

29TH MEETING
OF THE
NATIONAL BIOETHICS ADVISORY COMMISSION

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1 P R O C E E D I N G S

2 OPENING REMARKS

3 DR. SHAPIRO: I would like to call today's
4 meeting to order. I want to once again apologize to the
5 commissioners for being unable to be here yesterday. I
6 had a long time conflict and just was unable to make other
7 arrangements but in any case I want to continue our
8 discussion and try as best I can to pick it up from where
9 we left off yesterday, where you left off yesterday.

10 I was briefed this morning regarding just what
11 issues have been covered and regarding the capacity
12 regarding the HBM report you went through chapters 1
13 through 3 and had rather lengthy discussions on
14 recommendations 1 and 2, 2 especially, ending up with at
15 least a thought that perhaps on recommendation 2 we might
16 actually break that up into two recommendations since
17 there was some considerable concern over just the whole
18 issue of what kind of independent stripping of identifiers
19 and so on meant. Who made them unlinked and how that was
20 done and so on was a subject of some discussion and we can
21 certainly come back to that later today.

22 I do not want to start with that. However, I

1 would like to come back to that later as something which
2 stills need to be resolved and I do not want to leave any
3 indication to you that I think that is a resolved issue
4 but I do want to come back to it later.

5 What I would propose this morning is that we
6 go on to recommendation 3 and begin working our way
7 through recommendations that follow both 3 and those that
8 follow and see how the commissioners feel about it.

9 I understand that, Alta, as you go through in
10 a serial way and we leave some things unresolved that that
11 may create difficulties later on and we will just deal
12 with those as we come to them.

13 So we will turn in a moment to continue our
14 march so to speak through these recommendations.
15 Recommendation 3 is on page 114 of the draft that is
16 before us.

17 Looking at our broader agenda for day we have
18 about two hours left to spend so we really do want to go
19 as quickly as we can through these and see how far we get
20 so we know really what the possibilities are for
21 completing this report and setting our calendar for its
22 completion.

1 I certainly do not want to see this report go
2 past the middle of this year without being completed. At
3 some stage we just have to say we cannot reach agreement
4 on something and deal with it in that way.

5 But in any case we have two hours this
6 morning. We will then have some time for an update on the
7 International Project, in particular Dr. Marshall will be
8 with us to discuss her work, and then we will have a
9 public comment session, which begins at 10:45. We will
10 break incidently before turning our attention to Dr.
11 Marshall. Then after that we will have a public comment,
12 which is currently scheduled between 10:45 and 11:15. And
13 after that we will go immediately to the stem cell set of
14 issues and spend the rest of the morning, it is going to
15 be a relatively brief time before lunch, and then the rest
16 of the afternoon on the stem cell issues, of which there
17 are many as you all know.

18 So if that seems agreeable to you, we can go
19 directly to recommendation 3 but before we do that are
20 there any comments or questions you want to raise at this
21 time?

22 I have been informed that unlike most of the

1 rest of you my microphone is on all the time so I may
2 interrupt you either inadvertently or advertently as time
3 goes on. If I do so inappropriately please forgive me.

4 DISCUSSION OF DRAFT REPORT CONTINUES

5 Let's go to recommendation 3 again on page 114
6 and ask if there are comments or reactions or concerns
7 about recommendation 3. It is short enough so I will just
8 read it out.

9 "Research conducted on human biological
10 materials that are linked to information that could
11 identify the individuals from whom they were obtained,
12 even through a code, is subject to the process of review
13 and approval specified by the Common Rule," et cetera.

14 Okay. Let's go on to recommendation 4.
15 Excuse me. If you have an objection I will take it later.
16 Let's go on to recommendation 4.

17 Trish, have you got the recommendations in
18 front of you? Page 115 now.

19 Yes?

20

21 PROFESSOR CAPRON: Having participated very
22 extensively in the process of writing and rewriting these

1 I apologize for only noticing this moment something that
2 we have talked about from time-to-time and that is the way
3 in which we have attempted usually to have a
4 recommendation in a recommendation.

5 I wonder collectively whether it is our view
6 that this recommendation is one which now reads like a
7 conclusion and not a recommendation, which requires any
8 action by anyone? Is this something in which the
9 recommendation is that investigators and IRB's should,
10 therefore, follow this? I mean, which is the implicit
11 here. I do not gather -- I gather that we are not saying
12 that OPRR has to change any aspect of the regulation. And
13 I just want to suggest to us that we might want to add a
14 sentence as a way of making explicit what is implicit
15 here.

16 DR. SHAPIRO: I think that is right. I think
17 I have that same interpretation and we can certainly
18 consider that. All right.

19 Let's look at recommendation 4. Again I think
20 you had some discussion yesterday regarding the word
21 "identifiable." It will come up everywhere here so let's
22 not focus on that. As you know, identifiable sometimes is

1 still in this draft, at least the draft I am working from,
2 and that just means coded and/or identified samples but
3 let's not stop on that wording. That will all be changed
4 as we go along. We decided that a meeting or two ago.

5 So let's look at recommendation 4, which talks
6 to what a repository should require. Are there comments
7 or questions regarding recommendation 4?

8 Okay. Let's look at recommendation 5 which
9 talks about "When reviewing and approving a protocol for
10 research on human biological materials, Institutional
11 Review Boards should require the investigator to set
12 forth..." and it is a), b), c), d).

13 Alta?

14 PROFESSOR CHARO: Just a very small change
15 under 5.b). I would suggest deleting the words at the end
16 of the phrase "from repositories" since sometimes the
17 samples will be obtained from something other than a
18 repository.

19 DR. SHAPIRO: That sounds -- now thinking
20 through it that sounds right although it does no harm. It
21 is the do no harm principle as I look at this in any case.

22 Any other comments or questions?

1 Yes, Bette?

2 MS. KRAMER: I have a question just as to the
3 placement of this recommendation prior to any discussion
4 or any recommendation about minimal risk or some of the
5 other material that comes later. I do not remember the
6 rationale for the placement of it here.

7 DR. SHAPIRO: I have not got a good response
8 for its placement. I have not thought through its
9 placement itself.

10 Kathi?

11 DR. HANNA: I would be happy to move it but
12 please tell me where you would like me to move it.

13 MS. KRAMER: That is why I should not have
14 spoken up.

15 (Laughter.)

16 DR. SHAPIRO: I like this discipline. We will
17 get somewhere here.

18 Alta?

19 PROFESSOR CHARO: I actually had a similar
20 concern because it talks about investigators providing
21 documentation from an IRB before we get to the point where
22 we are talking about IRB reviews. I am sure Bette and I

1 could find a place that follows all the IRB details and
2 suggest a place near the end.

3 DR. SHAPIRO: It is certainly not critical at
4 this point so there is no problem, I think, in finding a
5 more appropriate place. Thank you for pointing it out and
6 if you and Alta and Kathi will work on that I do not think
7 that will be any problem.

8 Okay. The next session of this chapter deals
9 with issues on informed consent and we have recommendation
10 6 which is on page 118. Comments? Questions?

11 Okay. That is followed on page 119 with
12 recommendation 7.

13 DR. MIIKE: One thing on 6.

14 DR. SHAPIRO: Yes. I am sorry, Larry.

15 DR. MIIKE: I guess it would be imprecise --
16 excuse me -- the phrase "obtained prior to the release of
17 this report" sets a fairly nebulous date it seems to me
18 and maybe we should be referring more to prior to the
19 implementation of the recommendations of this report.

20 DR. SHAPIRO: I think that is a very good
21 point. I think that is a very good point. Any objection
22 to that?

1 PROFESSOR CAPRON: No. We may also wish
2 grammatically, Kathi, to make the "when" clause and the
3 clause that follows fit together. The "when" clause
4 assumes that there is a person or persons taking some
5 action and then the subsequent clause says, "Must not be
6 presumed," and the thought is clear but grammatically it
7 does not make any sense. Do you see what I am saying?
8 When a person conducts such research that person or
9 committee reviewing it should not presume.

10 DR. SHAPIRO: That is right.

11 PROFESSOR CAPRON: Yes.

12 DR. HANNA: Is that -- I mean --

13 PROFESSOR CAPRON: It is an active passive --

14 DR. HANNA: No, I understand that.

15 PROFESSOR CAPRON: -- combination.

16 DR. HANNA: You want it to be the investigator
17 that we are talking about here?

18 PROFESSOR CAPRON: And the IRB.

19 DR. HANNA: And the IRB.

20 PROFESSOR CAPRON: Right.

21 DR. SHAPIRO: Any other comments on
22 recommendation 6 before we go on to 7? Okay.

1 We have now recommendation 7 on page 119.

2 I know, Bernie, you had a -- do you want to
3 speak to this? You had something which I am seeing for
4 the first time but go ahead and you might want to talk to
5 this recommendation.

6 DR. LO: I have a suggested minor addition, I
7 hope minor addition to the recommendation and some
8 accompanying text. This comes out of my sense that I
9 would like to see a little more here on the general issues
10 of these tiered consent forms so the explanation is really
11 to encourage people to continue to work on developing
12 these kinds of tiered consents but also recognizing that
13 there is a trade off between being comprehensive and we
14 obviously cannot predict everything that is going to be a
15 future research project and making it practical for both
16 these potential subjects and the people administering the
17 -- or running the collection of samples.

18 I also thought there is an option missing that
19 I would like to insert, which is really consent to use the
20 biological material for future studies relating to the
21 condition for which the sample was originally collected.
22 It seems to me that falls intermediate between d) and the

1 current e), which is to do everything. That is actually
2 one of the options that is listed in the -- I think both
3 the NIH and the National Action Plan for Breast Cancer
4 forums. I think there are conceivably some people that
5 would choose that as the preferred option among the list
6 here.

7 DR. SHAPIRO: Bernie, I just want to -- since
8 I missed yesterday's discussion I just want to make
9 sure -- I understand the 7.e) you have, which is add an
10 option. Is it to substitute for the existing e) or you
11 just want to --

12 DR. LO: No, I am sorry. I would move
13 existing e) down to f).

14 DR. SHAPIRO: Okay. I just wanted to clarify
15 my --

16 DR. LO: Right.

17 DR. SHAPIRO: Steve?

18 MR. HOLTZMAN: I have a question about e).

19 DR. SHAPIRO: New or old?

20 MR. HOLTZMAN: No, I am sorry. New f).

21 DR. SHAPIRO: All right. Let's deal with
22 Bernie's e) and see if people --

1 MR. HOLTZMAN: Oh, I am sorry.

2 DR. SHAPIRO: -- and if there is no objection
3 or people have no objection we could just add that in and
4 make the current e) f) or something like that. But is
5 there any -- first of all, I want to just see if anyone
6 has any concerns or questions regarding Bernie's
7 suggestion?

