established by the National
14 Oversight and Review Panel (see recommendation nine)
15 paying particular attention at the adequacy and the
16 justification for using such cell lines." So I think
17 this is something we have talked about over and over
18 again.

19 DR. HOLTZMAN: Just to make sure, you said
20 protocols instead of proposals, do we agree we are
21 making that change? I think we thought that was
22 obvious.

23 DR. DUMAS: Protocols.

24 DR. HOLTZMAN: That is actually what you
25 said, Harold.

1 DR. SHAPIRO: That is what I use all the
2 time, Steve --

3 DR. HOLTZMAN: No, I think proposals does
4 not work so I just wanted to confirm that.

5 DR. SHAPIRO: I agree with protocols.

6 MR. CAPRON: I tried to use protocols
7 yesterday and was told by Eric that that only
8 referred to --

9 DR. DUMAS: Come on.

10 (Simultaneous discussion.)

11 DR. COX: It is complicated but overall, I
12 agree with Steve, using protocols is a safer --

13 DR. HOLTZMAN: My next question is do we
14 need the "paying particular attention to the adequacy?"

15 DR. SHAPIRO: Well, do we need it? This
16 again just reflects -- I mean, yes and no is the answer.
17 It reflects the concern of many that we -- it is just
18 the principle parsimony as Alex said yesterday.

19 MR. CAPRON: Unextravagance.

20 DR. SHAPIRO: Unextravagance is what I said.
21 Parsimony is actually better. So I think that should be
22 used.

23 Recommendation twelve: "For research on
24 ES/EG cells that otherwise would be eligible for federal
25 funding NBAC encourages privately funded researchers and

1 private sponsors voluntarily to adopt the
2 recommendations of this report that apply to such
3 research, including submitting reports of protocols for
4 review to the National Oversight and Review Panel."

5 This is a recommendation trying to
6 articulate an encouragement to the private sector to use
7 the system if they wish to.

8 Alex?

9 MR. CAPRON: You know, I have a sense that
10 we need to put privately funded before research at the
11 beginning of that or really --

12 DR. DUMAS: I agree.

13 MR. CAPRON: -- otherwise you are reading
14 along and you say "otherwise be eligible," why be
15 otherwise.

16 DR. SHAPIRO: Excuse me. What is the
17 suggestion again?

18 MR. CAPRON: Putting the words "privately
19 funded" before "research" at the beginning of the
20 paragraph.

21 DR. SHAPIRO: Privately funded research on
22 ES/EG cells.

23 MR. CAPRON: Would otherwise be eligible for
24 federal funding.

1 DR. HOLTZMAN: You could just say the
2 researchers -- you could say researcher and sponsor.

3 MR. CAPRON: Yes.

4 DR. SHAPIRO: As you look at recommendation
5 twelve, let me also read out recommendation thirteen
6 because they compliment each other because
7 recommendation twelve deals with research that if --
8 that would be eligible for federal funding. Thirteen
9 deals with research that would not be eligible for
10 federal funding but these occur in the private sector.
11 So let me also read recommendation thirteen and then we
12 will come back to the change in twelve.

13 MR. CAPRON: And add the adjectives.

14 DR. SHAPIRO: Recommendation thirteen
15 currently reads: "For research projects that involve
16 deriving ES/EG cells that would not be eligible for
17 federal funding under recommendations three and four in
18 this report NBAC recommends that: (A) professional
19 societies and trade associations should develop and
20 promulgate ethical safeguards and standards consistent
21 with the principles underlying this report; (B)
22 privately funded researchers conducting this research
23 and their sponsors should voluntarily comply with these
24 standards." That is the ones established under (A), not

1 the standards in the report but the ones which hopefully
2 will be similar.

3 Those are just two. It is an attempt to
4 look at privately funded research. One that would be
5 eligible in one case and is not eligible in our
6 recommendations in another. So let's now go back to
7 twelve.

8 MR. CAPRON: Well, I think Steve is right.
9 We can actually drop "privately funded" and the word
10 "private" from the clause beginning NBAC encourages so
11 it would say "For privately funded research ES --" are
12 we using ES slash or ES and or whatever we come up
13 with? "-- ES/EG cells that would otherwise be eligible
14 for federal funding NBAC encourages researchers and
15 sponsors voluntarily to adopt."

16 Down below I would -- and we should do the
17 same thing in recommendation thirteen, which is now
18 recommendation fourteen after Rhetaugh's suggestion.
19 And we should, I believe, under (A) put the word "and"
20 between "ethical safeguards and standards" and then use
21 the phrase "safeguards and standards" in (B) and that
22 makes it much clearer that we are referring to (A).

23 DR. DUMAS: (B) is "safeguards and
24 standards."

1 DR. SHAPIRO: Okay. I am sorry. I am just
2 trying to -- Steve, and then Diane.

3 DR. HOLTZMAN: I believe but this is a
4 question also that twelve is really making reference to
5 protocols for derivation, not protocols for use.

6 (Simultaneous discussion.)

7 DR. HOLTZMAN: You are saying --

8 DR. DUMAS: The use because it would
9 otherwise be approved by the -- it could be derivation
10 and use otherwise approved for federal funding.

11 DR. HOLTZMAN: Okay. Then -- okay. If we
12 mean it generally in the preamble, the first part, it
13 can be broad. I think then in the second half when we
14 are talking -- submitting protocols for review, the only
15 protocols that are for the derivation. Okay.

16 MR. CAPRON: Correct.

17 DR. HOLTZMAN: Okay. Now I know one -- a
18 careful reader of the report would know that at this
19 point having read it from beginning to end but most
20 readers jump right to the recommendations, right, and I
21 think this is a place where there is a virtue in
22 actually saying "protocols for the derivation of."

23 DR. COX: Actually I do not agree with that
24 because --

1 DR. HOLTZMAN: Only in the second part, not
2 the first part where the protocols --

3 DR. SHAPIRO: No one else has to submit
4 these protocols here for review to NORP so there is no
5 reason, I think, why the private sector should have
6 specially --

7 DR. DUMAS: Right.

8 DR. COX: On the other hand, for
9 nonproprietary uses the database is collecting that
10 information so --

11 DR. HOLTZMAN: The first part of this says
12 that.

13 DR. SHAPIRO: It is just the review. That
14 is it is not the database. It is just the review, which
15 I think none of us want --

16 MR. CAPRON: And we are adding the phrase
17 "for the derivation of ES/EG cells" after the protocol
18 on the fourth line of --

19 DR. DUMAS: I suggest you put a period after
20 "report that apply to such research" and make a new
21 sentence so it will not be confusing about this review
22 of the protocol.

23 DR. SHAPIRO: And say this includes if you
24 want --

25 DR. DUMAS: Huh?

1 DR. SHAPIRO: You want to put a period and
2 say "this includes."

3 DR. DUMAS: Yes. This includes or they are
4 encouraged to submit protocols.

5 DR. SHAPIRO: These are protocols that
6 involve the derivation.

7 DR. DUMAS: Right.

8 DR. COX: Yes. It is still not clear to me,
9 though, where it is clear that we are encouraging
10 information about the use, also.

11 DR. SHAPIRO: It is adopting the
12 recommendations of this report.

13 DR. HOLTZMAN: We can say adopting
14 recommendations and providing information. I mean, we
15 could try providing some information or you could
16 explain out in the text about providing the information
17 to the registry, et cetera, in the database.

18 MR. CAPRON: We already have -- and this
19 would be maintained in recommendation nine that the
20 private sector is encouraged to submit similar -- we
21 cannot shove everything into --

22 DR. COX: Alex, that is the part that I was
23 missing -- thank you. Sorry. Never mind.

24 DR. SHAPIRO: Any comments beyond the ones
25 already given on recommendation thirteen?

1 Diane? Excuse me, Diane. I should have
2 recognized you before. I had you on my list and I
3 forgot.

4 DR. SCOTT-JONES: This is very minor. For
5 recommendation thirteen I think we should omit the word
6 "should" from (A) and from (B) simply because it reads
7 better to say "NBAC recommends that professional
8 societies and trade associations develop."

9 DR. SHAPIRO: That is correct.

10 MR. CAPRON: You said (A) and (B).

11 DR. CASSELL: Take the "should" out.

12 DR. SHAPIRO: That is right. I agree.

13 Here is recommendation fourteen -- I am
14 sorry. Bette and Steve?

15 DR. KRAMER: Can I go back to ten? There is
16 something about ten that is bothering me. Tying the
17 protocols about derivation and use of ES/EG cells into
18 human subjects regulations is bothering me. Does that
19 create an opening for an allegation that, in fact, we
20 consider these embryos, these spare embryos to be human
21 subjects?

22 DR. SHAPIRO: This is an issue which has --
23 you are quite right -- come up over and over again,
24 which is why we have avoided doing anything regarding
25 subpart A and subpart B and so on but we want to use an

1 existing review mechanism that is available. This is
2 what we are doing here in my estimation.

3 DR. KRAMER: I am really bothered by this
4 terribly.

5 MR. CAPRON: Well, if we were to say it
6 should be clear that they are under the jurisdiction of
7 the IRB's that would have the effect that you are
8 suggesting that we are somehow suggesting they are
9 living individuals but remember we are talking about
10 what this says is derivation.

11 It is not use and at the point of
12 derivation, although there is some ambiguity, if you are
13 dealing with human embryos the argument that you are
14 under 45CFR46 is very strong in the way that the
15 department has thus far interpreted part B that all
16 research involving embryos is encompassed within the
17 phrase "IVF" or in vitro fertilization, research on the
18 development of in vitro fertilization.

19 If you go back to the introductory language
20 when it was published in the Federal Register they did
21 not say that but they have interpreted it that way
22 consistently for the last 15 years.

23 DR. GREIDER: So could we have language to
24 that effect?

25 MR. CAPRON: In the explanatory text.

1 DR. GREIDER: Explanatory.

2 MR. CAPRON: We could say because the
3 recovery is not clear precisely because, you know, of
4 the thing that concerns you --

5 DR. KRAMER: Well, first of all -- well,
6 that is first of all but second of all isn't it -- for
7 it to be reviewed by an IRB if it is already -- if it is
8 going in -- after that go on to this other -- why is --

9 MR. CAPRON: IRB's review -- recombinant DNA
10 protocols are reviewed by both IRB's and human
11 biological materials committees at institutions before
12 they go on to the RAC.

13 DR. HOLTZMAN: Those are for gene therapy.

14 MR. CAPRON: For gene therapy, yes. Excuse
15 me.

16 (Simultaneous discussion.)

17 DR. SHAPIRO: It is duplicative in the sense
18 that more than one group is looking at it. The idea was
19 that we needed some national -- both local and national
20 review here because of the special nature of this kind
21 of materials and the concerns that are associated with
22 it. That is my -- at least that is my view.

23 Steve and Diane?

1 DR. HOLTZMAN: So earlier we had a
2 discussion about use protocols would not be looked at by
3 IRB's.

4 DR. SHAPIRO: Right.

5 DR. HOLTZMAN: Now we are coming to the
6 derivation protocols, and I know I tend to confuse in my
7 head when I think about derivation I think about
8 intervention with the woman who is donating the oocytes,
9 which is clearly human subjects, but -- and I think it
10 just is worth a pause to think about the woman could
11 have donated the oocytes and downstream the embryos
12 coming out of the freezer. My question is when those
13 things are currently used, taken out of the freeze to,
14 for example, make a DNA library, is that subject to IRB
15 review?

16 MR. CAPRON: Cannot be federally funded.

17 DR. HOLTZMAN: Cannot be federally funded.
18 A good point.

19 MR. CAPRON: We are saying it should be
20 federally funded and we are saying because it is now
21 federally funded it should be treated like other
22 protocols that involve human organisms. Now whether
23 they qualify under part A as a living individual or not,
24 they qualify under B, which covers in vitro

1 fertilization which is taken to include any manipulation
2 of the embryo.

3 DR. DUMAS: Would it be more politic (sic)
4 to cite the legislation instead of calling it human
5 subjects? Cite the legislation and say should be
6 revised.

7 DR. SHAPIRO: I think none of us have
8 suggested that we define this as being a human subject
9 as currently defined. No one has suggested that. That
10 is not either desirable or appropriate. And the real
11 question is, and we do not want to say anything that
12 would indicate that we do believe it is a human subject.

13 We could, in principle, side step the IRB
14 all together and develop another -- I do think we need
15 local review in the derivation case, not in the use
16 case. So we could develop and ask them to put up
17 another committee. Now the idea was to try not to do
18 that. There is some ambiguity as to just how over the
19 long stream of time here part A and part B are going to
20 be interpreted whether or not to include this.

21 I am myself a little hesitant to start going
22 to recommending language in the Common Rule because that
23 seems to buy into this human subjects thing which I do
24 not want to do. So I think of this myself as, yes, some
25 of these things may be covered. If they are, they are.

1 We are not saying anything about that. If not, there is
2 a local group that is used to dealing with research
3 protocols which can review and we are in that level
4 hijacking that group to do this. To me, that is
5 preferable to establishing a new set of groups which
6 will have new rules and so on and so forth.

7 (Simultaneous discussion.)

8 DR. SCOTT-JONES: Most of what I wanted to
9 say has already been said by the there or four people
10 who have spoken but the one last thing that I had to say
11 that I wanted to say in response to Bette's concern
12 about redundant efforts between the local IRB and the
13 National Oversight and Review Panel, I think we should
14 keep in mind all the layers of review of research, and
15 most institutions would want to maintain their own
16 review, whether we wrote it in our recommendations or
17 not just because they want to maintain that. Even
18 within a university a department may have reviews of
19 research conducted that is not required but they would
20 like to do that before it goes to the IRB out of their
21 department so that is the reason for it. It is not to
22 prevent redundancy or to have redundancies because
23 universities would want to do that anyway.

24 DR. SHAPIRO: Bette?

1 DR. KRAMER: If the university wanted to do
2 it that is a matter of internal policy and let them do
3 it if that is the way they want to do it but as between
4 a particular institution electing to do something in a
5 certain mode and our requiring it, I think that is two
6 very different things.