8 PROFESSOR CAPRON: Bernie, would it possible
9 to have the wording brought into line with the language of
10 d) and new f)? That is to say the phrase -- oh, I see it
11 is in line with d) and it is f) that is not consistent.

12 DR. SHAPIRO: Yes.

13 DR. LO: The f) should be something about to
14 permit as opposed to provide.

15 DR. SHAPIRO: Let me read it. I have got it.
16 I am sorry. I will pass this along. I thought other
17 people had it.

18 The new e) is "To permit coded or identified
19 use of their biological material for studies relating to
20 the condition for which the sample was originally
21 collected."

22 It is simply another specific option to add

1 which Bernie feels is helpful and I agree with that that
2 it really would be helpful to note this. I have a copy
3 here also.

4 But then if people are satisfied we will
5 include that as e) and then we will go to f) and see where
6 we are on f).

7 PROFESSOR CAPRON: Again just for
8 clarification, the existing d) says, "...for one
9 particular study only..." Would it be helpful just to
10 underline here that what you are saying is for all studies
11 or any studies relating to --

12 DR. LO: That is --

13 (Simultaneous discussion.)

14 PROFESSOR CAPRON: The emphasis.

15 DR. SHAPIRO: Would you like "any?" By the
16 way it says the same thing. We should not talk about that
17 one.

18 PROFESSOR CAPRON: So it is going to be "any
19 study?"

20 DR. SHAPIRO: Yes.

21 PROFESSOR CAPRON: Or "any study."

22 DR. SHAPIRO: Right. I will leave this with

1 you. Okay.

2 Thank you, Bernie. That is very helpful.

3 Let's go on to what is now f). Quite aside
4 from the grammar here that is to put -- or the vocabulary
5 -- excuse me, "to permit" I guess is a good way to put it
6 here. This is an issue we discussed last time and there
7 was some discussion but clearly the overwhelming majority
8 of the commission wanted f) to -- what is now f) to read
9 exactly as it reads right now but is there any further
10 conversation about this?

11 Yes, Bette?

12 MS. KRAMER: I think I was actually one of the
13 people who proposed that but I have been thinking reading
14 this text that Bernie provided with the new 7.e), I would
15 like to ask a question of those who do research, and that
16 is that -- is that providing too much leeway for
17 researchers? Should a person actually give that broad an
18 authorization?

19 DR. SHAPIRO: Well, this is exactly the issue
20 we discussed in which there was some disagreement,
21 including my own disagreement, but I was in a very small
22 minority at least in our last discussion on this and so

1 this was not a matter of a huge --

2 MS. BACKLAR: No.

3 DR. SHAPIRO: -- it was not a huge issue for
4 me so it goes here but if there is any further discussion
5 we could deal with that. That was exactly the issue we
6 discussed.

7 Steve?

8 MR. HOLTZMAN: It may be useful just to see
9 where people are at.

10 DR. SHAPIRO: Yes.

11 MR. HOLTZMAN: My personal -- I am comfortable
12 with prospective authorization for coded uses. I am
13 uncomfortable with prospective authorization for
14 identified uses of a blanket form.

15 DR. SHAPIRO: Well, I certainly agree with
16 you. Unidentified, as you know I addressed myself on this
17 last time, I do not want to make -- Alta sent me an e-mail
18 to explain myself and I was really too busy to explain
19 myself so I said I am usually wrong.

20 PROFESSOR CHARO: I just want to understand
21 when people talk about why they do not like that option
22 whether they are saying they do not like it and would not

1 choose it for themselves or they think it is so dangerous
2 that nobody should be given the opportunity to choose it
3 for themselves.

4 PROFESSOR CAPRON: The latter.

5 DR. SHAPIRO: That is right. It is
6 unpredictable and, therefore, risky.

7 PROFESSOR CAPRON: And, therefore, not an
8 instance of anything that would amount to informed
9 voluntary consent is my view about it. The risk may be
10 small but you do not really know enough about it. You
11 cannot begin to predict what it would be and that is not a
12 circumstance it seems to me in which an investigator
13 should place or a clinician gathering material and asking
14 these -- offering these alternatives should place a
15 person.

16 DR. SHAPIRO: Larry?

17 DR. MIIKE: As I said before, I think that if
18 you look at the rest of our recommendations in this
19 report, which tightens up the whole system, that an IRB --
20 if you are going to be looking at studies where a past
21 consent was given then that consent -- the adequacy of the
22 consent has to be looked at so it seems to me there are

1 safeguards enough that I can feel comfortable with this
2 recommendation.

3 DR. SHAPIRO: All right. Let's just see. I
4 think this is an issue we discussed and I do not want to -
5 - I am sorry, Bernie. I certainly do not want --

6 DR. LO: One other point. I think there is a
7 big difference between coded and identifiable and I am
8 uncomfortable at least --

9 DR. SHAPIRO: Coded and identified, right.

10 DR. LO: Coded and identified, I am sorry.
11 And to lump them together and consent to both makes them
12 sound -- they are sort of close to each other and if we
13 are going to permit people to consent or provide
14 authorization for all future identified uses it seems to
15 me that should be a separate check off signature than the
16 coded ones just to call attention to the fact that one is
17 more riskier than the other.

18 DR. SHAPIRO: Well, let's -- since there seems
19 to be some -- at least reconsideration here, let me just
20 ask the question separately just to see how people feel
21 and just let's take a straw vote on this and use the
22 distinction that Steve used just a moment ago.

1 If we thought of f) as reading "to permit
2 prospective authorization for all future coded uses of
3 their biological material", which is I think, Steve, the
4 one you are comfortable with, how many of you would be
5 comfortable with that? That is coded. We will come to
6 identified in a minute.

7 (A show of hands.)

8 DR. SHAPIRO: And how many not?

9 (A show of hands.)

10 DR. SHAPIRO: Okay. It is still the
11 overwhelming sentiment of the commission that they feel
12 comfortable with "coded."

13 How about identified? The same issue. To
14 permit prospective authorization for all future identified
15 use of their raw material. How many are comfortable with
16 that?

17 (A show of hands.)

18 DR. SHAPIRO: Just press your mike on, Trish.

19 MS. BACKLAR: I think -- was it Bernie who
20 made the suggestion of separating it. Whoever made the
21 suggestion I thought that was a very good suggestion. So
22 I would be comfortable with this if it was a separate

1 option.

2 DR. SHAPIRO: How many would be uncomfortable
3 with this?

4 (A show of hands.)

5 DR. SHAPIRO: I think that -- let's now -- let
6 me make a suggestion here that we will -- to permit
7 prospective authorization for all future coded use of
8 their biological material is something that an
9 overwhelming majority of the commission feels comfortable
10 with. However, there is not a majority in favor of
11 identified -- the same thing, only identified.

12 Bernie?

13 DR. LO: Should we then have material in the
14 accompanying text to explain that?

15 DR. SHAPIRO: Yes, absolutely. Absolutely.
16 And I think -- just speaking for myself, it is very much
17 along the lines that Alex expressed just a moment ago.
18 That is how I felt, in fact, about the coded and
19 identified but I think that my reasoning in any case is
20 very similar to what Alex articulated a moment ago.

21 PROFESSOR CAPRON: Mr. Chairman?

22 DR. SHAPIRO: Yes.

1 PROFESSOR CAPRON: Again just asking if there
2 is anything significant about the change in the wording
3 here. This speaks of all future use. The other language
4 of the other recommendations usually speaks of research or
5 study and I am not sure what uses there would be other
6 than research or study. I mean, there is obviously the
7 development of a partial product but that might be
8 included in the research anyway. And I do not think we
9 want to create a confusion that somehow that is a yet
10 broader category and certainly my objection to it is not
11 based upon that extra breadth or lack of refinement so I
12 would suggest that we add that.

13 DR. SHAPIRO: Alta?

14 PROFESSOR CHARO: Alex, I wonder if the
15 following language would help because it parallels the
16 others: To permit coded use of their material for any
17 kind of future study.

18 DR. SHAPIRO: Yes. I think the -- I mean,
19 that sounds -- I have not thought about it carefully but
20 that sounds fine, Alta. I think there was no intention to
21 expand the category of issues which we were considering
22 here. I think that is just the language that got used.

1 So let me just summarize where we are on
2 recommendation 7. We have adopted a new subpart e) that
3 was Bernie's recommendation and f) now refers to coded
4 using language somewhat similar to what Alta suggested
5 just a moment ago.

6 Any other comments, questions, reactions, et
7 cetera, to recommendation 7?

8 Yes, Bette?

9 MS. KRAMER: Harold, I am sorry, I missed
10 this. Back on 6, this is just a textual question, on page
11 118, line 25, I was confused when I read it. What does
12 "among and among individuals" refer to?

13 DR. SHAPIRO: This is on the last line, "...in
14 different settings and among different individuals."

15 MS. KRAMER: Right.

16 DR. SHAPIRO: I will have to read the sentence
17 carefully. Let's come back. I would have to read the
18 paragraph. Just reading the sentence leaves me a little
19 stymied on it so we can come back to that. It is in the
20 text.

21 Alex?

22 PROFESSOR CAPRON: Is it your understanding

1 that as revised -- under f) we are now only going to say
2 coded.

3 DR. SHAPIRO: Right.

4 PROFESSOR CAPRON: -- that we will have at
5 that point a footnote rather than leaving this to some
6 appendix.

7 DR. SHAPIRO: Right.

8 PROFESSOR CAPRON: Which will state that
9 commissioner so and so and so and so believe that this --
10 that the option should extend to identified samples and
11 commissioner so and so and so and so believe that the
12 option should not even extend to coded samples?

13 DR. MIIKE: From my point of view it is not
14 necessary if the group wants to limit it the way it is I
15 will go along with it.

16 PROFESSOR CAPRON: Okay. Because there were
17 three or four of you who were voting for identified
18 samples.

19 DR. SHAPIRO: I would think -- let's see what
20 -- when we get to the final report, how strongly people
21 feel about it. I think we can do it a number of different
22 ways. We could either identify a disagreement without

1 naming commissioners. We could name the commissioners.
2 Let's just see when we get to the final stage.

3 PROFESSOR CAPRON: Okay.

4 DR. SHAPIRO: We will keep a note of that.

5 PROFESSOR CAPRON: Well, I would hope that
6 since we have made that change that somewhere in the
7 commentary we draw attention to the fact that
8 recommendation f) only goes as far as coded samples
9 because of the view that the risk with identified samples
10 is just too great.