7 I am not at all satisfied that it is really
8 necessary for it to be reviewed by an IRB when it is
9 going to be reviewed by a national body which is
10 obviously going to have more informed oversight on these
11 than a local body. I do not -- and I am really
12 disturbed by it. You know, I think we have just got to
13 get it out of that --

14 DR. SHAPIRO: Let's just -- I understand the
15 point -- perspective. I certainly understand the
16 perspective but let's just see where we stand on it
17 because we really -- I do not want to spend a lot of
18 time on this but we can be for it or against it, and I
19 think there is very good reasons on both sides so let's
20 just see how many of us would like to keep this as it
21 is, that is requiring local IRB review in this
22 derivation -- in the derivation case? Okay. So we are
23 --

24 DR. BACKLAR: I have to go but could I just
25 say that I felt that what Rhetaugh suggested was very

1 good, that instead of saying "human subject regulations"
2 refer to the regulation 45CFR, however you want to do
3 it.

4 DR. GREIDER: I actually suggest an even
5 stronger revision of that and to start with
6 institutional review board review or review by an IRB
7 should be -- these protocols should be reviewed by an
8 IRB. Rather than starting off with something about
9 changing regulations, what do we want to say? We want
10 to say that these protocols should be reviewed by an
11 IRB.

12 DR. SHAPIRO: We will either do that or
13 something like that as we -- or eliminate the reference
14 to human subjects regulations and say something like
15 federal policy or something like that.

16 DR. BACKLAR: Right.

17 (Simultaneous discussion.)

18 DR. SHAPIRO: Yes, keep the concerns that
19 have been expressed all around. Okay.

20 Let's go to the last one and then we are
21 going to take a break as we try to rewrite this. This
22 is one we did not deal with at all yesterday and it
23 reads as follows:

24 "The National Oversight and Review Panel and
25 the public registry described in recommendations eight

1 and nine..." I am not sure that is correct anymore but
2 it may be, yes. "...should be sunset after a period of
3 five years and the process and substance of their
4 activity independently evaluated to determine whether
5 these mechanisms have adequately performed their
6 functions."

7 DR. CASSELL: Do we have to use the word
8 "sunset."

9 (Simultaneous discussion.)

10 DR. SHAPIRO: All right. Yes, Alex?

11 MR. CAPRON: Could I take us back to
12 recommendation -- the second sentence of recommendation
13 one just for a second?

14 DR. DUMAS: Are we finished with fourteen?
15 Are we all done with that one?

16 (Simultaneous discussion.)

17 DR. DUMAS: Okay.

18 MR. CAPRON: It now says, "In addition,
19 existing statutory and regulatory provisions should be
20 amended to include the derivation and use of EG cells
21 for research purposes." I think I may have written that
22 so I am not criticizing somebody else. It just falls
23 flat to me. Let me try an alternative.

24 "In addition, relevant statutes and
25 regulations should be amended to make clear that

1 existing ethical safeguards apply to the derivation and
2 use of EG cells for research purposes.

3 DR. GREIDER: Great.

4 (Simultaneous discussion.)

5 DR. SHAPIRO: Okay. What I would propose
6 now, I have made some -- at least some writing
7 assignments.

8 Steve, I have asked you to --

9 DR. HOLTZMAN: I gave them to her already.

10 DR. SHAPIRO: Do you know about any
11 outstanding ones because I want to ask staff to sit down
12 and create a new set and pass them out to us.

13 DR. DUMAS: I want to commend the late hour
14 work last night.

15 (Applause.)

16 DR. CASSELL: Well, I want to point out that
17 if we took away the abbreviations we would add only
18 eight words and people would know that we were talking
19 about an embryo and know that we are talking about stem
20 cells instead of whatever ES stands for.

21 DR. SHAPIRO: I will take that under
22 advisement.

23 DR. CASSELL: I know it will not help.

24 (Simultaneous discussion.)

25 DR. SHAPIRO: David?

1 DR. COX: This is a very minor point but it
2 is for consistency. In some places we make clear we are
3 talking about human and in other places we do not put
4 it, and in the context of the animal stuff I would hate,
5 you know, for that to be ambiguous.

6 DR. SHAPIRO: That is a good point. In
7 fact, in the text we have got a lot of things to do of
8 that nature to make it consistent everywhere in the
9 text.

10 DR. COX: The text is one thing. These
11 recommendations, I think we need to really try and have
12 --

13 DR. SHAPIRO: All right. Let's adjourn for
14 20 minutes.

15 (Whereupon, a break was taken.)

16 DR. SHAPIRO: Okay. For those of us that
17 are still here let's review these recommendations once
18 again. I am sure we have not got it all right but I am
19 determined --

20 DR. DUMAS: Not perfect.

21 DR. SHAPIRO: Not perfect but I am
22 determined --

23 DR. DUMAS: It is all right.

24 DR. SHAPIRO: -- to get enough of it done
25 here so we know what changes to make and pass out to you

1 by e-mail in the next day or so. So let's just go
2 through them.

3 I am going to read them once again and see
4 if they either failed or succeeded in reflecting our
5 conversation this morning.

6 Recommendation one: "Researching involving
7 the derivation and use of human embryonic germ cells
8 from cadaveric fetal tissue should continue to be
9 eligible for federal funding. In addition, relevant
10 statutes and regulations should be amended to make clear
11 that existing ethical safeguards apply to the derivation
12 and use of embryonic germ cells for research purposes."

13 Okay.

14 Recommendation two: "Research involving the
15 derivation and use of human embryonic stem cells from
16 embryos remaining after infertility treatments should be
17 eligible for federal funding. An exception should be
18 made to the present statutory ban on federal funding of
19 embryo research to permit federal agencies to fund
20 research involving the derivation of human embryonic
21 stem cells from this source, under appropriate
22 regulations that include public oversight and review."

23 Three: "Federal agencies should not fund
24 research to generate or use human embryonic stem cells
25 derived from embryos made via IVF..." we will come back

1 to that in a minute. "...solely for research purposes."
2 Let's not worry about IVF. There is a controversy about
3 whether we should acronyms or spell them out and so on.
4 Let's not worry about this right now.

5 MR. CAPRON: We should have a knock down,
6 drag out about that.

7 DR. SHAPIRO: Yes, that is right. After I
8 leave you can -- those who are interested can use the
9 center ring here.

10 DR. GREIDER: Mud wrestling.

11 DR. HOLTZMAN: Do you want to do
12 wordsmithing as we go through this or not?

13 DR. SHAPIRO: Just mark up your copy and
14 give it to Kathi because I do -- if we can all -- I want
15 to save some time, if we can, for the international so I
16 really appreciate any comments and I should make -- ask
17 all the people who have sort of marked up copies of the
18 complete draft to please give them to the staff so as we
19 rewrite text we can incorporate your ideas and so on.

20 Recommendation four: "Federal agencies
21 should not fund research to generate or use human
22 embryonic stem cells derived from embryos made via
23 somatic cell nuclear transfer into oocytes solely for
24 research purposes."

1 It is interesting that we eliminated the
2 words under three and eliminated the acronym under four
3 but we will have to get that all straightened out and
4 complete.

5 Okay.

6 Recommendation five: "Prospective donors of
7 embryos remaining after infertility treatments should
8 receive timely, relevant, and appropriate information to
9 make an informed and voluntary choice regarding
10 disposition of the embryo. Prior to considering the
11 potential research use of the embryos, the prospective
12 donor should have been presented with the options of
13 storing the remaining embryos, donating them to another
14 woman, or discarding them. If the prospective donor
15 chooses to discard the embryos, the options of donating
16 to research may be presented during which presentation
17 the person seeking the donation should:"

18 And here are what follows the should colon.
19 Okay.

20 "Disclose that the embryonic stem cell
21 research is not intended to provide medical benefits to
22 the donor,

23 "Make clear that consenting or refusing will
24 not affect the quality of any future care provided to
25 the prospective donor,

1 "Describe the general research area and the
2 specific research protocol if known,

3 "Disclose the source of funding and expected
4 commercial benefits of the research,

5 "Make clear that embryos used in research
6 will not be transferred to any woman's uterus, and

7 "Make clear that the research will involve
8 the destruction of the embryos."

9 Okay.

10 DR. HOLTZMAN: Harold?

11 DR. SHAPIRO: Yes.

12 DR. HOLTZMAN: I do not know if this is
13 substantive or not. Under the "disclose the source of
14 funding," I think we need an "if known."

15 DR. GREIDER: I think so, too. "Of the
16 research," we can put "if known" at the end.

17 DR. _____: Why wouldn't that be known?

18 DR. HOLTZMAN: Why wouldn't that be known?
19 Because in an IVF clinic I know there may be research
20 protocols downstream, the woman has discarded, I say may
21 I use this in future research. I do not know who the
22 sponsor is going to be and she just consents.

23 DR. SHAPIRO: Kind of banking those --

24 DR. HOLTZMAN: A research bank, that is
25 right.

1 (Simultaneous discussion.)

2 DR. GREIDER: After the research.

3 DR. HOLTZMAN: I would use the same
4 formulation in the previous one with "if known" at the
5 end.

6 DR. GREIDER: Okay.

7 DR. SHAPIRO: Six: "In federally funded
8 research involving embryos remaining after infertility
9 treatments, the donor may not restrict the patient-
10 subjects who will receive the cells derived from the
11 embryos." The commentary is just a place holder to
12 remind us to deal with the commentary on this to draw
13 the parallels we have talked about.

14 Recommendation seven: "Cadaveric fetal
15 tissue and embryos..." we have to choose between
16 "should" and may "...not be bought and sold.

17 I think it was Eric that wanted us to use
18 "may" rather than "should."

19 DR. KRAMER: We want to use whatever is the
20 stronger.

21 DR. CHILDRESS: In statement of principle I
22 think we ought to use "should."

23 (Simultaneous discussion.)

24 DR. COX: We do not have the force of law.

1 DR. SHAPIRO: That is right. That is my own
2 view also since we are not writing laws. Somebody is
3 going to have to write these regulations if they accept
4 these.

5 Recommendation eight, which is now longer
6 and I am sure we are going to have to review, there is a
7 number of issues that I want to bring up here, and we
8 have to probably decide whether to keep eight and nine
9 together again or what, but anyhow let me just read
10 eight as it stands.

11 "The Department of Health and Human Services
12 should establish a National Oversight and Review Panel
13 to ensure that all federally funded research involving
14 the derivation and use of human embryonic stem cells and
15 embryonic germ cells is conducted in conformance with
16 the ethical principles and recommendations provided in
17 this report. The panel should have a broad,
18 multidisciplinary membership, including members of the
19 public. The responsibilities of the Panel shall
20 include:"

21 And here there are a number of bullets,
22 indeed there are about seven of them.

23 "Reviewing protocols for the derivation of
24 human embryonic stem cells and human embryonic germ

1 cells and approving those that meet the requirements
2 described in this report."

3 Two: "Certifying ES/EG cell lines that
4 result from approved protocols."

5 Three: "Maintaining a public registry of
6 approved ES/EG cell lines."

7 Could we use "certify" instead of "approved"
8 there because they just talk about certifying them?
9 Okay. So I am going to put "certify" in there.

10 MR. CAPRON: The public registry has three
11 functions, which is why we use the word "regarding"
12 before. It has the function of "approve protocols, list
13 of certified cell lines, and data bank." So if we say
14 "maintaining a public registry of approved --" it is not
15 an accurate description. What we said before it was
16 revised was maintaining a public registry regarding ES
17 and EG cells, see recommendation --

18 DR. SHAPIRO: I did not really like that. I
19 mean, I understand what you said. That seemed to me --
20 I could understand what it meant, a registry regarding
21 ES/EG cells. I just could not understand what it meant.
22 I understand you can go to recommendation nine but I
23 wanted something in there which had something more
24 informative in it than just regarding ES.

1 MR. CAPRON: I mean, if we had a name for
2 it, if it shall maintain the public registry of ES/EG
3 cell research, I mean that would --

4 DR. HOLTZMAN: Could we say, to get both of
5 your points, "maintaining a public registry of certified
6 ES/EG cell lines and related information, see
7 recommendation nine."?

8 MR. CAPRON: Sure. But yesterday people
9 said it was just as important to have the registry be of
10 approved protocols and --

11 (Simultaneous discussion.)

12 DR. HOLTZMAN: But that will be sculled out
13 in --

14 DR. SHAPIRO: Jim, and then Diane.

15 DR. CHILDRESS: It seems to me to be useful
16 to have here following the previous bullet about
17 certification an indication that they will be maintained
18 as a public registry the certified cell lines so we just
19 might put "maintaining a record of certified ES/EG cell
20 lines in the public registry," and see the
21 recommendation for the other functions.

22 DR. SHAPIRO: Eric, and then Diane.

23 DR. MESLIN: What if you inverted the second
24 and third bullet since following Alex's logic the public

1 registry is the thing you are describing and then you
2 could list the bullets that follow.

3 DR. SHAPIRO: You are describing the
4 responsibilities of the panel.

5 (Simultaneous discussion.)

6 MR. CAPRON: And all I am saying is what if
7 we gave it a name for the moment and just said the
8 public registry of ES/EG cell research or human ES/EG
9 cell research as though that were the name of it, see
10 recommendation nine, and that is what recommendation
11 nine deals with. I just do not want to over emphasize
12 one function over another.

13 DR. DUMAS: I am trying to understand what
14 the problem is.

15 DR. SHAPIRO: Okay, Diane?

16 DR. SCOTT-JONES: We could simply say in the
17 third bullet "maintaining a public registry of approved
18 protocols and certified ES/EG cell lines, see
19 recommendation nine."

20 DR. SHAPIRO: And the bank of --

21 DR. SCOTT-JONES: The data bank is now in
22 eight instead of in nine. The database is now in eight
23 instead of nine.

24 DR. SHAPIRO: It seems to me that we can --
25 I would like to use the word "certified" here in this

1 bullet and I think somebody mentioned "and related
2 information." That may be broad enough to include both
3 the protocols and everything else that would be in here.
4 So let's just use that here. I do not --

5 DR. DUMAS: It is certifying cell lines that
6 result from approved protocols and --

7 MR. CAPRON: It is the next one.
8 "Maintaining a public registry of certified ES/EG cell
9 lines and related information."

10 DR. SHAPIRO: Jim had a slightly --

11 DR. CHILDRESS: I think Steve's -- the
12 direction we are going in, I think it would be Steve's
13 recommendation, the wording.

14 DR. HOLTZMAN: Yes, that is what Harold just
15 did.

16 DR. SHAPIRO: So would you say it again,
17 Steve?

18 DR. HOLTZMAN: "Maintaining a public
19 registry of certified ES/EG cell lines and related
20 information, see recommendation nine." We are hanging
21 up on the fact that registry we want to --

22 DR. SHAPIRO: Let's go through this. Let's
23 get on with this and we may come to --

24 MR. CAPRON: It works.

25 DR. HOLTZMAN: Yes, it works.

1 DR. SHAPIRO: Fourth here: "Collecting from
2 sponsoring federal agencies descriptions of all
3 protocols that use or derive such cells with any
4 available information concerning research outcomes,
5 including published papers. The private sector is
6 encouraged to submit similar, nonproprietary data."

7 Five or the fifth bullet: "Establishing a
8 database which should be linked to the public registry
9 to be used by the panel to track the history and
10 ultimate use of certified cell lines for the purpose of
11 policy development."

12 The next bullet: "Establishing requirements
13 for and provide guidance to sponsoring agencies on the
14 social and ethical issues that should be considered in
15 the review of research protocols that derive or use such
16 cells."

17 The last bullet here: "Providing an annual
18 report to the DHHS Secretary which would include an
19 assessment of the current state of the science for both
20 derivation and use of embryonic stem cells and embryonic
21 germ cells, a review of recent developments in the broad
22 category of human stem cell research, a summary of any
23 emerging ethical or social concerns associated with this
24 research, and a review of the adequacy and currency of
25 the recommendations addressed in this report."

1 MR. CAPRON: May I make a comment?

2 DR. SHAPIRO: Yes.

3 MR. CAPRON: I think that the way this has
4 been revised, which is fine, has obliterated the need
5 for recommendation nine and that we ought to take any
6 thoughts about nine not fully encompassed and just put
7 them in here so that we are going to say we are going to
8 maintain a public registry.

9 DR. DUMAS: I agree.

10 DR. SHAPIRO: I agree with that. The way
11 this has worked out I think that is right so we will put
12 nine and ten and merge those two points that are left in
13 there, two bullets which are really small bullets, will
14 be incorporated.

15 MR. CAPRON: I mean, actually the second
16 bullet is already in.

17 DR. DUMAS: This one, too. The second is
18 two.

19 MR. CAPRON: Why don't we simply say
20 maintaining a public registry of approved ES/EG
21 protocols and certified cell lines because that is now
22 what it does.

23 DR. SCOTT-JONES: I suggested that
24 precisely.

25 (Simultaneous discussion.)

1 MR. CAPRON: Diane, I did not --

2 DR. SCOTT-JONES: You just did not know you
3 were going getting around to --

4 MR. CAPRON: I thought that we had said the
5 registry has three components. A list of certified cell
6 lines, record of the approved protocols, and a database.
7 As it is written here now, which is fine, the database
8 is something separate, which is related or linked to.

9 DR. SCOTT-JONES: Right.

10 DR. SHAPIRO: So we --

11 DR. SCOTT-JONES: That is my point.

12 DR. SHAPIRO: So we can incorporate that in.

13 DR. HOLTZMAN: So point three is now going
14 to read "maintaining a public registry of approved
15 protocols certified --"

16 DR. SHAPIRO: "Certified ES cell lines."

17 MR. CAPRON: And that is in.

18 DR. SCOTT-JONES: That is the end.

19 MR. CAPRON: And the database is covered by
20 the other --

21 DR. SHAPIRO: All right. Then, Diane, thank
22 you very much. We wish we understood -- got to you
23 earlier and faster. We apologize.

24 DR. DUMAS: You got it.

1 DR. SHAPIRO: Okay. We will use the numbers
2 that are still on here although obviously it is going to
3 be -- have to be renumbered.

4 MR. CAPRON: One thing which would come
5 closer to making clear what we mean is to put the word
6 "general" before "public." "Including members of the
7 general public."

8 DR. SHAPIRO: That is a good point, I think.

9 MR. CAPRON: That is, I think, a phraseology
10 that is used to suggest the --

11 DR. SHAPIRO: We will do that. Okay. Let's
12 now go to what on this is recommendation ten. As I said
13 all these will change a little bit. This is a change
14 which I made for purposes of clarifying our discussion.
15 We need to absolutely discuss this.

16 We had some discussion before. First of
17 all, ten is broken -- what was one recommendation is now
18 broken into two. I was trying to think through the
19 issues that we raised surrounding Bette's comment that
20 we need a local IRB review, are we going to fuse this
21 with human subjects review? We are uncertain about B,
22 subsection B applies and so on.

23 So this is one possibility here and you may
24 or may not like it but I recognize it is a change and so

1 let's just -- let me read it and then we will discuss
2 the substance of it.

3 Protocols involving the derivation of
4 embryonic stem cells and embryonic germ cells must be
5 reviewed and approved by an appropriately constituted
6 and convened local review body prior to consideration by
7 the National Oversight and Review -- well, that is not
8 quite right either anymore because -- it is. It is.
9 Excuse me. It is. It is derivation.

10 DR. HOLTZMAN: It should be "should" instead
11 of "must."

12 DR. SHAPIRO: I beg your pardon. Oh,
13 "should," yes.

14 MR. CAPRON: We had "must" before.

15 DR. SHAPIRO: Let's discuss -- first of all,
16 before we get to "should" or "must" let's discuss the
17 issue here. Now the issue is -- and the reason I wrote
18 -- asked that it be written this way is written this way
19 it has the advantage of focusing on the fact that you
20 require local review. That is the substance of it. And
21 people would be free to use their IRB's or, if not, some
22 other appropriately constituted group. That is a
23 possibility.

24 I am really quite committed to the local
25 review and I could easily myself -- although this is not

1 a big matter of principle, I just want to put the matter
2 before us as to whether we want to stick with the IRB's
3 or not and I, frankly, do not have -- I am not going to
4 fight a lot for that.

5 David, Laurie, and then Diane.

6 DR. COX: So with respect to the last
7 question you asked I like having it ambiguous and say
8 local review and let people do what they want in that
9 context. I would say, though, that something else has
10 to be added to this because the first question I would
11 ask if I was a local person is to what end do you want
12 local review and so to have in there that you want local
13 review to ensure that these follow the standards set by
14 the national body. What are you trying to be sure of?

15 DR. SHAPIRO: So then it comes in the
16 recommendation. That is the recommendation right after
17 that. That used to be two. It used to be a single
18 recommendation. We have broken it in two. But if you
19 look at eleven -- we will come back to the local review
20 situation. It does say that the -- this body should
21 ensure compliance, which is exactly, I think, the point
22 you were making.

23 Laurie?

24 DR. FLYNN: I guess I am not understanding
25 why we would not want to go ahead and name the IRB. We

1 know what IRB's are. We know that kind of requirements
2 there are for the constitution and structure and ongoing
3 work of IRB's. I worry that an appropriately
4 constituted and convened local review body may not
5 ensure the sort of transparency for this process that I
6 think is critical. So I am very much in favor.
7 Understanding the concerns but very much in favor of
8 charging this to the IRB and all -- with all of its
9 attendant pluses and problems.

10 DR. DUMAS: I am, too.

11 DR. SHAPIRO: Okay. Diane?

12 DR. SCOTT-JONES: I am also not clear on why
13 it would be inappropriate to say the IRB and I think
14 someone reading this might think that the intent is to
15 suggest that there be another local review body instead
16 of the IRB so I suppose I would be -- I did not have
17 problems with saying IRB. I do not know if it would
18 help whatever other concerns there were to say reviewed
19 and approved by an IRB or other appropriately
20 constituted and convened local review body. I am just
21 not clear on what fellow commissioners saw as the
22 problems.

23 DR. SHAPIRO: Back up and let's see what
24 other views are. Bette and then Alex, and then Jim.

1 DR. KRAMER: One possibility, of course, is
2 that a particular institution might have a body within a
3 specific department that they would consider would be an
4 appropriate review body. I would request that the
5 language of the recommendation itself not specify IRB,
6 whether it does or it does not, that in the explanatory
7 text that whenever we -- if we make reference to the IRB
8 that we include words like "despite the fact that this
9 is not human subjects." I mean, that we make clear that
10 we do not -- just to clarify that point.

11 DR. SHAPIRO: Alex?

12 MR. CAPRON: Well, if we were to do
13 something of the sort that Bette wants or if we are
14 going to use the language that you have suggested, I
15 think we have to mount a full defense of why we want to
16 waive or change the present human subjects regulations.
17 Like it or not, subpart B of those includes embryo
18 research and this -- the derivation process using
19 embryos is embryo research so we would have to explain
20 why having the Department of Obstetrics or the
21 Department of Embryology or something else for all the
22 reasons Laurie just cited, a group that we do not know
23 how it is going to be "appropriately" constituted is
24 preferable to an established group that under present
25 regulations does not have -- I do not -- I have never

1 heard any discussion in this commission of what that
2 language would be like. So I am with Diane in thinking
3 that it should be -- and Laurie in thinking we should
4 say IRB.

5 DR. SHAPIRO: Carol?

6 DR. GREIDER: I was going to ask Steve to
7 reiterate what he had mentioned about the issues of
8 human subjects and the current --

9 DR. HOLTZMAN: Well, as Alex has pointed out
10 to me and showed me the materials that have been written
11 and some papers, CFR -- the CFR itself, subpart B is at
12 best ambiguous and it says in vitro fertilization is
13 controlled. There is a subsequent regulation issued by
14 DHHS in '94 which says that includes research on the
15 embryo. Okay. Which is what Alex is pointing to when
16 he says, "The reg says." Alex is not saying that
17 subpart B on its face says that. It is rather that DHHS
18 has interpreted it and apparently has the legal
19 authority to interpret.

20 DR. SCOTT-JONES: Yes.

21 (Simultaneous discussion.)

22 DR. HOLTZMAN: We are without a license
23 here. Okay. Now --

24 MR. CAPRON: They have such a license.

1 DR. HOLTZMAN: Okay. One argument -- some
2 of us believe that it is -- there are more global
3 reasons for why you would not want to be seen as
4 endorsing that interpretation of the reg, which is I
5 think maybe what Bette is pointing to in terms of saying
6 we do not want to say that that thing is a human
7 subject. I think Pat was making that point as well.

8 We also in various parts of our
9 deliberations encourage the private sector to adopt the
10 Common Rule. All right. It is not clear to me that we
11 would need to go quite so far as to adopt all of the
12 interpretations of DHHS of 45CFR46 such as this
13 particular interpretation. So that would be a sort of
14 more 10,000 foot kind of argument about being careful.
15 I agree with Alex that I do not think this is the place
16 to mount an opposition to the DHHS interpretation and I
17 thought what we were trying to do here was to soft pedal
18 that we think review is important, okay, locally and
19 just reopens -- we are encouraging this kind of review
20 as well by nonfederally funded.

21 DR. SHAPIRO: Jim?

22 DR. CHILDRESS: I have little to add to what
23 Steve just said. I think that captures, as I understand
24 it, the spirit of Bette's concerns and I would agree
25 with those and I have some other reasons that were

1 connected with the kind of discussion we had yesterday
2 about what gets brought into play if one brings in the
3 whole apparatus of the research involving human subjects
4 area. I think there are real problems in doing that in
5 this area.

6 I prefer the soft pedalling approach to use
7 Steve's language and I think in the text we can talk
8 about the kinds of options here, the kinds of
9 interpretations that have evolved, and leave it open for
10 that. The principle of local review is an important
11 one, I think. And I say I think because I am not as
12 convinced as Harold is that it is necessary here.

13 If we look in recommendation eleven we are,
14 in effect, setting up an assurance of compliance and I
15 am not sure that enforcement mechanism is what is needed
16 here given the role of the National Oversight and Review
17 Panel, which again reads very different from what we
18 would have in the ordinary -- if you go back to the
19 human subjects model -- the ordinary human subjects
20 model, okay, where you have the national body doing the
21 kind of review that we are talking about. So I am not
22 sure it is necessary but if it is necessary or at least
23 appropriate I would prefer to see it stated as broadly
24 as possible with the text talking about the kinds of

1 options and arguments involved and then see what
2 happens.

3 DR. SHAPIRO: Alex?

4 MR. CAPRON: Do I understand that you are
5 endorsing then a compromise in which the text would say,
6 as it does here, local review. By "local" we mean
7 institutional or -- I think we should not use the word
8 "local." It is not like the City of Philadelphia is
9 going to set up a review.

10 DR. SHAPIRO: I agree with that.

11 MR. CAPRON: The principle argument -- the
12 principle argument it seems to me for using local review
13 is the one that Steve reminded us of yesterday that some
14 of the companies that have never done any human subject
15 work may not have an IRB and it might be that HHS in
16 implementing this would say that as an alternative to
17 having an IRB it could have an embryonic stem cell
18 review -- institutional review committee that would just
19 do that and I think that -- in the text I would be
20 comfortable with a commentary that said that it is now
21 understood to be encompassed within the regs and not
22 take a stand on that so to say for institutions that
23 have IRB's the expectation is that they would cover it.
24 It may be that institutions that do not could be covered

1 by specially crafted regulations and leave it at that.
2 If that is what the compromise is I would vote for it.

3 DR. SHAPIRO: Well, as I am listening as
4 carefully as I can to the commentary here, I think in my
5 own mind the strongest argument for the IRB is it is
6 known, its composition is known, the community knows how
7 to access it and how to relate to it and so on. Those
8 are very strong arguments. Laurie really was
9 underlining those.