11 DR. SHAPIRO: Yes. No, I agree with that
12 because that is something we have been back and forth on
13 and I will take this issue to be settled and I do not want
14 to bring it back. I may even declare any other discussion
15 out of order on this issue. But in any case I agree with
16 that comment. It is a very helpful suggestion.

17 Okay. We now move along in this report.
18 There is a section on obtaining consent in the clinical
19 setting and then there is recommendation 8, which is on
20 page 121, which is short enough so I will just read it
21 just to -- as you are thinking about it. "When informed
22 consent to the research use of human biological materials

1 is required, it should be obtained separately from
2 informed consent to the clinical procedures."

3 Comments, questions?

4 Okay. Let's go on to recommendation 9, which
5 is also meets my criteria of being short.

6 Excuse me.

7 PROFESSOR CAPRON: Wouldn't it make sense to
8 switch 8 and 7 if we say it should be obtained separately
9 and then here we are specifying what kinds of options
10 should be included in a consent form that looks forward to
11 that research use?

12 DR. SHAPIRO: I think that may be right. The
13 only reason I am hesitating is as this chapter reads now
14 there is sort of text and there is recommendation, text
15 and recommendations, and we would probably have to move
16 more than just these recommendations but I think that is
17 an interesting suggestion and we should really consider
18 it. I think that may very well work that way and we just
19 have to make the appropriate movement in the text.

20 PROFESSOR CAPRON: I see that obviously 8 and
21 9 are linked together so it would be a matter of moving 8
22 and 9 before 7.

1 DR. SHAPIRO: Right. We have to move them
2 together, right. Okay.

3 Recommendation 9 meets my criteria for brevity
4 where I can read it out so I will do so. "When seeking
5 informed consent in the clinical setting, it should be
6 made clear to subjects that refusal to consent to the
7 research use of biological materials will in no way affect
8 the quality of their clinical care."

9 Bernie?

10 DR. LO: This is a minor grammar correction
11 that needs to be made in terms of when seeking that we
12 sort of specify who is seeking rather than "it" to make it
13 undangle.

14 DR. SHAPIRO: Kathi, you have a question?

15 DR. HANNA: I just -- whenever somebody wants
16 an action --

17 DR. LO: Why don't we say "clinicians and
18 researchers should make clear."?

19 DR. HANNA: Right. I just need to know who
20 you want added in there. Thank you.

21 PROFESSOR CAPRON: How about not a dependent
22 clause at all and just say "persons seeking informed

1 consent in the clinical setting should make clear..." et
2 cetera, et cetera "...to potential subjects that their --"

3 DR. SHAPIRO: That is right. It is just to
4 identify the persons.

5 Other comments or questions regarding
6 recommendation 9?

7 Okay. We then have a number of other sections
8 which follow on this. The criteria for waiver of consent,
9 minimal risk, and so on, and that takes us all the way
10 over to page 125 where we have recommendation 10, which
11 goes from the bottom of 125 off on to 126. And that
12 recommendation concerns institution -- it starts as
13 follows: "Institutional Review Boards should, in general,
14 operate on the presumption that research on existing coded
15 samples is of minimal risk to the human subjects if..."
16 and then there is a series of clauses which I will not
17 read out loud.

18 Are there any comments or questions, et
19 cetera, regarding recommendation 10?

20 Thank you.

21 Then the chapter -- this is chapter 5 again --
22 goes on and talks about rights and welfare, and then over

1 on pages 128 and 129 there are two recommendations but on
2 128 is a recommendation 11 and it deals with the rights
3 and welfare and begins as follows: "In considering waiver
4 of consent, the term..." in quotation marks now
5 "...adversely affects the rights and welfare of human
6 subjects should be interpreted to mean that the waiver
7 does not violate any state or federal statute or customary
8 practice regarding entitlement to privacy. Considerations
9 of rights and welfare should also include an assessment of
10 the potential effects of a study that examines traits
11 commonly considered to have political, cultural or
12 economic significance to the community to which the sample
13 source belongs." That is recommendation 11.

14 Comments, questions, issues?

15 Yes, Bette, I am sorry.

16 PROFESSOR CAPRON: I have one comment.

17 DR. SHAPIRO: I am sorry.

18 PROFESSOR CAPRON: I think we mean "on the
19 community." We do not usually say "effects to the
20 community," do we? Should we specify adverse effects,
21 potential adverse effects of the study or is it -- is the
22 -- or is it significance to? Is that where the "to"

1 belongs?

2 DR. SHAPIRO: It is significance. It is the
3 issue that goes with both political and cultural as I
4 understood this. Something could be --

5 PROFESSOR CAPRON: Then "to" is correct but we
6 do not specify who the adverse effects would be on and who
7 would be adversely affected.

8 DR. SHAPIRO: Alta?

9 PROFESSOR CHARO: Actually, although I have no
10 commitment to this particular wording, I think that by
11 simply saying that we are asking -- essentially the
12 implicit thing is that the IRB is supposed to assess the
13 effects. I think we can leave it up to their common sense
14 that if the effects are benign that they are not going to
15 get worried and if the effects seem to be adverse they
16 will so we do not really need to be spelling it all out.

17 PROFESSOR CAPRON: Fine. But are we saying
18 effects on anybody in the world? Is that what we are
19 saying?

20 DR. MIIKE: No, Alex. Just the last part of
21 that sentence says that a community to which the sample
22 source belongs. It is a phrase in which -- maybe it is an

1 imperfect phrase but that is what we are trying to
2 capture.

3 PROFESSOR CHARO: I agree that the rephrasing
4 is less than felicitous. A sample source belonging to a
5 community is a little odd. We are using sample source to
6 mean an actual person. It does not read that way so it
7 sounds like a piece of tissue floating out there that
8 belongs to a community. But if we agree on the meaning
9 maybe we can scribble and try to come up with the precise
10 wording later this morning or by e-mail.

11 DR. SHAPIRO: I think the wording does need
12 some work here because I, myself, do not like this second
13 sentence. I understand the point. I have no objection to
14 the point at all. We have discussed that many times but I
15 think this does need to be reworded.

16 Alta, do you want to work on that?

17 PROFESSOR CHARO: Sure.

18 DR. SHAPIRO: And you and Kathi provide
19 something.

20 DR. MIIKE: Harold, I think in our past
21 discussions we used words like "kinship" and, you know,
22 social group or something along those lines.

1 DR. SHAPIRO: Yes.

2 DR. MIIKE: There is something in the text.

3 DR. SHAPIRO: There is something -- a number
4 of points. You are right about that, Larry.

5 Bernie, I am sorry. Did you want to say
6 something?

7 DR. LO: I think we also need to make a
8 grammatical correction to the first sentence. "In
9 considering waiver of consent, the IRB should interpret
10 the term." The phrase otherwise dangles.

11 DR. SHAPIRO: Thank you. Other comments,
12 questions on this particular recommendation?

13 Let's go on then to recommendation 12, which
14 again appears on the bottom of -- principally on the
15 bottom of page 129 with the clause going over on to page
16 130. It reads as follows: "If research using..." and
17 again we will not use identifiable here but let's not stop
18 there but "...using really coded and identified but
19 existing human biological materials is determined to
20 present minimal risk, Institutional Review Boards may
21 presume..." and so on. That is the one. I am not going
22 to read this all out at this time but let's see if there

1 are comments or questions on this recommendation.

2 Steve?

3 MR. HOLTZMAN: So my question was do we feel
4 this way about both coded and identified at least with
5 those two cases?

6 DR. SHAPIRO: Yes, that is what identifiable
7 is. That is right. And you want -- and your feeling is?

8 MR. HOLTZMAN: I am just doing a listening
9 check.

10 DR. SHAPIRO: I see. It is a listening check.

11 As written it includes both coded and
12 identified. That is how this was written, which was use
13 of the old word "identifiable."

14 Yes, Alex?

15 PROFESSOR CAPRON: Well, our long discussion
16 of this has said that for purposes of consent coded
17 samples are identifiable the same way as identified
18 samples are. Although we are getting rid of the word we
19 have not changed that concept. Since informed consent is
20 required, the question is can it be waived. And what we
21 are saying is that the presumption that it is impractical
22 to obtain consent can exist before the rules pursuant to

1 our report come out. Thereafter the usual rule that you
2 have to show impracticability ought to apply. And it
3 seems to me it makes equally good sense with coded because
4 they fit within the need for consent in the first place.

5 DR. SHAPIRO: Steve?

6 MR. HOLTZMAN: I was actually coming at it
7 from the opposite way. Should this presumption apply to
8 identified samples? That is my question. I am asking do
9 we feel that we should have this presumption even in the
10 case of identified effectively because we are saying the
11 rights and welfare and other carry the weight?

12 DR. SHAPIRO: Alta?

13 PROFESSOR CHARO: Well, Steve, I will start by
14 saying that as I had mentioned at the last meeting I was
15 in the minority in thinking that we might want to have
16 IRB's still have to pay some attention to this requirement
17 but the majority here, I think for good sensible reasons,
18 would like to make it easier to use existing collections.

19 Now I am not sure that identified, which we
20 commonly imagine to be name and address, is any more
21 practical to track down than coded where it could be a one
22 step process to get the name and address. The difficulty

1 that is typically encountered is not in identifying whose
2 sample it is but where that person is now located and how
3 to reach them.

4 So I would advocate if we are going to go this
5 way to just leave it be.

6 DR. SHAPIRO: I feel the same way and I think
7 this -- well, I would just be repeating the recommendation
8 so I will save time. So I think it should stay in. My
9 own view is it is quite satisfactory as it stands.

10 Okay. Let's go on then to the next
11 recommendation which appears on page 13 and it is as
12 follows: "The Office for Protection from Research Risks
13 should make clear to investigators and Institutional
14 Review Boards that the fourth criterion for waiver, that
15 'whenever appropriate, the subjects will be provided with
16 additional pertinent information after participation,'
17 usually does not apply to research using human biological
18 materials."

19 Comments or questions with respect to this?

20 Okay. We now go on. There are some
21 materials. The "Opt Out, Rendering Existing Identifiable
22 Samples Unidentifiable," and so on, and let's not worry

1 again about the identifiable language which is throughout
2 here and you need to have a spell check or word check
3 every time you come across this.

4 But we get then on page 134 to recommendation
5 14, which goes as follows: "When samples are to be drawn
6 from..." and of course this deals with coded and
7 identified specimens "...investigators who choose to have
8 identifiers stripped from the samples should explain to
9 the Institutional Review Board the decision not to work
10 with the samples on a coded or identified basis."