10 And talking just about my own idea of having
11 a convened institutional -- some appropriately convened
12 institutional review board, it does not have any of
13 those things unless we start spelling them out and so
14 on. And I think that is a strong argument, I think.

15 The other argument is also strong,
16 unfortunately. Namely we want to keep at arm's length
17 to the extent possible from the human subjects review
18 and so I think our challenge is to craft a
19 recommendation with commentary that reflects both of
20 these points of view and it is all a question of what we
21 want to say in the recommendation and what you balance
22 that with in the commentary.

23 I guess on balance I think we ought to at
24 the very least have the IRB's in the recommendation
25 itself and perhaps try to look at alternatives in the

1 commentary such as what the private sector might use and
2 so on even though in my own mind it is a close call.

3 Bette?

4 DR. KRAMER: Why can't we go the other way?
5 When IRB's are intimately associated with the governance
6 of human subject regulations?

7 DR. SHAPIRO: I understand that is the other
8 argument and that is a good argument. That is why I say
9 it is a close call. I mean, I do not have a killer
10 argument against it.

11 DR. KRAMER: What about both? IRB's or
12 other institutional --

13 DR. CHILDRESS: How about an appropriately
14 constituted and convened local review body such as an
15 IRB prior to consideration?

16 DR. HOLTZMAN: Well, I just -- in the second
17 line "approved by an IRB or other appropriately..."

18 DR. SHAPIRO: Yes.

19 DR. FLYNN: But "appropriately" is not
20 defined.

21 DR. HOLTZMAN: But I think that when you go
22 into the text you will cite all the arguments you made
23 about -- first off, you will cite the facts of the
24 interpretations, all right, and then under current DHHS
25 you have to if you are federally funded. All right. We

1 will then cite the prose that you said for the IRB's is
2 a known entity, you will cite the other side of it that
3 says that many of the issues that seem to be in play for
4 an IRB about informed consent are not to the same extent
5 in play here because you are dealing with a different
6 kind of research --

7 MR. CAPRON: Steve, you have got all the
8 issues of the donor and those are covered here under
9 46.206. You have to have the consent of the individual.
10 They cannot be -- in other words, there is a lot here
11 that is more relevant than you are suggesting.

12 DR. GREIDER: That is right.

13 DR. SHAPIRO: Diane, and then Rhetaugh?

14 DR. SCOTT-JONES: I would suggest that we
15 say "by an IRB or other appropriately constituted and
16 convened local institutional review body" to allow both
17 of those to be there. I agree with Alex and with Laurie
18 that there is already much that an IRB might have in
19 place that would make them appropriate.

20 DR. SHAPIRO: Rhetaugh?

21 DR. DUMAS: I am not sure that we should add
22 the option of another appropriate body. I do not think
23 it is necessary because there are some institutions that
24 might have more than one IRB. I think it is the concept

1 that we are trying to propose here and I would strongly
2 argue that we keep the IRB in.

3 There was a statement on a previous
4 iteration of this that said that regulations should be
5 revised accordingly to take care of the recommendations
6 that we have in here.

7 DR. GREIDER: I come down in favor of having
8 both IRB and local review board because although I agree
9 with the idea that there are -- IRB's already exist and
10 we know what they are, as Steve pointed out, we are
11 trying to encourage the privately funded sector to also
12 voluntarily submit, and they might not have an IRB.

13 DR. DUMAS: They can establish one. There
14 is no reason why they cannot establish one.

15 DR. GREIDER: That puts you under a whole
16 different set of regs that we do not necessarily have to
17 invoke here and so if you have both IRB and other
18 appropriate review body I think it covers both of those
19 areas.

20 DR. SHAPIRO: David?

21 DR. COX: I support that as a compromise
22 position because I think that --

23 DR. SHAPIRO: Well, obviously if we -- I am
24 going to ask in a moment how many commissioners would
25 like the recommendation itself to read something like

1 "approved by an IRB other --" how many of you would like
2 that? Obviously the commentary is going to be quite
3 important here to look at both the strengths of the IRB
4 review, the uncertainty of the connection between this
5 and so on.

6 DR. DUMAS: May I ask one question before we
7 vote?

8 DR. SHAPIRO: Yes.

9 DR. DUMAS: Is the intent of having the
10 other local review body to provide this mechanism for
11 the private sector? Is that the intent?

12 MR. CAPRON: To me it would be having an
13 institutional --

14 DR. GREIDER: To some extent.

15 DR. FLYNN: I think it is more than that and
16 that is why I am concerned about it.

17 (Simultaneous discussion.)

18 DR. SHAPIRO: It is more than that so that
19 the University of Michigan, for instance, could --

20 DR. DUMAS: Have another body --

21 DR. SHAPIRO: -- constitute another body.

22 (Simultaneous discussion.)

23 MR. CAPRON: Not without a change in the
24 present regulations they could not. I mean, I think
25 part of what we are saying to HHS is maybe your

1 interpretation of that could be revisited and if you did
2 you might say this is not a human subject thing, as
3 Bette is saying, it ought to have a body constituted
4 like an IRB specifically for this purpose, however,
5 because most of what they are doing, I would agree with
6 people, is not like what an IRB does when it is dealing
7 with a living individual for whom consent is obtained,
8 et cetera, et cetera.

9 DR. HOLTZMAN: I think it is useful to stop
10 and say what are we thinking of as a case in our mind
11 here and what would this panel be doing. All right. So
12 take the case where the embryo is sitting in the bank,
13 all right, and now someone is proposing a protocol to
14 derive ES cells from it.

15 I think what this panel is largely doing is
16 looking back and asking the question was the woman's
17 consent to use the embryo in research, did it meet the
18 following standards: No coercion, not paid, et cetera,
19 et cetera. And I certainly agree with Alex there is
20 that thing that is like human subjects research in terms
21 of issues of consent -- the fundamental issues of
22 consent.

23 Now people who know this stuff much better
24 than I do, I do not know, but doesn't an IRB do
25 something more than that when we are looking at a

1 protocol with human subjects? Right? It then looks at
2 the actual protocol where there is an intervention of
3 the subject and asks questions about safety, right, the
4 value of the protocol relative to the safety or
5 potential harm that the person is going to be subjected
6 to, et cetera, et cetera, and to that extent there is an
7 element of an evaluation of the scientific validity of
8 the study because you cannot do the cost benefit or harm
9 calculation without that.

10 None of that seems in play here, all right,
11 in the same way. Are we asking the IRB to make the
12 adjudication of such things as the culture conditions
13 that Dr. Greider has provided for here are likely or not
14 to generate an ES cell, therefore, all right, we do or
15 do not think it is a good idea. That is where you start
16 to get into it looks like a different kind of body at
17 least from my perspective.

18 DR. SHAPIRO: Diane?

19 DR. SCOTT-JONES: I think some of what Steve
20 just said applies to any kind of research that an IRB
21 might review. They are not always competent to review
22 the science of it and in that case most IRB's call in a
23 person to review it for that particular kind of
24 research. So I do not think that is a compelling

1 argument in this instance. It is not unique to this.

2 It would apply to all IRB work.

3 DR. SHAPIRO: Let me see what our options
4 are in front of us. I think recommendation ten ought to
5 specifically not the IRB as a minimum. The question is
6 whether we -- option A, if I could describe it this way,
7 will be a focus on the IRB. Recommendation ten having
8 only the IRB. And then a commentary outlining other
9 kinds of possibilities for people to think about. Maybe
10 they read this recommendation and they might think
11 through another possibility.

12 So one -- that is option A, which would have
13 recommendation ten refer only to the IRB and then the
14 commentary saying, you know, there are other
15 alternatives. People who are really interested in this
16 may want to pursue them and so on and so on but we do
17 not have any recommendation. That would be option A.

18 Option B would be the one we have been just
19 discussing, which would say something like "approved by
20 an IRB or other " leaving the option open in the
21 recommendation. And then a commentary following
22 outlining the pluses and minuses of these various
23 approaches.

24 It seems to me those are two things. So the
25 IRB has got to be in there one way or another. But

1 option A would mention only the IRB and everything else
2 in commentary. Okay. So let's just see how many of us
3 prefer that option because if we do not go to option A,
4 we will go to option B.

5 Laurie?

6 DR. FLYNN: I prefer that option.

7 DR. SHAPIRO: Okay. All right.

8 (Simultaneous discussion.)

9 DR. SHAPIRO: Now is everyone clear what I
10 am asking? Okay. So let me see how many commissioners
11 prefer option A, which is --

12 (A show of hands.)

13 DR. SHAPIRO: Okay. How many prefer option
14 B?

15 (A show of hands.)

16 DR. SHAPIRO: Okay. Option B will be it.
17 The commentary will contain the appropriate -- I will
18 not try to summarize that again.

19 All right. Let's go on to recommendation
20 eleven, which will obviously have to reflect -- I mean,
21 really as it is stated here but obviously it will have
22 to reflect what we have just decide so it might be
23 something like "The Institutional Review Body..." rather
24 than the local and so on "...described in recommendation
25 ten should ensure compliance with any requirements

1 established by the panel, including confirming that
2 institutions in the United States or abroad that supply
3 embryos or fetuses have obtained them in accordance with
4 the requirements established by the panel."

5 Bette?

6 DR. KRAMER: Do we mean fetuses or do we
7 mean fetal tissue? I guess it does not matter.

8 DR. COX: You do not want to go there,
9 Bette.

10 DR. KRAMER: No? Okay.

11 DR. SHAPIRO: David, what is your --

12 DR. COX: Because if the fetus -- if it is
13 fetal tissue and embryos, okay, then embryos are living.

14 DR. KRAMER: If it is -- say what? If it is
15 what?

16 DR. COX: If it is embryos or fetal tissue
17 then it is fetal tissue but not embryo tissue.

18 DR. KRAMER: I think what I am confused
19 about is does -- do the words "embryos or fetuses"
20 relate to the two different known techniques of deriving
21 the cells?

22 DR. SHAPIRO: Known sources.

23 DR. KRAMER: Known sources. Right.

24 DR. SHAPIRO: Yes.

1 DR. KRAMER: But is the source called
2 "fetus" or is it called "fetal tissue?"

3 DR. SHAPIRO: Cadaveric fetal tissue is what
4 we have been using, I guess, in a lot of these.

5 DR. KRAMER: Right. But shouldn't that --
6 (Simultaneous discussion.)

7 DR. KRAMER: -- shouldn't this correspond to
8 that?

9 DR. SHAPIRO: You are right about that.

10 DR. DUMAS: Are we arriving at different
11 approaches for the review for this type of tissue than
12 for other tissue than we put in our other report? The
13 use of human --

14 DR. SHAPIRO: Oh, yes.

15 DR. DUMAS: -- tissue.

16 DR. SHAPIRO: We certainly are.

17 Thank you very much for that. Excuse me but
18 I just want to make sure I get this written in.

19 DR. HOLTZMAN: Can we change institutions to
20 individuals and organizations?

21 DR. SHAPIRO: To --

22 DR. HOLTZMAN: On the third line.

23 DR. SHAPIRO: Yes. You want to change
24 "institutions" to "individuals."

25 DR. HOLTZMAN: Or other organizations.

1 DR. GREIDER: May I just note that in
2 rewriting all of the commentary that is going to go in
3 chapter ten it may be that -- I mean, in recommendation
4 ten, it may be that recommendation eleven would actually
5 be part of recommendation ten. I hate to bring this
6 back up again but I will just leave it to the staff. It
7 does not necessarily follow to me that there have to be
8 depending on what the commentary says.

9 DR. SHAPIRO: I agree.

10 Okay. We will now go to recommendation
11 twelve. "When reviewing research protocols using
12 embryonic stem cells and embryonic germ cells all
13 federal agencies should ensure that their review
14 processes comply with any requirements established by
15 the National Oversight and Review Panel (see
16 recommendation eight) paying particular attention to the
17 adequacy of the justification for using such cell
18 lines."

19 This is, I think, unchanged from the
20 previous one.

21 Okay. Let's go on to recommendation
22 thirteen. "For privately funded research on ES/EG cells
23 that would otherwise be eligible for federal funding
24 NBAC encourages researchers and sponsors voluntarily to
25 adopt the recommendations of this report that apply to

1 such research." It should be a period after that.
2 "This includes submitting protocols to the National
3 Oversight and Review Panel for the derivation of
4 embryonic stem cells and embryonic germ cells for review
5 and for the certification of cell lines."

6 MR. CAPRON: "Such cell lines."

7 DR. SHAPIRO: Okay.

8 Recommendation fourteen: "For research
9 projects that involve deriving --" Yes?

10 DR. HOLTZMAN: Is the "for" phrase --

11 DR. SHAPIRO: Yes.

12 DR. HOLTZMAN: -- there in the wrong place?
13 Move the "National Oversight and Review Panel" to after
14 the word "cells" in the fourth line.

15 DR. SHAPIRO: Right.

16 DR. HOLTZMAN: This includes submitting
17 protocols for the derivation of --

18 DR. SHAPIRO: That is right. Thank you very
19 much. Anything else on that one?

20 DR. HOLTZMAN: Sorry.

21 DR. SHAPIRO: No, that is entirely --

22 (Simultaneous discussion.)

23 DR. SHAPIRO: Fourteen: "For research
24 projects that involve deriving ES/EG cells that would not

1 be eligible for federal funding under recommendations
2 three and four in this report NBAC recommends that:

3 (a) professional societies and trade
4 associations develop and promulgate ethical safeguards
5 and standards consistent with the principles underlying
6 this report;

7 (b) privately funded researchers conducting
8 this research and their sponsors should voluntarily
9 comply with these safeguards and standards."

10 MR. CAPRON: We left out the phrase
11 "privately funded" at the beginning.

12 (Simultaneous discussion.)

13 MR. CAPRON: Or is it not necessary to say
14 that? I do not know.

15 MR. CAPRON: Maybe we do not need this.

16 DR. DUMAS: It is not necessary.

17 DR. SHAPIRO: Let's see what we have in the
18 previous one.

19 MR. CAPRON: The previous one says
20 "privately funded" because it just did not make sense to
21 say "otherwise -- that would otherwise be eligible."

22 DR. SHAPIRO: Carol?

23 DR. GREIDER: In both recommendations
24 thirteen and fourteen we are basically referring to
25 research embryos.

1 DR. SHAPIRO: Not in thirteen.

2 MR. CAPRON: No, thirteen is the --

3 DR. GREIDER: I am sorry. Fourteen.

4 DR. SHAPIRO: That is right.

5 MR. CAPRON: That is right.

6 (Simultaneous discussion.)

7 DR. SHAPIRO: Recommendation three and four
8 refer to research embryos.

9 DR. GREIDER: So should we just say that
10 rather than referring back to recommendations three and
11 four, you know, the not eligible for federal funding
12 under recommendation three and four. Can't you just say
13 research embryos?

14 DR. HOLTZMAN: The discussion over lunch
15 yesterday, which we generated this, wrestled with the
16 following problem: There is virtue in the clarity in
17 thirteen of saying research involving -- privately
18 sponsored involving excess or spare embryos and in
19 fourteen saying for research involving research purpose
20 embryos.

21 Alex made the argument that what is subject
22 -- what is and is not available for funding may change
23 over time and that, therefore, we wanted to keep it more
24 generic.

1 I personally, having slept on it overnight,
2 would advocate in trying to address Alex's issue about
3 making the recommendations clearer because I find myself
4 again thinking about the people who read these things
5 only reading the bolded text, all right, and having to
6 leave to them to infer that recs three and four are
7 research purpose embryos.

8 So I -- it says the same thing. The
9 question is how --

10 (Simultaneous discussion.)

11 DR. HOLTZMAN: -- communication function.
12 Is that a fair statement of the argument, Alex, or the
13 thought process?

14 MR. CAPRON: Right. And three and four used
15 to have the language which we have cut out throughout
16 all of this, "at this time" on the basis that everything
17 is "at this time."

18 DR. DUMAS: At this time, right.

19 DR. HOLTZMAN: Yes.

20 MR. CAPRON: But that is the basis that at
21 some point under three and four we recognize the
22 possibility that the national body would recommend and
23 HHS would accept or Congress would accept other --

24 DR. GREIDER: I understand.

1 MR. CAPRON: And I do not think within
2 bolded text -- I mean, a cross reference to another
3 recommendation in the same chapter or if these
4 recommendations are printed in some point in the report
5 just as recommendations without commentary is not hard
6 to cross reference.

7 DR. HANNA: I would just suggest that you do
8 try and find some way of clarifying it because the
9 phrase "that would otherwise be eligible for federal
10 funding" can mean all kinds of things. It can mean that
11 they did not complete their budget form on their R01
12 sheet properly or they did not -- you know, there are a
13 whole lot of reasons why something would not be eligible
14 for federal funding.

15 MR. CAPRON: That was why, Kathi, we put the
16 phrase "not eligible" under recommendations three and
17 four, precisely because that argument was also raised
18 that, you know --

19 DR. DUMAS: But what is the objection to
20 just spelling it out?

21 MR. CAPRON: Then you just lock yourself in.
22 Under recommendation --

23 (Simultaneous discussion.)

24 MR. CAPRON: -- embryos created for research
25 purposes --

1 (Simultaneous discussion.)

2 MR. CAPRON: -- conversely saying would not
3 be eligible because they involve embryos created for
4 research purposes, see recommendation number four.

5 DR. SHAPIRO: That actually is clearer.

6 (Simultaneous discussion.)

7 DR. DUMAS: What you are really saying is
8 that for research protocols to develop embryos for
9 research purposes, right, that is what fourteen refers
10 to, then I think it ought to be said. And I do not
11 think that that locks us in any more than any other
12 recommendations.

13 DR. COX: Recommendations three and four are
14 locking us in anyway and so --

15 DR. DUMAS: That is right. So why should
16 somebody have to go all the way back to three and four?

17 DR. SHAPIRO: If you say the following:
18 "For privately funded research projects that involve
19 deriving ES --" excuse me. "Involving deriving ES/EG
20 cells from embryos created solely for research purposes
21 and that would not be eligible for federal funding under
22 recommendations three and four in this report NBAC
23 recommendations that..."

24 DR. HOLTZMAN: Yes, that is great.

1 DR. GREIDER: That is clear but I do not
2 think EG belongs in there.

3 DR. HOLTZMAN: EG should be deleted.

4 DR. SHAPIRO: That is correct. Excuse me.
5 That is right.

6 DR. HOLTZMAN: And then could we make the
7 commensurate change in thirteen to make clear what we
8 are referring to, spare embryos? They would be eligible
9 because they are from spare embryos or cadaveric fetal
10 tissue.

11 DR. SHAPIRO: Okay. We will make that
12 parallel.

13 Yes, Alex?

14 MR. CAPRON: Is the "because" clause there?

15 DR. HOLTZMAN: I am not trying to wordsmith
16 it but I think --

17 MR. CAPRON: No, I mean, my concern is they
18 are not eligible because they involve that as it were.
19 It is --

20 (Simultaneous discussion.)

21 MR. CAPRON: They are eligible to that
22 extent, I mean, and then we get into the reverse of the
23 point Kathi made, which is they are eligible if they
24 involve that and if they meet a whole bunch of other --

1 DR. COX: That is exactly the point that we
2 want to make so in that situation you do not want to
3 just have it be that because they are spare embryos that
4 is a necessary but not sufficient category.

5 DR. HANNA: Spare embryos and/or --

6 DR. COX: But they are also --

7 (Simultaneous discussion.)

8 DR. COX: That includes everything. It is
9 required.

10 MR. CAPRON: On this one, Steve, I actually
11 think the economy of just saying would otherwise be
12 eligible for federal funding is sufficient.

13 DR. DUMAS: Are you talking about
14 recommendation fourteen now?

15 DR. SHAPIRO: Thirteen.

16 DR. DUMAS: Thirteen.

17 MR. CAPRON: That one then covers the
18 situation in the future if other categories of ES/EG
19 cells are now permitted and eligible for federal
20 funding.

21 DR. SHAPIRO: Okay. We will work out the
22 language on these two. I think we understand what we
23 want to say here. It has been helpful to clarify.

1 Recommendation fifteen I have not even
2 looked at and it looks to me like it has the words in it
3 I did not like before.

4 (Simultaneous discussion.)

5 DR. COX: One thing, Harold, the word
6 "otherwise" should not be there. It is eligible for
7 federal funding. It happens to be privately funded. So
8 --

9 DR. SHAPIRO: Where is this?

10 DR. COX: Recommendation fifteen. "For
11 privately funded research on ES/EG cells..." and it
12 could be both "...that would be eligible for private
13 funding."

14 DR. SHAPIRO: It actually reads better that
15 way.

16 MR. CAPRON: Actually much better that way,
17 David.

18 DR. SHAPIRO: All right. So I apologize.
19 We are going to -- I do not have anything to say about
20 fifteen but I have to say I do not like the word
21 "sunset" but let's see what the comments are.

22 Diane?

23 DR. SCOTT-JONES: I would suggest breaking
24 the idea into two sentences and say something like the
25 National Oversight and Review Panel and the public

1 registry described in recommendations eight and nine
2 should be discontinued after five years, period. The
3 DHHS Secretary should arrange an independent evaluation
4 of the process and substance of their activities to
5 determine whether these mechanisms have adequately
6 fulfilled their functions and to determine whether they
7 should be continued to be established.

8 DR. SHAPIRO: I have a different kind of
9 suggestion and see how you like that, which would be a
10 shorter suggestion, I think, in my mind accomplishes it
11 all and most of all gets rid of the "sunset" clause.

12 The National Oversight and Review Panel and
13 public registry described in recommendations eight and
14 nine should after a period of five years be
15 independently evaluated. We do not have to sunset it
16 ourselves. It can be independently evaluated and people
17 can make whatever decisions they want.

18 DR. SCOTT-JONES: That is fine.

19 MR. CAPRON: The sunset idea is a little bit
20 hold the feet -- everybody's feet to the -- be serious
21 that you have to have reached a positive -- but which is
22 -- but we do not have to use the first phrase. What if
23 we said, "Should be chartered for a fixed period of time
24 such as five years?" At the end of that period or
25 before the end of that period the process and substance

1 of the activity should be independently evaluated to
2 determine whether they adequately fulfilled and should
3 be continued.

4 DR. SHAPIRO: Well, that goes into two
5 sentences which is the structure that Diane suggested.

6 MR. CAPRON: Yes. I agree with Diane.

7 DR. SHAPIRO: Okay. Let's see what we can
8 do.

9 DR. SCOTT-JONES: I would also put it in the
10 active voice to say who should arrange the independent
11 evaluation.

12 MR. CAPRON: Yes.

13 DR. SHAPIRO: Okay. So we agree on fifteen
14 that we will replace it with two sentences. One is it
15 establishes a fixed term like five years for this and
16 the second of which talks about the evaluation and we
17 will get DHHS to -- that is what I would suggest anyway.

18 DR. DUMAS: Yes. I would, too.

19 DR. SHAPIRO: Do the evaluation -- you know,
20 decide what kind of evaluation to do and so on. Using
21 this language about the mechanism. Okay.

22 Well, let me make the following suggestion
23 as we draw this part of our discussions to a close. We
24 will get a new set of recommendations incorporating
25 these final changes to everyone, not tomorrow but

1 certainly no later than the next -- than the day after
2 tomorrow, which will be Friday.

3 If there are any remaining concerns please
4 let us know immediately because otherwise we will assume
5 this is a set of recommendations around which we are
6 going to build our executive summary and then the
7 report. And I want to repeat what I said before. We
8 have a lot of rewriting to do in response to many of the
9 good suggestions that have come up.

10 If there are additional suggestions, marked
11 up copies, anything like that to help us take -- get the
12 benefit of your own thoughts, ideas and perspectives, it
13 would be extremely helpful. We are going to be writing
14 this more or less nonstop from tomorrow morning on. So
15 the sooner we hear from you the better. We are very
16 dependent on your quick feedback here.

17 Diane?

18 DR. SCOTT-JONES: I have two more comments
19 that I can make now. They are very brief.

20 DR. SHAPIRO: If brief, yes, because I
21 wanted to get a chance to get the international group
22 started.

23 DR. SCOTT-JONES: For recommendation twelve,
24 consistent with other changes that we have made. I
25 would start this sentence with "all federal agencies

1 should ensure that their review processes for research
2 protocols using embryonic stem cells and embryonic germ
3 cells comply," and then the rest of it will be the same.
4 It is just consistent with other changes that we have
5 made to put all federal agencies should ensure.

6 DR. SHAPIRO: Have you written that in?

7 DR. SCOTT-JONES: Yes.

8 DR. SHAPIRO: Okay. That is very helpful.
9 Can you just give it -- pass it up here when you are
10 through?

11 What is the second one?

12 DR. SCOTT-JONES: And then the other one is
13 for recommendation five. I would like the commentary
14 still to say something more about the importance of
15 discussing sources of funding in commercial interest
16 because we changed that to soften it somewhat to say if
17 known after the bullet one, two, three, four, that
18 refers to funding and commercial benefits.

19 MR. CAPRON: What is your concern?

20 DR. SCOTT-JONES: Just to make sure that in
21 the text there is some reference to the importance of
22 discussing that because it was brought up that in many
23 instances that would not be known at the time the
24 request is made to the potential donor.

25 DR. SHAPIRO: Okay.

1 MR. CAPRON: This is a general comment on
2 the report and I think the report will read much better
3 if we do two things. If we avoid the use of the word
4 "we" except when we mean the commission. In other
5 words, the "we" that is in general writing just because
6 it is confusing. And that if we avoid saying "NBAC"
7 this and "NBAC" that to the extent possible.

8 DR. SHAPIRO: I agree with especially the
9 latter.

10 MR. CAPRON: It just -- you know, in our
11 report to speak of ourselves in the third person is --

12 DR. SHAPIRO: I agree with that.

13 Diane?

14 DR. SCOTT-JONES: And there is also places
15 where we say "NBAC did X" and then we refer to NBAC as
16 it.

17 MR. CAPRON: Yes.

18 DR. SCOTT-JONES: Those are really terrible.

19 MR. CAPRON: It is just odd.

20 DR. SHAPIRO: Okay. Other kinds of
21 editorial suggestions? We are anxious for -- please, if
22 you want us to pay any attention, write them down. We
23 just cannot keep track of all these suggestions that are
24 not written down. So everybody has a writing request
25 and homework assignment.

1 Now remember, I am going to repeat it, this
2 is the third time this morning, any marked up copies,
3 please leave them. One, it will save you the trouble of
4 carrying it all the way back. Second, we would just
5 greatly benefit from it.

6 DR. COX: Can we e-mail marked up copies?
7 Can we e-mail corrections of these, through e-mail?

8 DR. SHAPIRO: E-mail is great. Hopefully,
9 tomorrow.

10 DR. COX: Yes, exactly. To who?

11 DR. SHAPIRO: Everyone. You can -- anything
12 you like. To everyone is best so that everyone gets a
13 chance to look and comment. If that is not possible
14 just send it directly to Eric or myself.

15 Yes, Bette?

16 DR. KRAMER: Harold, what are you thinking
17 about for the completion of the text? When do you think
18 we might have a --

19 DR. SHAPIRO: I do not want to make a
20 specific forecast but we are going to try to do it in
21 the next couple of weeks. We are not waiting months
22 here. So you will have to be -- I mean, really we need
23 all your comments by the beginning of the week. After
24 that it is almost too late for us to accomplish the
25 writing.

1 Why don't you introduce the next section?

2 THE INTERNATIONAL PROJECT

3 DISCUSSION OF DRAFT OUTLINE FOR THE INTERNATIONAL
4 PROJECT

5 DR. MESLIN: Thanks very much for everyone's
6 patience. We had originally scheduled a discussion of
7 our international project for earlier today but as you
8 all know we have been working on the ethical use
9 project.