11 That is recommendation 14. Yes, Jim?

12 DR. CHILDRESS: A question. Is this a case
13 where given our earlier difficulties with identifiable we
14 just mean identified?

15 DR. SHAPIRO: This is the issue coming up
16 again and that is whether we want to distinguish here
17 between coded and identified is the question that Jim is
18 raising.

19 DR. CHILDRESS: Because we are referring to
20 them as specimens.

21 DR. SHAPIRO: Well, how do people feel about
22 that? Whether this recommendation should deal separately

1 or perhaps only, depending on one's views with identified
2 as opposed to coded and identified?

3 PROFESSOR CAPRON: Excuse me. I do not think
4 that that is actually Jim's point. Jim's point was that
5 we define -- and I have to find it. Is it in this chapter
6 again? Yes. On page 109.

7 DR. SHAPIRO: Yes.

8 PROFESSOR CAPRON: That we have two categories
9 of collections.

10 DR. SHAPIRO: Right.

11 PROFESSOR CAPRON: Unidentified and identified
12 specimens.

13 DR. SHAPIRO: Oh, I see. Specimens. Excuse
14 me.

15 PROFESSOR CAPRON: And so instead of saying
16 identifiable specimens we should simply say identified
17 specimens.

18 DR. SHAPIRO: Excuse me. I misunderstood your
19 point. I am sorry, Jim.

20 Steve?

21 MR. HOLTZMAN: And I think to make it clear if
22 we use identified specimens, investigators who choose to

1 have the identifiers stripped, and then use our term, that
2 is to use them as unlinked samples? That is what we mean,
3 right?

4 DR. SHAPIRO: Right.

5 MR. HOLTZMAN: So then I just have a technical
6 question, which people like Alta and Alex will know the
7 answer. Is the IRB currently ever in play when you have
8 got the unlinked samples. So the investigator now unlinks
9 it, it is now exempt. Does this get into where we are
10 implicitly recommending here the role of the IRB, which it
11 does not currently have?

12 PROFESSOR CHARO: It is a good catch. It is a
13 good catch. If this were a relationship simply between,
14 for example, a repository and an investigator and the
15 repository did the stripping there would be no IRB at the
16 investigator's end. There might be an IRB at the
17 repository end which is a separate issue. But you are
18 quite right.

19 PROFESSOR CAPRON: Is this something we could
20 deal with in our re-examination of recommendation 2
21 because it really is saying -- if we ended up with a 2.a)
22 or a 2.b) or --

1 DR. SHAPIRO: That is right. It would change
2 this.

3 PROFESSOR CAPRON: -- and had a process, it
4 would fit nicely into that process.

5 DR. SHAPIRO: Yes.

6 PROFESSOR CAPRON: Just the flip side of it.

7 DR. SHAPIRO: That is right. It is the other
8 side of what you discussed yesterday. Right.

9 Okay. So let's table this issue for the
10 moment and come back to that when we get back to dealing
11 with former recommendation 2. Thank you very much. That
12 is really a very helpful set of observations.

13 We then come to a section on reporting
14 research results to subjects and then come to what is now
15 recommendation 15, which is on the bottom of page 135 and
16 then goes over on to the top of the next page, followed
17 immediately by recommendation 16, 17 and 18.

18 Recommendation 15 itself goes as follows:

19 "Institutional Review Boards should develop general
20 guidelines for the disclosure of the results of research
21 to subjects and require investigators to address these
22 issues explicitly in their research plans. In general,

1 these guidelines should reflect the presumption that the
2 disclosure of research results to subjects represents an
3 exceptional circumstance. Such disclosure should occur
4 only when all of the following obtain," and then there is
5 a), b) and c). "a) the validity and clinical significance
6 is high; b) the threat to the subject's health, as
7 indicated by the research finding, is significant; and c)
8 there is readily available a course of action to prevent,
9 avoid, ameliorate, or treat the threat to the subject's
10 health."

11 Alex?

12 PROFESSOR CAPRON: What is the meaning under
13 a) of clinical significance? Do we mean -- as opposed to
14 what is discussed in b). Do we mean the validity of the
15 research findings, the reliability of the research
16 findings? I mean, what are the technical terms, those of
17 you from scientific background, that differentiate
18 different points here? It seems to me that clinical
19 significance is covered in b).

20 DR. SHAPIRO: Bernie?

21 DR. LO: I think there are a couple of issues
22 that a) and b) are trying to sort out. Clinical

1 significance is usually used as distinct to statistical
2 significance so that things could be statistically
3 significant but not clinical by meaningful because the
4 absolute difference is still small. They just had such a
5 huge number that statistically you know there is a
6 difference.

7 You could have a meaning of clinically
8 significant difference but it is on a trivial health
9 problem so that you could say whatever. You -- I am just
10 trying to -- for some reason I am blanking on it.

11 DR. SHAPIRO: I think you are --

12 DR. LO: Your serum sodium is higher but it
13 means nothing for your health.

14 PROFESSOR CAPRON: And isn't that what b) goes
15 to? That it is only findings that are significant as to a
16 threat to the subject's health, not --

17 DR. LO: Yes. I mean, you could --

18 PROFESSOR CAPRON: I am sorry. As I
19 understand it, you are saying that a) says that the
20 clinical significance of the finding has to be high and b)
21 then says "and that highly significant finding must relate
22 to a significant health effect."

1 DR. LO: Right. Right. But you could have a
2 health effect that is very ominous but the significance of
3 the finding does not -- is not solid enough that you would
4 want to go out warning people.

5 PROFESSOR CAPRON: Could we find another word
6 for "significant" in b) then?

7 DR. CASSELL: Important.

8 PROFESSOR CAPRON: Important or something
9 else.

10 DR. SHAPIRO: Yes.

11 DR. LO: No, that is not quite right.

12 DR. BRITO: If you change that then -- no,
13 because then "the threat to the subject's health is
14 significant." It sounds to me like what we need to change
15 -- let's go back to the a) and change "clinical" to
16 "statistically significant" and then discuss b) in terms
17 of clinical relevance to the patient or to the subject.

18 PROFESSOR CAPRON: What if we said --

19 DR. BRITO: Okay.

20 PROFESSOR CAPRON: -- "clinical relevance"
21 under a). Would that --

22 DR. LO: But maybe we should probably fix this

1 at a break or something.

2 PROFESSOR CAPRON: Right.

3 DR. SHAPIRO: I think as I understand the
4 discussion here, I just want to make sure I understand,
5 Bernie, we could deal with a) with -- a) could be focused
6 on the significance of the result, not having to do with
7 the clinical significance but its scientific significance;
8 b) with the issue of how it impacts the particular
9 patient's health and whether that is significant or not;
10 and so on. Maybe it would be helpful just to straighten
11 those things out. I think that is a useful idea.

12 And the word -- and we might also want to
13 think -- Bernie, maybe you could work on this during the
14 break. Significance is -- it is an easy word to use but
15 sometimes it is a confusing word to use because it means
16 different things to people. People who are statisticians
17 think of it one way. Others another way. We might be
18 stuck with the word but if there is another one it might
19 be helpful.

20 Okay. We will -- yes, Arturo?

21 DR. BRITO: Pending the wording but I am still
22 confused. Why would a research subject need to -- why

1 would an investigator be required to inform a research
2 subject of something that is statistically significant and
3 valid that is not clinically relevant to that subject?

4 DR. SHAPIRO: Well, all of these conditions
5 have to hold as I understand this recommendation. So all
6 of these.

7 DR. BRITO: Okay.

8 DR. SHAPIRO: There is the word "all" in the
9 top of the recommendation here.

10 Bernie?

11 DR. LO: I want to go back to the text that
12 preceded this on page 134 at the very beginning, line 19.
13 I am still troubled by our using "interim findings from
14 research." And as I read it, what we are really talking
15 about is that the research may not have been confirmed,
16 which to me is different than interim. So I am just
17 wondering if we could strike the interim term both there
18 and at the top of 135, line 1. We seem to be saying
19 interim results, preliminary results, and results that are
20 final enough that you publish them but that have not been
21 confirmed. I think we should stick to the latter
22 category, not interim or preliminary results.

1 DR. SHAPIRO: Any comments or questions
2 regarding that suggestion? I am only looking -- I have
3 not -- you mentioned a number of places but I am only
4 looking at line 20 right now. It does not seem to -- I
5 have no problem with deleting "interim" from there but
6 there is a number of other places you suggested, I think.
7 Am I right?

8 DR. LO: Yes. I guess I would sort of be
9 inclined to start by just striking it from all things. If
10 there is a modifier needed I would use "unconfirmed"
11 rather than "interim" or "clinically inconclusive" or
12 something.

13 DR. SHAPIRO: Okay.

14 DR. LO: Because you should not be publishing
15 at all if they are clinically inconclusive.

16 DR. SHAPIRO: Further comments or questions on
17 Bernie's thought?

18 DR. MIIKE: That is trouble if you strike
19 "interim" on the top of the next page because it is about
20 interim results. So you have to edit that paragraph.

21 PROFESSOR CAPRON: One thing to do would be
22 just to drop that phrase entirely and say that MacKay

1 writing about the development of genetic tests contends
2 that preliminary results do not yet constitute
3 information. In other words, not the action but his basic
4 contention.

5 DR. LO: Right. I mean, isn't he saying
6 "unconfirmed" again rather than "interim or preliminary?"

7 PROFESSOR CAPRON: Yes. But we will drop the
8 language, that clause --

9 (Simultaneous discussion.)

10 DR. LO: Absolutely. That is great.

11 DR. SHAPIRO: Yes. That would work.

12 Steve?

13 MR. HOLTZMAN: I do not think this is angel's
14 on a pin head. Much of the literature and the concern is
15 the distinction between research findings versus, for
16 example, approved clinical tests. So I think the issue is
17 research findings per se. Not whether they are interim,
18 conclusive, been published in Nature. As long as it is
19 still only a research finding, a research test that has
20 not gotten to the level of approved clinical test practice
21 of medicine accepted and whatnot. So at least in my
22 dealings with these things typically that is the -- can we

1 just distinguish whether it is a research test versus a
2 clinical test?

3 DR. SHAPIRO: I think there are two -- more
4 than one issue swirling around here. One is interim,
5 which on reflection I do not like that word either because
6 you can have a perfectly complete study which does not --
7 either successful or unsuccessful but it is not interim.
8 So I think the word "interim" is misleading in this
9 context, in all these contexts, I think.