10 Dr. Ruth Macklin, who has joined the NBAC
11 staff as a consultant on a part-time basis over the
12 summer has been working with us to flush out a working
13 outline of the International Project. Many of the
14 consultants to the commission on the International
15 Project are here with us today in the audience.

16 I would also like to let the commissioners
17 know that we have a new staff member that has also
18 joined us for the summer, Alice Page, who is here.
19 Alice may just want to stand up and say hello. You will
20 meet her more, I hope, in the months to come.

21 I thought with the time that we have
22 available to us, the half an hour, that Ruth would be
23 able to at least introduce and discuss the draft
24 outline, which is contained in your briefing books. It
25 is actually the last item in your briefing books. That

1 both Ruth and Alex, as necessary, could lead some
2 discussion and get some input.

3 DR. MACKLIN: Thank you. I guess we are
4 going from the micro to the global. This is a very
5 tentative outline and it is an outline that I developed
6 with Eric's help and some comments from Alice Page for
7 the international report.

8 I am not sure how much all the commissioners
9 know about the empirical studies that are -- so you know
10 that there are ongoing empirical studies that are
11 referred to at various points in this outline and will
12 form part of the data that will -- for flushing out the
13 report so I have got this in the introduction and five
14 chapters, I believe, six chapters.

15 The introduction, of course, will explain
16 why this report is needed, briefly describing some of
17 the key events and circumstances that lead up to the --
18 that have led up to the need at this particular time for
19 the report, and as everyone here knows because they were
20 previously here when I spoke once before, in Cleveland,
21 I think it was, on the international issues.

22 There were, I think, a few seminal events.
23 Namely the controversy that erupted over the placebo
24 controlled AZT maternal to child transmission studies.
25 That controversy died a natural death, although the

1 issues that it raised have not gone away and, in fact,
2 are ongoing and if we look towards the future are likely
3 to emerge again with the vaccine trials, HIV vaccine
4 trials, many of which will be supported by the U.S. and
5 other international agencies and, of course, conducted
6 in some of the resource poor countries.

7 The introduction will simply also list and
8 briefly describe other efforts going on simultaneously
9 to look at the international collaborative issues so
10 although it is certainly a concern in the United States,
11 in part, flowing from that AZT controversy but also
12 because of the work of the -- the support of the NIH in
13 future studies. Other countries are experiencing the
14 same problems or addressing the same dilemmas.

15 Now the outline below, following the
16 introduction, simply lists by chapter what the
17 ingredients or the elements will be in each chapter. If
18 this does not make sense as the report begins to get
19 written and as the data is being analyzed, as data are
20 being analyzed then we will, of course, change the
21 order.

22 Chapter one should give a historical
23 perspective on U.S. sponsored research in other
24 countries and particularly highlighting some of the
25 problems, complaints, difficulties that have arisen.

1 There is a lot of anecdotal information around and a lot
2 of people cite problems that have arisen in the past,
3 issues of exploitation and other concerns.

4 I think we need to do it a little more
5 systematically and raise the question, as the last
6 second brief paragraph says, the point of the chapter
7 will be to determine whether any of these past alleged
8 abuses might still occur today or whether current U.S.
9 Federal requirements adequately protect research
10 subjects in other countries.

11 I refer to -- I have used the word
12 "anecdotal." Perhaps I ought also say refer to
13 journalistic accounts. We frequently read every time a
14 journalist writes in the Washington Post or in the New
15 York Times we see an account of some current problem or
16 alleged problem, and there is always a response either
17 from the researchers themselves or from the sponsors of
18 the research that never gets published but becomes known
19 to any of us who happen to hear their responses.

20 And these responses are often attempts to
21 explain, justify and correct the misstatements if there
22 were misstatements in the press. So that is one of the
23 reasons I think we need a little bit better research to
24 document things and go beyond -- if we can, go beyond

1 the journalistic allegations. The hope is that we
2 get outside research preferably by a trained historian.

3 Chapter two will focus on applying the U.S.
4 research regulations in other countries and these -- the
5 specific content will be problems encountered by
6 researchers. Now there are there ongoing studies.
7 Jeremy Sugarman's, Nancy Kass' and Adnan Hyder, and
8 there may be additional illustrations but all of these
9 will look -- are seeking to -- through interviews, case
10 studies and focus groups, these empirical studies are
11 designed to find out both from U.S. researchers who are
12 doing research in international settings and from
13 researchers in the countries where the research is being
14 done, who are collaborating with the U.S. research.

15 So any other information in addition to
16 those empirical studies that is relevant will be brought
17 in there and again the point of the chapter will be to
18 see which and how many barriers stem from difficulties
19 in applying the U.S. regulations in other settings and
20 which problems stem from factors that have little or
21 nothing to do with U.S. regulations.

22 Eric Meslin asked me what is an example of
23 that, problems that have little or nothing to do with
24 U.S. regulations, and I actually could not think of one
25 but I know they must be out there because certainly not

1 all problems are going to come from applying the U.S.
2 regulations so that will be another and that, of course,
3 should inform the report. After all, if there are
4 problems that arise in international collaborative
5 research that cannot be traced to the regulations there
6 might be other remedies but the remedy would not be to
7 seek any changes or expansion or modification of the
8 U.S. regulations.

9 Nevertheless, I know, again anecdotally but
10 not systematically, that researchers complain all the
11 time about how the U.S. regulations constrain them in
12 doing research in other countries and, in fact, I have
13 been in touch with at least one person and colleagues at
14 NIAID that sponsors the AIDS research and he said he
15 would be delighted to speak with me and, you know,
16 perhaps others to -- might even want to come and speak
17 before the NBAC to outline some of those problems. I
18 mean, since AIDS is on the front burner, the controversy
19 over the AZT was an AIDS controversy, the vaccine trials
20 are also AIDS, so I think looking at some of those might
21 be instructive.

22 MR. CAPRON: I had thought from some of the
23 discussions that we intended to include in the category
24 at the end of that sentence that had little or nothing
25 to do with U.S. regulations situations where most

1 countries could easily comply. For example, in the make
2 up of an IRB. But a particular country because its
3 experts happen to be few and far between or are in
4 different cities and actually simply going from city A
5 to city B is a big deal and something they do not do
6 frequently that it is difficult to carry out some of the
7 functions the IRB is supposed to be doing.

8 And one could say that that stems from the
9 regulation but it is not really something about the
10 regulation to which anybody objects in principle. It
11 is simply that --

12 DR. MACKLIN: Practical barriers, yes.

13 MR. CAPRON: -- practical barriers and I
14 thought we were going to use that as the kind of
15 illustration but maybe I misunderstood you.

16 DR. MACKLIN: No. I think that is a good
17 example of one and --

18 MR. CAPRON: We heard about such problems in
19 Nigeria or other cities.

20 DR. MACKLIN: Right. And, in fact, efforts
21 are going forward. Probably -- to my knowledge, not by
22 people in the United States but that may be my ignorance
23 but certainly at the international level through the
24 Joint United Nations Program on AIDS and the World
25 Health Organization to do capacity building and one

1 feature of capacity building is specifically to increase
2 the numbers, the knowledge, and the numbers of people
3 who are able to do ethical review and, thereby, serve on
4 -- we are the only country that calls these things IRB's
5 by the way. And I think in a way we have to be careful.
6 We have to use that word because that is our word in
7 this country but they call them usually Ethical
8 Committees or Ethical Review Committees or Research
9 Ethics Committees, one of those terms.

10 So that is a good illustration. Thanks,
11 Alex.

12 The -- I am sorry, sure. Yes? Sure.

13 DR. SCOTT-JONES: I have just a really brief
14 question. I am very interested in the empirical work of
15 Jerry Sugarman and Nancy Kass. They talked to us
16 briefly in a previous meeting and I was wondering if we
17 could get an abstract that would lay out the design of
18 their studies and I also wondered are those -- about the
19 funding. Does NIH fund those studies or do we, NBAC,
20 fund them?

21 DR. MESLIN: We fund them. That is part of
22 our contract with them. Jeremy and Nancy are both here
23 if you would like to ask them a question. They --
24 either or both. Nancy or Jeremy, do you want to just
25 respond?

1 DR. SCOTT-JONES: Just to get an abstract of
2 the --

3 DR. MESLIN: We have given you a summary but
4 we can give you a more updated one if you would like.
5 We also have --

6 (Simultaneous discussion.)

7 DR. SCOTT-JONES: That would be great.

8 DR. MESLIN: Happy to do that. And, yes,
9 NBAC funds this but it also goes through institutional
10 review at all the relevant places as well as clearances
11 that are required at various places, yes.

12 DR. MACKLIN: So you will provide that then.

13 DR. MESLIN: Yes.

14 DR. MACKLIN: Okay. Let me go on to chapter
15 three, which is a timely coincidence because Patty
16 Marshall just walked into the room and this chapter will
17 be drawing on her largely but on her research and
18 possibly more.

19 The third chapter will address problems and
20 concerns in applying the U.S. research regulations in
21 other countries once again but this time barriers
22 stemming from cultural and religious differences and
23 this is often stated -- again another anecdote, people
24 from other countries say, "We cannot apply your

1 regulations." It almost always comes down to variations
2 on informed consent.

3 It would be very interesting to see
4 something other than informed consent in this category
5 but I mean there are aspects of informed consent. To
6 give an example, permission that might be needed from a
7 male member of the household for a woman to enter
8 research. That is related to informed consent. It is
9 not the consent per se but it is certainly related to
10 it.

11 I would like to sort of be able to draw on
12 some other examples if we can but here Patty Marshall's
13 project which, as I understand it, is focusing largely
14 on informed consent although other things may bubble up
15 will be really the center piece.

16 And so noted here in the first paragraph at
17 the end since Marshall's study focuses on informed
18 consent, additional research will be needed to identify
19 areas beyond consent that give rise to cultural,
20 religious or political barriers.

21 Now political is stuck in there again at the
22 excellent suggestion of Eric Meslin but I think we need
23 a different kind of analysis here and I remain uncertain
24 whether political belongs in the same chapter under the
25 same heading so we welcome suggestions or observations

1 because cultural and religious is one thing and
2 political can be anything in any country.

3 So again the point of the chapter is to
4 determine whether U.S. research regulations may
5 justifiably be broadened or made more flexible to
6 accommodate some cultural differences without lowering
7 substantive ethical standards embodied in U.S.
8 regulations. And, of course, this requires some
9 assessment of whether changes in the regulation would
10 succeed in avoiding these problems. So I think focusing
11 again on informed consent -- I mean, if you think about
12 it, that would be where that would lie. The note
13 just simply again reiterates the problem with the
14 political factors.

15 Chapter four will undertake to compare key
16 elements in U.S. regulations and regulations in other
17 countries in order to identify key elements on which
18 U.S. regulations differ from or conflict with those in
19 other countries.

20 Now since this international report will be
21 largely on collaboration or international research
22 sponsored by the U.S. in what are called developing or,
23 a term that will probably soon be abandoned, or resource
24 poor countries. Nevertheless there are collaborations
25 with other industrialized countries and some of the U.S.

1 sponsored research and international collaboration takes
2 place with industrialized and, in fact, Jeremy's
3 project, I think, deals with at least one, if not a
4 couple of industrialized countries.

5 The industrialized countries are the ones
6 that are the most likely to have an elaborate set of
7 research regulations similar to those that we have.
8 Less likely but happening in other countries. I know in
9 India the MRC, Medical Research Council, in India has
10 just promulgated a set of research regulations so things
11 are quickly developing in the other countries, the so-
12 called developing countries, and this will really, I
13 think, undertake -- we need to undertake a fairly
14 detailed comparison but, of course, we cannot compare
15 everything in the world.

16 So what I suggest here is that examples
17 should probably begin with the countries represented in
18 the studies by Sugarman, Kass, Hyder and Marshall at
19 least to be able to connect and make this report
20 systematic. That is not only are we going to look at
21 the regulations, not only are we going to investigate
22 the researchers but we will have a total picture or as
23 total as you can get without being complete of these
24 individual sites.

1 One other -- others might be chosen and one
2 other possible criterion would be countries in which the
3 NIH and the CDC, in particular, have conducted a
4 substantial amount of collaborative research. So the
5 next is a list -- I do not want to go through this list
6 now because it is almost self-evident but again we
7 welcome additions to this list or clarifications if
8 needed of the elements that would be compared. Okay.
9 It includes one through four but is not limited to one
10 through four. Some may not be so important for our
11 purposes.

12 I mean, number four, I am not sure whether
13 the presence or absence of special rules for children,
14 prisoners, fetuses, mentally impaired individuals and
15 pregnant women, whether that is as relevant to the
16 concerns of this report. It may be but perhaps it may
17 not be.

18 Now, also, this is, as you can see, the
19 longest -- there is no symmetry here in this. The
20 paragraph in the middle of the page says the chapter
21 will have to specify procedures to be followed when the
22 U.S. and the collaborating countries, IRB's or research
23 ethics committees fail to agree in approving or -- it
24 should be approving or disapproving a research protocol

1 -- or disagreeing about specific provisions of the
2 research.

3 Our federal regulations are totally silent.
4 They say nothing about -- they do not even say anything
5 about multisite trials in this country and what happens
6 when different IRB's look at it. So this may be a
7 broader problem that applies as much in the U.S. as
8 elsewhere. But I do believe -- I have here "may" --
9 some countries' regulations may address this point.

10 I attended one meeting in which someone from
11 the U.K. said that the MRC research regulations require
12 that both IRB's in the sponsoring country and of the
13 host country both approve and that they agree on all the
14 elements before the research can go forward.

15 And yet there are -- I know again from one
16 anecdote there has been a point of contention on that.
17 Some people in the resource poor countries say, "It is
18 taking place in our country, we should decide. We do
19 not want some big gorilla telling us what do. Well, we
20 know our people. We know our culture. We know the
21 burdens o disease. And, therefore, we should be the
22 ones to have the final or the ultimate authority in case
23 of any disagreement." So that is something that should
24 be addressed.

1 Again, the point of the chapter, to
2 determine where there are gaps, inconsistencies and
3 conflicts between -- it should read -- between U.S.
4 regulations and those of -- well, there could be gaps in
5 U.S. regulations and conflicts between U.S. regulations
6 and those in other countries.

7 Alice Page asked whether there is something
8 like a regulatory history that can explain differences
9 and discrepancies, and the report will have to draw some
10 conclusions regarding what to do about any such
11 discrepancies where they may exist in proposed
12 collaborative research, and here are some alternatives.

13 Yes, please.

14 DR. SCOTT-JONES: I have a question about
15 whether in this chapter or perhaps in another one you
16 would address the issue of in this country the fact that
17 research that is carried on without federal funding is
18 not subject to the same rules and how does that affect
19 the comparison of the U.S. to other countries?

20 DR. MACKLIN: Do you mean whether, for
21 example, research that is conducted in other countries
22 by -- let's say by a pharmaceutical industry exclusively
23 without any contribution from U.S. federal funds,
24 whether that would be -- whether that would be the

1 analogous situation that exists in this country. I
2 mean, I am not sure.

3 DR. SCOTT-JONES: Well, I think there would
4 be a lot of implications for comparing the U.S. to other
5 countries when you talk about U.S. regulations because
6 U.S. regulations do not apply to all U.S. researchers.

7 DR. MACKLIN: Right, that is true. Well, we
8 will have to consider what to do about that.
9 Interestingly enough, all other -- most, let me say
10 most. To my knowledge, most other countries when they
11 have research regulations they apply to everything that
12 goes on in the country. They have a Ministry of Health.
13 We do not have a Ministry of Health. They have a
14 Minister of Health. And all of the -- most of the
15 regulations in those countries come out of a Ministry of
16 Health and they apply to all research that is conducted
17 in the country, whether it is sponsored locally, whether
18 it is sponsored -- conducted and sponsored locally,
19 whether there are outside sponsors.

20 DR. SCOTT-JONES: I think throughout there
21 is sort of a theme that the U.S. regulations might be at
22 a higher standard somehow, that is sort of implicit in
23 the way you are approaching this, and it may be that --
24 what you just said, that other countries have a more
25 uniform application of the regulations that they do

1 have. That might be something for us to think about or
2 have addressed in your report.

3 DR. MACKLIN: Yes.

4 DR. HOLTZMAN: I think this is a fascinating
5 area and I think it is important to remember that the
6 overwhelming majority of human subjects research
7 conducted by the pharmaceutical and biotechnology
8 industry is in support of drug registrations, which is
9 controlled by the FDA and under FDA regulation you are
10 essentially coming under the purview of the Common Rule.
11 Okay.

12 But it does raise the further question of
13 the focus of this report on research sponsored by whom
14 because I saw you talking to someone last night who has
15 responsibility for a multi-hundred million dollar
16 worldwide registration effort on behalf of a major
17 pharmaceutical company and in the current economic
18 environment all drugs are being developed through
19 simultaneous worldwide registration and the industry
20 runs into all sorts of issues about how do I do the same
21 study in the U.S. versus other countries.

22 And I think our empirical studies focusing
23 on research that is under the CDC and NIH when, in fact,
24 there may be a ton more research going on by the
25 pharmaceutical industries worldwide where we could get a

1 heck of a lot of information about the issues and
2 problems. And they range -- you know, they range from
3 the U.S. requiring studies, for example, of placebo
4 controls by the FDA, which are considered immoral in
5 other countries, certain other countries.

6 So when you say "stringent," stringent cuts
7 more than one way here. So I just think it would be --

8 DR. MACKLIN: Indeed, and we will come to
9 some of those points, Steve, on the very next page.
10 Okay. Because we are -- there are some things that --
11 international guidelines that address it.

12 I have at the bottom of this page here
13 research is needed to address the following questions:
14 Have there been any actual conflicts stemming from these
15 discrepancies? I mean, it is one thing to identify
16 discrepancies that exist between U.S. regulations and
17 others but they may never have posed any conflict.
18 There is just a discrepancy.

19 If so, who has done that? That is who has
20 been the adjudicator or the one to resolve the problems?
21 What agency? Is it the FDA when it is under its
22 jurisdiction or the CDC, et cetera? So again this has
23 to look at -- again a recent history, not back too far
24 but recent history just to see whether any such
25 conflicts have arisen.

1 Now chapter five gets to some of the
2 questions that Steve had just made. This is a
3 comparison of U.S. regulations and current international
4 ethical guidelines of which there are several. And just
5 as a reminder, the -- one of the arguments that was
6 given by the severest critics of the placebo controlled
7 AZT mother to child transmission studies.

8 Those arguments were based on clauses and
9 provisions in the declaration of Helsinki, which I do
10 not believe anybody in the United States ever looks at
11 even if they know about it, and another much elaborated
12 version that is much more detailed, the CIOMS, Council
13 of International Organizations of Medical Sciences,
14 which really does not mean anything. The CIOMS
15 guidelines -- well, I mean, it is not really a council
16 and it is not the organizations but it is the -- it is a
17 body that is a private body, nongovernmental body
18 loosely connected with the World Health Organization.

19 And those guidelines, the CIOMS guidelines,
20 rest on the Declaration of Helsinki. They do not
21 conflict with it but they elaborate in much greater
22 detail and say a lot about international collaborative
23 research.

24 I do not know of any examples other than the
25 controversy that arose over the AZT where there has been

1 an invocation of those international guidelines by
2 people looking at U.S. sponsored research.

3 MR. CAPRON: They are certainly invoked in
4 many of the countries as their guiding principles.

5 DR. MACKLIN: Yes. I meant in this country.
6 They are, indeed, in other countries and especially in
7 countries that have not had to date or still do not have
8 any regulations or any code of federal regulations or
9 rules. They are the guiding principles used by
10 researchers. I know that when WHO in some of its
11 programs sends out the application packets for
12 researchers they include the Declaration of Helsinki and
13 the letters that come back that are signed by people
14 attesting to their plan to conduct ethical research
15 saying we are going to follow the Declaration of
16 Helsinki. So that is certainly true.

17 Now there is one other -- I have one other
18 document here and it refers -- it relates to what Steve
19 was talking about. It is the ICH. I have not spelled
20 that out here and I have even forgotten what it stands
21 for. It is the International Conference on
22 Harmonization. And it deals with drugs and drug
23 research only.

24 And the International Conference or whatever
25 the "C" stands for is essentially an international -- I

1 do not think it is a treaty but it is an international -
2 - it is a document that was supported by and agreed to
3 by the United States and European Union and Japan.

4 Okay. All industrialized countries and the key point
5 there is the harmonization, namely to have harmonization
6 and it is very detailed. It incorporates very much of
7 what is in the U.S. federal regulations and more.

8 So this kind of comparison -- I mean, that
9 is a document which in the pharmaceutical -- in industry
10 sponsored research must be adhered to, I take it,
11 because that is the -- if it is drug development.

12 DR. HOLTZMAN: Right. The idea is that by
13 harmonizing the regulations both with respect to consent
14 to what is a valid study but also what will be
15 considered a valid study supporting safety and efficacy
16 that you would then be able to reference data from a
17 study undertaken in one country with another such that
18 economically it makes sense because you do not have to
19 replicate studies and from the human subjects protection
20 perspective you do not have to replicate studies as
21 well.

22 DR. MACKLIN: And there are a lot of
23 procedural rules there too about research ethics
24 committees, their compensation, et cetera.

1 I will leave to your silent reading that
2 middle paragraph there because that is one of the key
3 elements that is omitted from U.S. federal regulations
4 that is causing much of the problems in international
5 research but let me just race up to chapter six, which
6 is the summaries and recommendations.

7 It is sort of obvious at least the following
8 items should be addressed. In international
9 collaborative research what are the obligations of U.S.
10 sponsors when international guidelines include
11 requirements that are not included or even mentioned in
12 U.S. regulations. I mean, this is almost the other side
13 of the coin. One question is what happens when we have
14 rules that other countries do not have or do not want to
15 follow.

16 This is what happens when you have got
17 provisions in international documents and declarations
18 that other countries adhere to or rely on and they see
19 the United States not complying because it is not in our
20 regulations.

21 Now I put "higher standard" in quotation
22 marks because we, of course, are going to have a debate
23 about what standard are the higher and what higher means
24 and what are the criteria for higher. So whether the

1 higher or more detailed requirements should be adhered
2 to, those are the questions under (a).

3 Under (b), how should the collaboration
4 between sponsor and host country proceed? I mean, this
5 is largely procedural but can be very important. The
6 committee that I chair, the Ethical Review Committee at
7 UNAIDS, the Joint United Nations Program on AIDS, and we
8 had a huge debate on the committee about a seemingly
9 unimportant trivial matter, namely the UNAIDS Ethical
10 Review Committee must approve the research protocol and
11 the UNAIDS regulations or our guidelines require local
12 ethical review. The point that Alex was referring to
13 before. Now assuming that there is local ethical review
14 and they can put together a body to do it, which should
15 go first.

16 Well, I mean, there was a fierce debate but
17 it really did touch on questions of power, empowerment,
18 rubber stamping, and all the things that you can think a
19 discussion like that might raise. So that is procedural
20 but held by some people to be very important.

21 What about disagreements when they arise
22 between U.S. researchers or the sponsoring agency and
23 local researchers in a collaborative trial or between
24 the host country, IRB, and the sponsoring country IRB?
25 I mean, what to do about disagreements.

1 And (c), what level of care and treatment
2 should be provided to participants in clinical trials?
3 And the questions that follow relate both to the
4 controversy that led to some of this -- to the need for
5 this, namely the AZT trials, also the just beginning and
6 future HIV vaccine trials? What level of care and
7 treatment is it? What is normally available in the
8 sponsoring country? What is available in the host
9 country, et cetera? Again this is a point on which U.S.
10 regulations are totally silent. They say nothing about
11 treatment of any research subjects within the United
12 States. I mean, forget abroad. Nothing about that.

13 And (d), at the end of the trial what must
14 be made -- what, if anything, must be made available?
15 The CIOMS guidelines state that successful products that
16 emerge from research, international research, must be
17 made reasonably available. Okay. They do not say by
18 whom and they do not say to whom, and people have argued
19 on both sides of this.

20 And then finally some questions about global
21 justice. What does global justice require?

22 So I am sorry to take so long in going
23 through the outline but I wanted to give a kind of rich
24 picture of where it should go and I guess there is much
25 more to be said.

1 DR. SHAPIRO: Thank you.

2 Alex, do you want to make a comment?

3 MR. CAPRON: The only comment I would have
4 is to remind people of the note on page one, which Ruth
5 alluded to. It may well turn out, and I frankly have a
6 small personal preference, that we make this report turn
7 around some substantive issues of content and that we --
8 in terms of the differences and the problems that
9 actually have arisen, that there is certain generic
10 categories, and that we avoid the kind of process in
11 which we have historical reviews and then summaries of
12 some research and summary, rather than taking the
13 research and the history and applying them to a
14 particular problem.

15 As Ruth says, that is pretty much going to
16 be determined by what the sort of total data bank looks
17 like at the point where she and the staff are trying to
18 write this and it may turn out that the organization,
19 which is excellent, the organization which is here, does
20 work the best if certain substantive problems have sort
21 of left out. Our main concern here is not an abstract
22 dissertation about collaborative research and so forth.
23 It is are there needed changes in HHS or FDA regulations
24 to take account of international concerns and the
25 concerns of the host country.

1 Is that fair?

2 DR. MACKLIN: Sure. I think one very direct
3 way of doing that would be -- one area would be informed
4 consent. Another would be risk benefit and differences
5 in risk benefit in different countries. A third would
6 be the areas not addressed by the United States
7 regulations such as the care and treatment issues.

8 MR. CAPRON: Right. And I am just saying
9 that it might turn out that focusing it that way makes a
10 crisper presentation leading us more quickly to --

11 DR. SHAPIRO: Alta?

12 MS. CHARO: I hope this will not be
13 considered inconsistent with what you just said, Alex,
14 because I found as I looked through what is a fairly
15 comprehensive outline that I desperately wanted to flip
16 it back to front because the elephant in the room is
17 really about the global justice issues that are on the
18 table at CIOMS, with the Helsinki rewrite, with Nuffield
19 (?) and Wellcome and other efforts.

20 And I think that those discussions, which
21 are fundamentally about how to construct ethical trials
22 against background conditions that are fundamentally
23 unjust, of differential access to basic pharmaceuticals,
24 of overlapping and conflicting priorities having to do
25 with intellectual property rights, and industrial

1 companies, pharmaceuticals in developing countries, that
2 backdrop is something that is the source of the distress
3 that people are feeling and I would actually love to see
4 that moved forward to the very beginning.

5 Even if the role of this commission is much
6 narrower, even if our audience is within the executive
7 branch to advise on very specific things that they might
8 do to tinker with the system, I think that tinkering has
9 to be done with some knowledge that it is being -- its
10 subject to the changing winds of these international
11 agreements.

12 Much of the rule -- you know, much of the
13 rule making we have around things like informed consent
14 is premised on notions about the range of choices people
15 have, their freedom to make choices within that range,
16 their capacity to obtain information, and it is not just
17 a matter of cultural differences about autonomy but a
18 matter of developmental differences in terms of their
19 background economies.

20 I do not think that a discussion about
21 informed consent and what the rules ought to be and what
22 the documentation ought to be could be sensible unless
23 one saw it in the context of whether or not that is
24 really, in fact, an effective protection against a
25 system that might be considered exploitative by virtue

1 of these background conditions. I appreciate the fact
2 that that might make the report incredibly fuzzy and so
3 I know it is an organizational challenge.

4 The second thing, and I will try to be
5 briefer now, that occurred to me in terms of topics that
6 we might or might not want to add on, and I also want to
7 mention I understand that unless we get reauthorized
8 some time in the near future this is all highly
9 theoretical.