10 And the issue -- there is a second issue of
11 under what conditions are we allowing disclosure according
12 to this recommendation. And as I understand it, it
13 requires, without going into a), b) and c), which might
14 need to be somewhat revisited, it requires all these
15 things to be true. That is you have your research
16 results, they are valid, you know something is of clinical
17 significance, you know it impacts this or you think it
18 impacts this patient's health, and you -- there is some
19 kind of clinical procedure to help out. It is trying to
20 be comprehensive here as I understand the recommendation
21 and so I think all these things really are covered.

22 Alta?

1 PROFESSOR CHARO: I think in addition one of
2 the reasons why it gets very confusing is that there are
3 two very different reasons why people's instinct is that
4 research material -- research findings are different. One
5 is the almost false assumption of clinical equipoise is
6 that we do not know whether a particular research
7 intervention, this is paradigmatic case here, let's say
8 testing two drugs.

9 You do not know whether the research
10 intervention is going to be better than standard therapy.
11 And often even at the beginning of the research, and
12 certainly halfway through, you will have a very strong
13 suspicion as to whether or not the research drug is going
14 to be better than standard therapy but you still act as if
15 you genuinely do not know, which is why you could still
16 have a purely randomized placebo control trial, et cetera.
17 So part of it is that we pretend that we do not really
18 know if the research results are any good but sometimes we
19 know that they are.

20 And the second has to do with the relationship
21 between the investigator and the subject, which is
22 different than the relationship between a doctor and a

1 patient, and these tests are being done not with the
2 patient's interests in mind but they are being done with
3 the investigator's needs in mind consistent with the
4 protection of the subject's interests.

5 And the combination of those leads us, I
6 think, to kind of presume that you do not want to be
7 sharing the information because it is probably not good
8 information with a little asterisk that that has got a bit
9 of a phony content to it, and it was not developed for
10 this person's particular needs and uses.

11 But I thought that the three criteria that
12 were spelled out actually seemed to be very sensible ones
13 for determining when those two assumptions did not apply
14 and we really were in the exceptional case.

15 DR. SHAPIRO: Alex?

16 PROFESSOR CAPRON: Two points. One, I think
17 this area is difficult both for the reason that Steve
18 mentioned, which was not included in your listing, and it
19 is actually, I think, more difficult than Alta suggests is
20 true of clinical trials because this -- these could be
21 materials which are being studied without any direct
22 intervention with a patient at all from whom they came.

1 DR. SHAPIRO: Right.

2 PROFESSOR CAPRON: And so we are talking not
3 about that delicate situation in which your patient is
4 really a subject and you are using him with the patient's
5 knowledge and so forth but here something that just came
6 out of the blue. So I think that that needs to come out
7 here if there is anything going to be made of the very
8 good points you just made about clinical research.

9 I am concerned, however, that actually the
10 restrictions that we give are too tight in one regard.
11 Certainly a good deal of what might be found by the kinds
12 of studies we are talking about is genetic information and
13 I think we need to broaden b) and c) to recognize that the
14 threat might not just be to the subject's health but the
15 health of offspring because the one bit of information you
16 might get would be something that would alter your
17 reproductive plans, although it is of no -- there is no
18 intervention for your own health. You have a disease that
19 will be fatal at the age of 45 but if this is an inherited
20 condition, which has now been discovered to have a genetic
21 locus by looking here, it is perhaps equally urgent that
22 that information -- if it is -- if it meets Steve's

1 objection that a research test does not have the same
2 process of validation that an established test has.

3 It would still be of relevance to you so that
4 both under b) and certainly under c) in which there would
5 be no action to prevent, avoid, ameliorate or treat the
6 threat to the subject's health is too narrow.

7 DR. SHAPIRO: Interesting issue. How do
8 people feel about that? I understand the point.

9 DR. MIIKE: If we are talking about
10 generational effects I need to ask the scientists over
11 here in considering there is not very clear straight
12 forward direct line evidence about this, what are we
13 really talking about if we are talking about threats to
14 generations after the subject? I mean, it seems to me we
15 get into really uncertain ground there.

16 PROFESSOR CAPRON: Well, if you are talking
17 about an autosomal dominant disorder like anything that --
18 and it is an adult onset disorder or even something that
19 is not dominant but you find the person has the allele and
20 could pass it on but certainly with a dominant disorder it
21 is not multi -- that is not multifactorial -- I mean, take
22 the discovery of the Huntington's gene. If you were doing

1 research on samples that were coded samples and you could
2 find out, the question would it be right not to reveal
3 that information on the ground that there is no treatment
4 for Huntington's disease today, there is no cure, you
5 know, it -- what we are talking about here are not -- we
6 are not saying that when these are met you must reveal it.

7 What we are saying is until these are met you
8 ought not to reveal it and, you know, the manner of -- in
9 which it is revealed and so forth is still subject to IRB
10 approval and we ask that the investigator anticipates what
11 he or she would do if such results are forthcoming.

12 DR. SHAPIRO: Steve, do you have a comment
13 about this?

14 MR. HOLTZMAN: Just for clarification, Alex.
15 You were not raising the issue of disclosure of the
16 results to a third party. You were just raising the issue
17 of what if the result could affect a choice of
18 significance to the person even if it was not a health
19 choice?

20 PROFESSOR CAPRON: Precisely.

21 MR. HOLTZMAN: Okay.

22 DR. SHAPIRO: Trish, and then Bernie.

1 MS. BACKLAR: Well, it seems to me that if
2 this is going to be a study and some consent is involved
3 that this is part of the consent process. We certainly
4 found out that people were very interested in having
5 results told to them if they were, however you want to
6 read the word, significant and important to their health.
7 And so that you are looking at this out of a context of
8 which surely there is going to be some consent in which
9 somebody says, "Yes, I would like to have results
10 disclosed to me if they are of a certain kind."

11 PROFESSOR CAPRON: I am not sure that is
12 accurate, though, is it?

13 DR. SHAPIRO: That is right.

14 PROFESSOR CAPRON: Isn't -- couldn't --
15 doesn't this apply even to a study in which there was
16 initially the view that it was impractical to contact
17 people and it is a coded sample and you end up
18 adventitiously, or because that is the point of the study,
19 finding results which are the kinds of things which people
20 ordinarily want to know like you ought to be getting
21 screening for this or that on a regular basis because we
22 found a gene linked to a disease which is preventable or

1 we found a disease that is lethal, not preventable, but
2 inheritable and you might want to know that because you
3 might decide not to have biological children and adopt or
4 something.

5 DR. SHAPIRO: I think the point is here,
6 Trish, I agree with this Alex that this covers cases where
7 consent was not necessary and was waived.

8 Bernie?

9 DR. LO: I think this is one of those
10 situations where are now getting into issues that we had
11 not really contemplated when we wrote this but I think are
12 important. There are several different situations where
13 this might occur. One is -- I think it goes back to what
14 Steve was saying -- people who knew their materials were
15 being used and actually are eager to find out information
16 even when scientists are saying, "Wait a minute. The
17 information you are seeking is not really validated. It
18 is not clinically meaningful. We think it may be more
19 confusing than helpful and we do not think it is right to
20 do it."

21 There is a whole other set of circumstances
22 that Alex has referred to where someone had no clue that

1 their materials were being used, a finding is obtained and
2 now there may be a significant threat to the health of
3 either the subjects or the offspring but there is no
4 treatment.

5 I think Huntington's is a very illustrative
6 example because most people who have -- who are in a
7 family where they're is a family history of Huntington's
8 do not actually come forward and get tested so to actually
9 go out and look them up and say, "Here is some information
10 we have that you did not even know we were in the process
11 of possibly obtaining and we want to give it to you," may
12 be regarded by some as an imposition.

13 All the literature talks about a right not to
14 know and I think we need to distinguish here between
15 subjects who know their research subjects and have a high
16 need for information and they exceed the willingness of
17 scientists to provide it because of concerns about
18 validity versus sort of seeking out people who are
19 unwitting or unknowing subjects at least because of the
20 exemption requirements and sort of thrusting information
21 on them that many people in that situation who have a
22 choice do not choose to seek out.

1 And so all that, I think, gets swallowed up in
2 these discussions and maybe we need to start unpacking
3 some of that because I could agree with Steve's situation
4 but I am very reluctant to go seeking out people whose
5 only recourse is a reproductive decision. They may not --
6 they may well -- I mean, the statistics are many of them
7 do not choose to get that information.

8 PROFESSOR CAPRON: But I want to emphasize
9 that what we are talking about here are the criteria that
10 have to be met before you could do that. 16, 17 and 18,
11 it seems to me, really speak to what you are talking about
12 because it might very well be that the IRB would say the
13 proper contact would be a contact which would
14 preliminarily simply say we have done a study on your
15 cells.

16 "The results seem to us significant enough
17 that we have taken a great deal of effort now to contact
18 you to let you know that we have such results. Do you
19 wish us to provide this information to you, to your
20 physician or to no one, you know." And we can have a sort
21 of back and forth dialogue in which you probe the kind of
22 information and decide whether or not you want to know it

1 or you want to not know it.

2 In other words, it is not a matter of a call
3 in the middle of the night saying, "Hey, we found out you
4 have the Huntington's gene."

5 MS. BACKLAR: But this is the whole point of
6 c) that there must be readily something that you can do
7 about it.

8 PROFESSOR CAPRON: Right. And I was simply
9 asking that we think about language, whether it is to the
10 subject's health or the health of offspring or whatever,
11 potential offspring, or something that takes into account
12 that one of the things that at least some people who have
13 available to them this kind of information do seek is
14 information that would be relevant to making reproductive
15 decisions and for those people to learn that you got
16 information about their health status and that that
17 information was withheld because there was no treatment
18 for them but they might have made other choices in their
19 life is what seems troubling to me.

20 And I would not want to establish criteria
21 that say, "Oh, well, the reason I did not reveal it was
22 that the National Bioethics Advisory Commission said that

1 unless there was treatment for you, I should not reveal
2 it." That is all I am saying.

3 DR. SHAPIRO: Okay. Just a few more comments
4 and then we are going to have to move on.

5 Alta, then Steve, and Arturo.

6 PROFESSOR CHARO: I appreciate the distinction
7 that is being drawn here but I am finding myself not
8 agreeing with a few things that seem to be floating in.
9 With regard to, first, the category of people who
10 originally personally consented to participation in
11 research, the ones that are being discussed in 16 and 17,
12 there was a suggestion raised at some point that they
13 might be entitled to negotiate essentially the receipt of
14 information even when the information is not considered to
15 be very good information. And I am uncomfortable with
16 that but I definitely heard it. I forget from exactly
17 whom.

18 And I am uncomfortable with it because I can
19 understand in the context of a doctor-patient relationship
20 some degree of negotiation over the terms of that
21 relationship but even there, there is an absolute
22 threshold of medically appropriate that is used as a

1 baseline for what patients will be able to negotiate to
2 receive. And I think in research they have even less of a
3 call on these results.

4 In the context of those who have never been
5 contacted and never given consent, I appreciate the
6 dilemma that is creating. I mean, the case that I think
7 of actually as paradigmatic is not even Huntington's, it
8 would be things like apo-E in which there is no diagnostic
9 test as Kathi was pointing out to me in notes.

10 In the course of developing a diagnostic test
11 where there is no existing gold standard you are
12 invariably going to have stages of research in which you
13 have preliminary kinds of findings where it is looking at
14 correlation with an important disease, Alzheimer's that
15 has life changing consequences but maybe does not fall
16 under threat to the subject's health.

17 I mean, I do not know, you may want to change
18 the word to "importance" or whatever.

19 But I would like nevertheless to keep this
20 fairly narrow and to keep the circumstances under which
21 investigators feel compelled to go back to people fairly
22 narrow because -- and this is purely anecdotal. It has

1 been my personal experience from a decade on an IRB that
2 investigators want to go back much more often than an IRB
3 would like them to. Our experience has been that
4 investigators are so excited by their findings and so
5 convinced that these are important findings that they want
6 to share them with people and perhaps are over-estimating
7 the importance they might have in people's lives and
8 under-estimating the disruptive effects.

9 So I would like to urge that we keep these
10 criteria kind of narrow and that the alternative to going
11 back to people individually is going to be if the research
12 is intriguing that with its publication comes the next
13 stage for kind of open call for people to volunteer for
14 additional testing in which they do have a chance to
15 consent and knowingly accept results that are as yet not
16 gold standard quality.

17 DR. SHAPIRO: Steve?

18 MR. HOLTZMAN: While sympathetic to the
19 thought Alex is putting on the table that there can be
20 findings of importance, I actually would like to come down
21 with Alta and that is to keep it narrow but the real
22 animus behind this is more or less the Hippocratic Oath.

1 You find out something where you can help the person
2 medically and you just cannot stand by and not do
3 anything.

4 We find out many things in our studies that
5 someone might consider important. It is not a question of
6 it being just inconclusive. You can tell paternity. All
7 right. That probably is important to a person. We do not
8 go back and say, by the way, we learned something about
9 your paternity. That is not the animus of it. As much as
10 I can see your thought behind it, Alex, but the animus is
11 something different here, and I would like to keep it
12 narrow.

13 DR. SHAPIRO: Arturo?

14 DR. BRITO: When I read this for the first
15 time in the revision I did not really think about it but
16 now with Alex there is a lot of anxiety that I am feeling
17 and I am not sure how much of that has to do with the
18 clinician in me so I have to put a lot more thought into
19 it but I just want to clarify something.

20 I am hearing two different suggestions from
21 Alex basically or two parts of one suggestion. And that
22 is when there is a threat to someone other than a subject

1 that is related to the subject that there is a readily
2 available course of action to be taken and the other one
3 when there is a threat to someone, another subject, when
4 there is not a readily available course of action. It is
5 like two different parts of the same thing.

6 And the first one makes -- the anxiety comes
7 from the fact what if you find out not something like
8 Huntington's, what if you found out something that could
9 be a threat to potential offspring of the subject that
10 there is a readily available course of action? Is it
11 possible, with Alta's and Steve's suggestion of keeping it
12 narrow, to include that in there somehow where we still
13 keep it narrow by including only like offspring when there
14 is a readily available course of action? You know, I
15 could think of things like studies of cystic fibrosis or
16 you find somebody has a sickle cell trait or -- and the --
17 or Tay Sachs or things like that where you can actually --
18 you know, the subject is the parent that can make an
19 informed decision about their offspring.

20 So I think somehow in there -- I have to think
21 more thoroughly through this but it is -- there is some
22 anxiety there and something we are leaving out there based

1 on what Alex said.

2 DR. SHAPIRO: Okay. Let me just say
3 something. Bernie is next on my list here. I do not want
4 to lose track of two different things here. One is we are
5 going to pay some attention to the word of a), b) and c)
6 independent of Alex's suggestion, which we will continue
7 to deal with. Right now we are going to deal -- that is
8 going to happen during the break or something like that.
9 Bernie may have already done it.

10 But in any case the -- but there is this
11 issue, which I think is really a kind of well defined
12 issue and we ought to see how we feel about it, namely
13 whether really under -- we want to expand subject's health
14 to something more than just personally involved with that
15 subject's own health but the health of those they may
16 concerned about like an offspring.

17 Bernie, then Steve.

18 MR. HOLTZMAN: But I have heard -- quickly. I
19 have heard subject's health, I have heard subject's and
20 other's health, and I have heard other important concerns
21 of the subject. There is a difference. I am trying to
22 imagine the case where I learn something about the subject

1 and it tells me something about someone else's health, not
2 their's. It is very different than it tells me something
3 that relates to a reproductive decision.

4 DR. SHAPIRO: It is the latter I think we are
5 focusing on, not the former. The former is the example
6 you gave, which is something I do not think we want to
7 deal with or recommend. So it is the narrow version of
8 what you suggested as I understand it.

9 Bernie?

10 DR. LO: My comment is along Steve's line. I
11 would just ask, probably directed to Steve here, are there
12 examples of genetic findings that would not affect the
13 subject's health but would affect the offspring's health
14 in a way that is predictable and does not depend on who
15 the mate is. I think to find a serious auto recessive
16 trait -- I do not think you can say that is going to
17 affect the offspring's health. It just depends on whether
18 the -- the partner is also a carrier. So I think that
19 really is a reproductive decision and not sort of the high
20 certainty of -- I think we are talking of both the serious
21 condition and a high likelihood of that condition
22 appearing.

1 MR. HOLTZMAN: Well, autosomal dominant.

2 DR. LO: But see but then the subject's health
3 would also be implicated.

4 DR. BRITO: Not if it is X linked. I would
5 have to think of a clear example but there are --

6 DR. LO: You are saying if you found out that
7 a woman was a carrier for --

8 DR. SHAPIRO: Bernie, do you want to speak
9 into the microphone?

10 DR. LO: I just think we may be talking
11 theoretical. I am just trying to find an example.

12 MR. HOLTZMAN: Get yourself out of genetics.
13 You could find out something about the subject which means
14 that their child probably has it as well but the subject
15 for whatever reason is not suffering the symptoms but the
16 child is likely to, if exposed, get something. There is
17 cases along those lines. You developed the immune
18 response already so you are okay but likely your kids
19 could --

20 DR. SHAPIRO: To me it seems that the issue is
21 -- well, the finding and we may very well disagree about
22 it -- but the question is whether we want to expand this

1 in some way. I think the clearest example is because it
2 might, in fact, impact their reproductive choices of an
3 individual because of knowledge that might be gained.

4 Now let's just take a straw vote on this and
5 see where we stand. How many people think -- we do not
6 have the language in front of us. Obviously that would
7 have to be worked out. -- that we ought to find some way
8 to expand this recommendation to include that possibility
9 and, of course, even -- or just leave it as it is with the
10 language changes? How many would like to at least try to
11 work out a way to expand it?

12 (A show of hands.)

13 DR. SHAPIRO: Okay. Alex, do you favor
14 expanding this or not?

15 PROFESSOR CAPRON: In favor of expanding it to
16 reproductive choices?

17 DR. SHAPIRO: Yes.

18 PROFESSOR CAPRON: Yes. I think it is a
19 matter of finding the wording that keeps it simple. I do
20 not think we should be writing a textbook on genetics and
21 infectious disease here.

22 DR. SHAPIRO: Yes.

1 PROFESSOR CAPRON: But just to recognize that
2 you have an interest in your own health and in the health
3 of your children.

4 DR. SHAPIRO: Okay. Arturo and Alex certainly
5 feel this way. Do others feel that this should be
6 expanded in that direction?

7 (A show of hands.)

8 DR. SHAPIRO: Well, why don't you try some
9 language and maybe you will convince the rest of the
10 commission or not.

11 PROFESSOR CAPRON: I wanted to know what are
12 we doing about the point that Steve raised, which I think
13 is an enormously important point, and what I want to ask
14 Steve is whether in the rewriting of a) your point would
15 be encompassed by saying something like the validity and
16 clinical relevance and reliability of the finding is
17 comparable to that from approved clinical tests.

18 I mean, the idea being that we think
19 researchers are so wonderfully smart and so forth and if
20 they come up with a research result it is wonderful but as
21 you point out, in fact, their research results may be less
22 reliable than those from approved tests and is that really

1 the bench mark that we should be aiming for here?

2 DR. SHAPIRO: Steve?

3 MR. HOLTZMAN: Well, they either have that or
4 -- in which case they are an approved test more or less
5 except for the approval process. I really think the
6 intent of the language as it was, was to say to people
7 that you are going to have to exercise judgment so just go
8 and look and before you even think about revealing
9 anything you better be pretty darn certain that the
10 validity and clinical significance, which are two
11 different things, okay, are high, are very high. All
12 right.

13 Now whether they -- where you are going to the
14 put the bar there and whether there is a gold standard and
15 whatnot is very, very different. And so I think this was
16 guidelines and guidance to IRB's. And so I do not think
17 you -- I do not really even think it has to say more than
18 it says at least under a).

19 PROFESSOR CAPRON: I think the point that you
20 made, which is not really elaborated, in the preceding
21 language should give rise to some commentary on a) to say
22 that the concern is that research findings are not likely

1 to be at that level and that the decision to go forward
2 should be based on the conclusion that these particular
3 findings are close to that -- that are comparable to that
4 level.

5 DR. MIIKE: By definition these are research
6 results. They cannot be comparable to approved tests.
7 You will never meet any standard if you put it in that
8 phrase.

9 PROFESSOR CAPRON: No. As Steve just said,
10 the kinds of results you could get would be the kind that
11 you would submit to show that the tests should be
12 approved.

13 DR. MIIKE: No.

14 MR. HOLTZMAN: No. There is a lot that will
15 go in beyond that.

16 PROFESSOR CAPRON: I recognize there are
17 technical requirements but you can have findings -- well -
18 -

19 DR. SHAPIRO: Bernie, do you have something?

20 DR. LO: Let me try some language that Arturo
21 and I have worked on and see if it comes close to these
22 concerns. a) would be scientifically valid and confirmed.