10 DR. COX: Based on our most recent report,
11 this is going to be interesting.

12 MS. CHARO: Yes. Having sat in the audience
13 I would certainly agree with that observation.

14 MR. CAPRON: Cash your checks as soon as you
15 get them.

16 (Laughter.)

17 MS. CHARO: The following questions and
18 possible additions: First, the scope of coverage.
19 Diane's question about the private sector research in
20 the United States which can at times be totally free of
21 federal regulation raises for me the question of whether
22 one might want to focus this report entirely on the
23 pharmaceutical sector because it cleans up certain
24 variables. It will certainly be subject to regulation
25 because it is, in fact, going to be focused on products

1 that will eventually have to go to the FDA so you are
2 covered by the regs.

3 Second, it seems to pick up the most
4 emotionally charged issues that have occurred to date.
5 It picks up the ones that have the biggest and most
6 organized financial interests and it picks up the ones
7 that are the subject of the major harmonization efforts.
8 So in some ways it is a wonderful model case but it does
9 mean that when one makes recommendations about our regs,
10 which apply across the board, it would be difficult for
11 us to know at a glance whether or not our
12 recommendations make sense in the nonpharmaceutical
13 context so this is a question. All right.

14 The second is whether we want to take on the
15 interaction between this and the so-called comprehensive
16 project and discuss the capacity of U.S. local IRB's to
17 handle the tasks that would be assigned to them -- that
18 are assigned to them when it comes to evaluating
19 transnational research.

20 One of the things that emerged in the
21 Fogarty meeting was that not only are there problems
22 with IRB's in other countries but there are problems
23 with the IRB's here. They are not -- they are not set
24 up for this because they see these protocols rarely.

1 They do not know the conditions in those
2 countries. They do not have any basis for independent
3 evaluation of the Ministries of Health, the culture, the
4 politics, the local institutions, and once again, as in
5 many other areas, discussion turned around regional
6 IRB's, advising IRB's and national IRB's. There are all
7 these alternatives to the kind of decentralized review
8 we now have, which is terribly burdensome and perhaps
9 not as effective as it could be.

10 And, finally, on the harmonization and the
11 role of international organizations, I guess I am going
12 to put in a plea similar to the one that I did in the e-
13 mail that went around to members of the commission and
14 that is to please make quite explicit the connections
15 between these rules, the harmonization efforts and trade
16 agreements because this is where the money is. And no
17 matter what we say about ethics I think that follow the
18 money is probably the right advice in understanding what
19 will, in fact, drive changes in the atmosphere as well
20 as in the regulations. And it is not a trivial thing to
21 have a lack of harmony in these regulations. It is a
22 huge issue financially that slows down research.

23 We have got NAFTA. We have got the EU's own
24 harmonization efforts. We have got the ICH. We have
25 got GATT and we have got the WTO and we have got the

1 pricing conflicts that I talked about in the e-mail over
2 intellectual property. And I cannot believe that we can
3 really discuss this sensibly while ignoring the economic
4 issues that really are driving the whole field toward
5 harmonization and toward a regulatory system that will
6 be acceptable across countries.

7 Sorry for going on so long. I had not had a
8 chance to talk for a day-and-a-half. I thought I would
9 do it all now.

10 (Laughter.)

11 DR. SHAPIRO: Arturo, David, and Steve? And
12 let me apologize. I have to leave early to catch a plane
13 but Arturo, David and Steve.

14 Eric will chair in my absence.

15 DR. BRITO: A couple of comments. I want to
16 make sure that Diane's comment is not lost and what I
17 would like to see in the discussion on chapter four is a
18 little -- some detail about what the legal implications
19 are for nonfederally funded corporations or institutions
20 doing research in Third World countries. What laws do
21 they have to abide to, et cetera, in other countries?

22 In chapter three when we were discussing the
23 barriers stemming from cultural issues, one of the
24 cultures that I think we often forget about is we tend
25 to say U.S. versus other countries' cultures, and what I

1 would like to see a discussion of is the scientific
2 versus nonscientific culture. A little more detail on
3 that because I think even within some of the countries,
4 if I remember correctly, with this AZT trial is they
5 were people within the countries that favored more what
6 would be considered U.S. culture, which is really the
7 scientific culture. I mean, I think that is an
8 important issue to discuss there.

9 And in chapter one in the historical
10 perspective on U.S. sponsored research I would like to
11 see a very positive tone at the beginning of the chapter
12 in terms of discussing the -- what other countries have
13 gained from U.S. sponsored research in those countries
14 because I think if I am not mistaken most of the
15 research done in other countries that is sponsored by
16 the United States has actually benefitted those
17 countries for the most part and it started off with all
18 the abuses or all the problems they have had with the --
19 that is not the best way to go. So just a positive
20 overtone and maybe giving a historical perspective on
21 some of the positive results from that.

22 And I had a question for you, Ruth. You
23 mentioned at the very beginning that the AZT trials
24 ended or died a natural death. My recollection of that
25 is that the -- that death came about because of the

1 attention the media paid to -- in large part because of
2 the attention the media brought to that. Is that what
3 you consider a natural death? I am not sure what you
4 mean by that? And I think that -- otherwise I am not
5 sure the trials would not have ended so suddenly.

6 DR. MACKLIN: Maybe I misspoke or was not
7 clear. I said the controversy died a natural death. I
8 mean, the trials themselves were halted and because of
9 the benefit it was halted -- the trial in Thailand was
10 halted because the shorter cheaper regimen demonstrated
11 efficacy considerably better than placebo. And then it
12 all died down and everybody went away and both sides
13 claimed victory.

14 DR. BRITO: In Thailand?

15 DR. MACKLIN: I mean, both sides in the
16 controversy, yes.

17 DR. BRITO: My understanding that the trials
18 would have gone on in African countries had not been for
19 the attention drawn on it by the media and I think that
20 is important in there to stress the importance of the
21 media there on a positive light, I guess, that they did
22 bring a lot of attention to it and that is why, I think,
23 those trials ended. Not because the scientific
24 community said it is time to end these trials. Am I
25 accurate in that --

1 DR. MACKLIN: We need to look at the facts
2 because it is my understanding that similar trials are
3 going to be initiated in other countries, in different
4 countries, and that the people defending those trials
5 are claiming we have a different population, we have
6 different nutrition, we have anemia among this
7 population, we do not know whether or not the shorter
8 regimen will work here, et cetera. So that there may be
9 more such trials and I am not certain that looking at
10 the media -- I mean, we have to get the facts and see
11 what happens.

12 DR. BRITO: Okay. And then the last point I
13 want to make is that when we are discussing the cultural
14 differences, some of the difficulty I have had is that
15 there are some "cultural" differences -- I will put
16 "cultural" in quotes here -- that deny basic human
17 rights to certain people and I am not sure how we can
18 address those within the context of research. So those
19 are my major points.

20 DR. COX: I have two points. One
21 surrounding comments made by others and then a
22 suggestion.

23 The first point in terms of comments made by
24 others. I, like Steve and like Alta, really would like
25 to see an emphasis placed on following the money in

1 terms of the biggest economic impact of these rules and
2 that is in the context not necessarily of the
3 pharmaceutical industry per se but where most of the
4 money is in terms of trade and it does not have to be
5 just in the pharmaceutical industry.

6 On the other hand, though, I would make the
7 following point: I think that actions of individuals
8 that do not have anything to do with the money can
9 really muddy up the works and could lead to policies and
10 policy changes where the money is that the individual
11 researchers do not have any idea about .

12 So by putting the focus on where the biggest
13 action is and then looking and saying that -- what are
14 the actions of maybe the smaller players that are really
15 impacting that in a big way, then that turns out to be
16 extremely interesting because it says that the
17 individual is quite important in terms of impacting big
18 changes in ways that they might not recognize.

19 The final point --

20 DR. MACKLIN: An example? Could you --

21 DR. COX: Yes, I am about to do that.

22 DR. MACKLIN: Okay.

23 DR. COX: Because the final point, I really
24 completely concur with Alex that specific examples
25 around which this can be woven will definitely have

1 people understand what the hell we are trying to talk
2 about. So fitting all of that together, here is my
3 recommendation for a specific example:

4 It is stored tissue samples between the U.S.
5 and China. This is an extremely interesting story that
6 I encourage you to delve into not only from the point of
7 view of the pharmaceutical industry but also from the
8 point of view of individuals. Individuals who are
9 Chinese Nationals who dramatically changed tissue sample
10 policy in China by their personal and private
11 interactions both with the pharmaceutical industry and
12 with academic institutions in the United States.

13 So I think that there is other examples.
14 That is a specific one I would like to give you because
15 I think it could be woven in, in terms of specifics, to
16 these principles of paying attention to where the money
17 is going, paying attention to actions of individuals,
18 where they think they are only dealing with their own
19 individual research grants but where it changes national
20 policy. This specific example deals with all three of
21 those.

22 DR. MESLIN: Just as a point of information,
23 it is not reflected in this draft extensively but Elisa
24 Eismann, who you all know is on our staff, is also
25 involved in this project and is going to be gathering

1 empirical data about the volume and source of funding,
2 both from public sources and to the extent that we are
3 able to do that from private sources. So that will be
4 reflected in some ways not yet in this final outline,
5 which is --

6 DR. COX: I mean, in summary, and I --
7 because I do not know, I often times do not make myself
8 clear that the specific examples and how -- not just
9 them as examples but how they impact on the bigger
10 picture of these things I think is often missed. People
11 just think it is the big boys that are making all the
12 difference and little things can impact what those
13 decisions are. We want to pay attention to those.

14 DR. MESLIN: Steve, and then Alta.

15 DR. HOLTZMAN: I would like to endorse for
16 several reasons we really think seriously about Alta's
17 points so let me talk about the elephant in the room in
18 two ways. There is -- you mentioned what Elisa is going
19 to look into.

20 There is a very important empirical question
21 here of -- in terms of the amount of funding and the
22 number of subjects exposed to experimental regimes, when
23 does that -- where is the bulk of that? My gut says it
24 is in pharmaceutical sponsored companies, sponsored
25 research. That the government sponsors subpanels in

1 insignificance. All right. If the primary charge of
2 this commission in this area is its concern for human
3 subjects research and we talk about the extension of the
4 Common Rule generally and we are specifically dealing
5 where the Common Rule is already effectively extended
6 under FDA, we should go to where the real action is.
7 That is a distinct question about the elephant in the
8 room in terms of economic interests intersecting there
9 but it just so happens it does as well and I think that
10 is great.

11 I also think it is a wonderful opportunity,
12 following on a theme from last night's dinner, to engage
13 that segment of our society, which because we are a free
14 market economy we have to charge with developing drugs.
15 And I think there is ways one could do this with letters
16 from Harold, all right, to the CEO's of all those major
17 pharmaceutical companies who are up and down the
18 turnpike from him in New Jersey to get them involved.
19 We say how do we get the data? Let's say we want to
20 understand what you do and its impact and let's get them
21 engaged.

22 DR. MESLIN: Alta? We are getting close to
23 our time.

24 MS. CHARO: Okay. Two quick things. First,
25 I wanted to just clarify one thing when I talked about

1 the elephant in the room. I mean, Ruth and I and
2 several others were talking about this before the
3 meeting so it is just for the purpose of the record.

4 I am talking even more than just the money
5 that is involved in pharmaceutical development, that is
6 to me just an aspect of the trade issues. The elephant
7 in the room for me is the discomfort that is felt in the
8 public about things that could be perceived as
9 exploitative or coercive where the exploitation and
10 coercion is not solely a function of the fact that you
11 have got for profit companies.

12 It is the fact that you have got richer
13 companies, in poorer countries you have got differential
14 access to health care, you have got devil's bargains in
15 which short-term gain from participation in a trial is
16 nonetheless difficult to swallow because there are
17 alternatives that would be available but for the
18 economic differentials. That is the elephant that I
19 think has got to be the backdrop and then the trade
20 issues play into that issue.

21 Okay.

22 DR. HOLTZMAN: But also the elephant in the
23 sense of --

24 MS. CHARO: Right.

25 DR. HOLTZMAN: -- who is the people.

1 MS. CHARO: Right.

2 The second thing is just informational so it
3 is very quick. One of the things I omitted in terms of
4 stuff that we might want to add in here is the European
5 Data Privacy Directives and their influence in this area
6 because it came up with the tissue sample stuff which is
7 why I remembered it when David mentioned his example. I
8 do not know that it is fully understood yet in terms of
9 its impact.

10 Steve seems to know more about it than I do.

11 DR. HOLTZMAN: Specifically the
12 pharmaceutical industry has observed that basically
13 clinical trials arguably would come to a halt.

14 MS. CHARO: I am sorry. I could not hear.

15 DR. HOLTZMAN: Clinical trials -- it is
16 problematic in terms of clinical trials whether or not
17 it would require you to break blinds to get people
18 access to their confidential information.

19 MS. CHARO: Okay. The other informational
20 observation is that at the Comprehensive Report Survey
21 of Federal Agencies' session last time, Marge Speers
22 from CDC talked about some very specific examples of CDC
23 collaboration with other agencies and I do not recall if
24 it was NIH, AID or FDA in which there are examples, in
25 fact, of U.S. agencies or departments finding themselves

1 in conflict with one another because of sequential
2 reviews with conflicting requirements that play into
3 this issue. So you might find some valuable information
4 there.

5 DR. MESLIN: I take the prerogative unless
6 there are any other questions to bring the meeting to a
7 close on Harold's behalf.

8 I will let the commissioners know what I had
9 mentioned to them on e-mail that the staff and the
10 consultants are going to be meeting once the commission
11 has adjourned for the day. We are going to be meeting
12 in this room to start going through our work plan and
13 any commissioners who are interested in sticking around
14 and participating in that discussion, the staff would be
15 grateful to have you join but other than that I thank
16 all the commissioners for coming and the public who was
17 able to attend.

18 The meeting is adjourned.

19 (Whereupon, the meeting was adjourned at
20 12:17 p.m.)

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