1 b) would be the finding indicates a serious and highly
2 likely threat to the subject's health, and we can leave
3 out whether it is health of others as well, but that would
4 include the notion of scientific validity and confirmed.
5 I think the highly likely threat would get at the
6 clinically -- the reliability of a test in a clinically --
7 in the clinical sense.

8 DR. SHAPIRO: Let's proceed as follows: I
9 think -- while I do not want to resolve this issue right
10 this minute because there are still some people who want
11 to think about it, maybe if we could work out with you,
12 Bernie, Arturo and Kathi, some new language. Let's look
13 at a new recommendation, a new a), b), c) if you like to
14 this and let's try to take a look at that perhaps even
15 later today some time. We will come back to it and then
16 we will have to decide obviously on what you might call a
17 reproductive choice issue that Alex has raised and we will
18 just have to decide on that issue.

19 Let's go on to recommendation 16, which reads
20 as follows: "The research protocol should describe
21 anticipated research findings and circumstances that might
22 lead to a decision to disclose the findings to a subject,

1 as well as a plan for how to manage such a disclosure."

2 Comments, questions?

3 PROFESSOR CAPRON: Just a note. Alta
4 described that a while ago as applicable to situations in
5 which there is an informed consent process in advance.
6 You did not mean that?

7 PROFESSOR CHARO: I did not mean that, no.

8 PROFESSOR CAPRON: Okay.

9 DR. SHAPIRO: Let's look at recommendation 17,
10 which follows immediately on that. "When appropriate,
11 persons should be asked whether they would be interested
12 in receiving research results if such disclosure is deemed
13 appropriate by the investigator."

14 There are a few appropriates in there but we
15 will worry about that later.

16 Steve?

17 MR. HOLTZMAN: So this is just a question.
18 With respect to the first appropriate -- okay. Well, no,
19 there was an initial recommendation was of the form the
20 person should be asked and the question was raised, well,
21 maybe you do not want to in many cases be putting that
22 even as an option in front of the people. So now we are

1 saying when appropriate. So clearly someone is
2 determining when it is appropriate to offer this option to
3 the subjects. Have we provided any guidance in that
4 respect as to who and on what basis? And is that
5 important?

6 DR. SHAPIRO: Kathi?

7 DR. HANNA: I would think that you would want
8 to maybe change it to say, "When appropriate, the
9 individual seeking consent." I mean, wouldn't that be a
10 part of the consent process?

11 DR. SHAPIRO: Alta, and then Alex.

12 PROFESSOR CHARO: Steve, I am trying to
13 remember a circumstance where it would not make sense at
14 the time you are recruiting somebody into a study to
15 simply ask would you like to receive research results that
16 are in circumstances that are deemed appropriate by the
17 investigator. Can we think of an example where you would
18 not want to ask the question?

19 MR. HOLTZMAN: You are right. The second
20 appropriate takes care of modifying the whole thing.

21 PROFESSOR CHARO: I guess at this point I
22 would be suggesting we simply start the sentence with the

1 word "persons."

2 DR. SHAPIRO: Yes. I think that would quite
3 easily. It takes care of the two appropriates.

4 DR. LO: Well, there is a problem that many of
5 these persons do not know they have become subjects --
6 their materials have been used in studies. So we have to
7 put some modifier in but there is a presumption there is
8 an interaction before the study is carried out.

9 PROFESSOR CHARO: Okay. Maybe it is simply
10 that in the text somehow this has to indicate this only
11 applies when you are actually recruiting somebody. It is
12 not the waived consent or no need for consent situation.

13 DR. LO: So it is when patients participate in
14 a study --

15 PROFESSOR CHARO: Exactly.

16 DR. LO: -- they should be asked whether --

17 PROFESSOR CHARO: Sure. And they are not
18 patients, they are subjects.

19 DR. LO: But people are being asked. They are
20 not subjects yet, they are being asked.

21 DR. HANNA: Can I ask for clarification? Is
22 it the person who is seeking consent who is supposed to

1 ask this question?

2 PROFESSOR CHARO: Yes.

3 DR. SHAPIRO: Bette?

4 MS. KRAMER: So does it appropriately belong
5 then in the section on informed consent? Is part of it
6 why it is confusing is location here?

7 DR. HANNA: We can cross reference it.

8 MS. KRAMER: Yes.

9 DR. SHAPIRO: Other comments or questions on
10 17? We will look at that issue.

11 PROFESSOR CAPRON: Do we want to have any of
12 the discussion in the text that Steve suggested that we
13 have or have you withdrawn that idea entirely? There
14 still is some concern about on what basis we might suggest
15 investigators would deem it appropriate or not to reveal
16 results. Is that just the circumstances that are covered
17 by the criteria under recommendation 15 or are there
18 additional things that a person making an appropriate
19 decision should take into account? I thought that was the
20 question, in effect, that you were raising.

21 Yes, it is a question to you. Do you -- in
22 light of your raising it you were sort of saying, well,

1 shouldn't we spell something out and the question would be
2 what would we spell out then.

3 DR. SHAPIRO: Steve?

4 MR. HOLTZMAN: In my mind 15 is covering the
5 issue of you make a discovery that is medically relevant.
6 Let me just use that short term. You have to feel like
7 you are compelled to go back. I think in 17 we are
8 dealing with maybe a broader set of issues which have to
9 do with research design and disclosure and the consent of
10 the individual.

11 Now you could have results that are not
12 medically relevant results but you could decide that it is
13 fine, that these people were participating, we know they
14 are interested, and we say at the end of the study we will
15 give you your individual results, you know, as to whether
16 you have the allele for brown or blue eyes.

17 So I think what I am struggling with here is
18 maybe the emphasis seems to be on asking the individual
19 whether they would be interested as opposed to the
20 protocol specifying and the consent specifying whether or
21 not they will have results made available to them, whether
22 or not they will have them optionally available to them.

1 I do not -- I am not being clear. I am sorry.

2 DR. SHAPIRO: I think -- let me go to Alta
3 first. I have a concern here.

4 PROFESSOR CHARO: Sorry. I did not mean to
5 cut you off at all, Harold.

6 You know, I would not like to see in the
7 course of re-examining these a move towards encouraging
8 researchers to be offering up their results to people. I
9 think it only enhances the therapeutic misconception that
10 runs throughout research. When people volunteer for
11 research and/or are paid to be in research, I think it is
12 quite appropriate to say, "You are doing this for money.
13 We are doing it to test a theory. We are not planning to
14 give you any of the results." And I would not like any of
15 this language to cut out that option for investigators.

16 I only wanted originally myself when this
17 discussion began to acknowledge that there will be
18 extraordinary circumstances, not routine, but
19 extraordinary circumstances where in the course of
20 research an investigator comes across something that he or
21 she feels absolutely must be communicated.

22 For example, they discover for the very first

1 time the presence of an infectious agent and really feel
2 compelled to go back and tell people because it is serious
3 and it is treatable, and has consequences for themselves,
4 it might have public health consequences, and those of us
5 on IRB's have all come across the occasional question
6 about whether something like that has arisen.

7 But in no way would I want us to be moving
8 toward the idea that it should be routinized and that just
9 because you are in a study you should not be routinely
10 getting the results. All right. If you really want
11 results on things you should be seeing somebody in a
12 clinical context, not in a research context. I would love
13 to keep them as distinctly separate spheres as possible.

14 DR. SHAPIRO: Bernie?

15 DR. LO: What Alta just said could get out
16 from the transcript into the text accompanying this. I
17 think that would be very helpful.

18 DR. SHAPIRO: I have the same perspective as
19 Alta does. I am really wondering about recommendation 17
20 all together myself. It seems on reflection to be a
21 problem.

22 PROFESSOR CHARO: There is a little history to

1 this. I recall -- I hope I am recalling it accurately --
2 that it began really with something about persons should
3 be allowed to refuse to receive research results. In
4 other words, that there also should be the option to say
5 even if it is in your opinion overwhelmingly important I
6 do not want to know from this. And that language was
7 changed to something seemingly more neutral of would they
8 be interested because it was perceived -- it might even
9 have been me for all I remember, on this point I am weak
10 on the history, as having kind of presupposed the right
11 answer to that question.

12 But looking at that neutral language now I
13 think actually it is encouraging an activity that should
14 be discouraged. I would love to simply -- if we are going
15 to say anything at all, that people should be allowed to
16 say I do not want to know even the most dramatic stuff.

17 DR. SHAPIRO: Well, that was along the lines
18 of the suggestion I was going to offer in a moment and
19 that is whether we ought to eliminate recommendation 17
20 and deal with the issue you have just raised, that is
21 people who just do not wish to know, in 15. But I have
22 not thought this through carefully but now I think 17

1 really is a problem. I think it raises many more -- it
2 does not solve anything I can think about and it may raise
3 some issues.

4 Bernie and then Eric.

5 DR. LO: I agree that stating 17 in a positive
6 frame is less helpful than stating it as a right to
7 decline to receive information the investigator thinks is
8 pertinent to you. But again I think we are thinking
9 primarily in the genetic context. Someone in the
10 audience, I do not know your name, told me the break
11 yesterday that if we are actually thinking about other
12 kinds of research on stored biological materials such as
13 the emerging infection example that Alta just used, I am
14 not sure there should be an opt out in a public health
15 context where there is both a serious threat to your own
16 health and to the threat of third parties in the classical
17 contagious disease sense. Now in the genetic sense they
18 should have an opt out.

19 So I think we are getting more complicated
20 here and I am just wondering if this -- if we are sort of
21 -- we are getting mired in too much detail and maybe we
22 should just strike 17 and have language that -- as Alta

1 suggested a couple of rounds ago -- that this should be a
2 rare exception because of the high likelihood that
3 findings that the researcher thinks are really terrific
4 can pan out to be a lot less and not get into sort of the
5 level of detail I think we are getting ourselves into.

6 DR. SHAPIRO: I think we are agreed that 17 is
7 a problem so we are going to have to either strike it or
8 reconsider it.

9 But, Eric, I am sorry. You had your hand up.

10 DR. CASSELL: Well, I want to vote for
11 striking it. I think Alta is correct about what the
12 presumption should be. And coming up with ideas about
13 certain infections which will threaten the whole of the --
14 I mean, there is a biology remember and so far the -- we --
15 - Ebola, hidden Ebola virus, you know, it just does not
16 make sense and it does represent a danger telling people
17 things when we do not really know what they mean or -- I
18 think we just take it out and leave what we have here,
19 which says exceptional circumstances. That is what it is
20 all about.

21 DR. SHAPIRO: Any other comments?

22 PROFESSOR CAPRON: Well, I am trying to

1 understand how what we are talking about relates to what
2 is already in 15. 15 says that the guidelines developed
3 by IRB's should presume that it is an exceptional
4 circumstance in which this information will be revealed
5 and that it should only be revealed when three or more
6 high criteria are met. Now we are dealing with -- and
7 that applies across the board.

8 Now we are coming to the case where there has
9 been a direct informed consent process with an individual
10 and the question is as part of that process should
11 individuals usually be told we are not going to reveal
12 results because they are research results to you? And if
13 that is the case, when we -- when it would be deemed
14 appropriate is really the very things we say under 15.

15 Or are we going to say, well, researchers
16 could take a somewhat different view of this and some of
17 them could offer subjects, and we ought not to preclude
18 them having that as an option. Do we accomplish that by
19 saying nothing about it and leaving it open or having some
20 discussion in the text, in the commentary?

21 I am not clear why -- I mean, there are people
22 like Bob Veatch, who take the very strong view, and it may

1 be wrong, that if someone else has data of any validity
2 about you, you should be offered the opportunity to get it
3 and also to decline it but to get it if you want it. That
4 is a very strong patient-oriented thing.

5 Now Alta says that does not apply here and it
6 might well be that we say that the person says I am not
7 going to reveal that to you. If you want that do not
8 enroll in my study.

9 There is an easy answer to that, Alta. He
10 just says that is my rule for the study. Do not enroll if
11 you want that. Go see your doctor. By the way the doctor
12 does not have a test because I have not developed it yet
13 but go see your doctor. He will give you whatever
14 information you can get under present testing methods.

15 But I am not clear that we can just sort of
16 brush off 17 and say the issue goes away. I do not think
17 the issue as to consenting subjects as opposed to people
18 who do not know this is going on just disappears.

19 DR. SHAPIRO: Alta?

20 PROFESSOR CHARO: I would like to suggest that
21 first this probably cannot be worked out until we have had
22 a chance to go back and do some writing. But, second,

1 that when we do that -- as we all attempt to do it -- that
2 we consider whether recommendation 16 offers an avenue for
3 handling this problem. 16 speaks quite specifically to
4 both situations where people were recruited knowingly,
5 where they know they were recruited and those where they
6 do not know, to the problem of anticipating circumstances
7 where you might want to go back and having a plan for how
8 to manage a disclosure.

9 And it allows an IRB on a very individualized
10 case-by-case basis to consider what is at issue here. The
11 plans are going to differ depending on whether or not
12 people know that they have been recruited. We have had
13 circumstances where we have had to send "tickle" letters
14 to people saying, "Well, so you remember that you were in
15 research years ago and from time-to-time we check with
16 people to see if they would like to be kept up-to-date
17 with those research findings. Would you want to be kept
18 up-to-date?" It was all very disingenuous.

19 We were trying to get them slowly to step
20 through a process where we could elicit from them a
21 willingness or a refusal to get specific information
22 because it turned out that what had been tests before --

1 there were sweat tests on CF -- now had genetic mutation
2 tests made available and we had information, and we did
3 not know whether or not they wanted to be told. That was
4 handled very delicately.

5 There are other circumstances where Jacob
6 Kreutzfeld, which has been an issue around the country
7 where nobody thinks it is a serious medical threat but
8 everybody knows that it can be perceived as one. And if
9 we focus our attention on how to incorporate in 16 and the
10 tests accompanying it a directive that researchers should
11 -- when dealing with people who have been recruited,
12 identify for them the problem -- you know, the likelihood
13 that research findings are going to be revealed. And for
14 many investigators the answer is going to be rarely and
15 their IRB's will encourage that.

16 And for those that have not been recruited a
17 more generic set of concerns about what the criteria are
18 and those criteria could be the same for the recruited
19 people or different but that is all individualized by the
20 IRB. It would also include then the standards for
21 revealing it, how one would deal with the IRB to decide
22 whether or not the standards have been met and then the

1 series of letters or calls that would be used to let
2 people know.

3 DR. SHAPIRO: Okay.

4 PROFESSOR CAPRON: Could we get a box here
5 with an illustrative case? I mean, if you have a
6 documented case of such a process I think it would
7 actually be informative.

8 DR. SHAPIRO: Okay.

9 PROFESSOR CAPRON: It may belong in another
10 chapter, I do not know, as an existing practice but I
11 think it would be informative.

12 DR. SHAPIRO: We are going to have to rework
13 16 and 17 and so on and their connection to each other.
14 And so we will just have to produce the new material on
15 that.

16 DR. LO: Can I just ask another question about
17 sort of when the IRB comes into play here? I mean, we are
18 sort of talking about situations where the scientist
19 thinks, "Gee, I have got results that maybe I should be
20 telling the subjects about," and these people do not even
21 know they're subjects. Is it conceivable that the IRB
22 never saw that protocol in the first place because it got

1 through on a waiver but now we want to somehow say to the
2 researcher you cannot just go back to the -- you, alone,
3 should not make the decision to recontact patients without
4 having somebody like the IRB review this process in 15 and
5 16 with you?

6 PROFESSOR CHARO: Right now, Bernie, if a
7 consent -- the consent was waived, it means an IRB had to
8 be present in the process. It means you had -- you had
9 coded or identified samples and a consent waiver. The
10 circumstance where an IRB under the current
11 recommendations has never been involved has to do with
12 unlinked or unidentified samples and for the unlinked ones
13 you could go back to the class of people but you could not
14 go back to the individuals, and that is exactly why there
15 was the beginnings of a discussion yesterday afternoon
16 about the issue of IRB involvement with unlinked samples.

17 DR. SHAPIRO: Okay. Let's go on. We will
18 have to come back and rework this group here and we will
19 try to do so.

20 Alta, at the break I will speak to you about
21 this and see if we can formulate a plan for doing that.

22 There is recommendation 18, which is a very

1 short recommendation and easy to read. "When research
2 results are disclosed to a subject, appropriate medical
3 advice or referral should be provided." I think that is
4 right. It goes in that -- these have to be reworked. I
5 mean, I do not think any of us have any objection to the
6 thought here but it has to be reworked in the context of
7 these reworked recommendations.

8 Okay. We have probably about 15 or 20 minutes
9 left here before moving on to the next part of our agenda
10 so let's see how far we can get on some of these other
11 recommendations.

12 The next section of the report deals with a
13 consideration of potential harms to other groups, et
14 cetera, and eventually we hit recommendation 19 on page --
15 19 and 20 on page 139. So let's see if there are any
16 comments or questions on 19 -- on recommendation 19.

17 Bernie?

18 DR. LO: Nineteen, I wonder if we can simplify
19 it by collapsing down coded, identified, unlinked and
20 unidentified? I mean, aren't we just trying to say that,
21 "Research using stored biological materials, even when not
22 potentially harmful to the individuals from whom the

1 samples are taken, may be potentially harmful to groups
2 associated with the individual." And just go to the last
3 sentence? So, I mean we are saying in --

4 DR. SHAPIRO: Right.

5 DR. LO: -- it can happen with code and
6 identified and saying, yes, it may happen with identified
7 and unlinked as well.

8 DR. SHAPIRO: That is right. The difference
9 in wording is trivial in those two sentences. It just
10 changes the location of words but otherwise has the same
11 -- at least that is how I read it now looking at it.

12 PROFESSOR CAPRON: The reason it was written
13 that way was originally we had only the first sentence.

14 DR. SHAPIRO: That is right.

15 PROFESSOR CAPRON: And it was pointed out at
16 the last meeting, well, but it could also --

17 DR. SHAPIRO: The obvious solution --

18 PROFESSOR CAPRON: Your solution is a better
19 one.

20 DR. SHAPIRO: Other comments or questions?

21 Thank you very much, Bernie.

22 Other comments or questions?

1 Recommendation 20. All right.

2 There is then a short section following
3 recommendation 20, which is publication and dissemination
4 of research results, and that leads to two
5 recommendations, recommendation 21 and 22 on page 140.

6 Recommendation 21: "Plans for disseminating
7 results of research on human biological materials should
8 include, when appropriate, provisions to minimize the
9 potential harms to individuals or associated groups."

10 Comments or questions on 21?

11 All right. Let's now consider 22, which in
12 the past has been something -- I am sorry. Is this on 20
13 or 21? 22. Let me just read out 22, which is the area
14 where we have had more discussion in the past.

15 "When accepting results for publication,
16 journal editors should require investigators to indicate
17 whether the research was conducted in compliance with the
18 substantive requirements of the Federal Policy for the
19 Protection of Human Subjects in Research, even if the
20 study was privately funded and exempt from the federal
21 requirements for that research."

22 That is how 22 reads now.

1 Bernie?

2 DR. LO: I would like to raise the question as
3 to whether 22 should say in addition to this that they
4 ought to publish with the study a sentence saying this was
5 or was not conducted in compliance with federal
6 requirements. I mean, right now for -- I mean, if it is
7 federally funded, many journals that I publish in require
8 you to have a sentence in your methods gets published. So
9 I am just saying it is one thing that the journal editors
10 have to know but shouldn't the readership that is reading
11 the study also know and it seems to me that would be more
12 of an incentive to researchers to comply with the regs
13 even if they technically do not have to.

14 PROFESSOR CAPRON: I would be in favor of
15 including that language in the commentary by way of
16 example that many journals require that sentence that you
17 described be present.

18 DR. LO: Should we also encourage journals
19 that now do not do it --

20 PROFESSOR CAPRON: I think we should encourage
21 it and say that is a good development. I am uncomfortable
22 going beyond the notion of this research should not be

1 published to start telling -- as part of our
2 recommendations as opposed to a comment on it, that
3 journal editors should run their magazines in some
4 particular way.

5 DR. LO: I am not saying they cannot publish
6 it but there would have to be a sentence -- there would be
7 a missing sentence that a savvy reader could look at and
8 say, "Oh, Bernie is not complying with federal regs."

9 DR. SHAPIRO: Alta?

10 PROFESSOR CHARO: Two points on this. First,
11 by its language it applies to research other than research
12 on human biological materials. This is now a general
13 recommendation for all research of any type. I actually
14 support that sentiment but I want to make sure that we all
15 really do agree that we are going to use this report as a
16 vehicle for a more generalized statement.

17 It actually could be the beginning of a
18 pattern of putting that recommendation into every report
19 and reiterating every time that no matter what the field
20 of research that we think that the journal editor should
21 help out in the unofficial extension of the common rule.
22 And like I said, I am in support of that sentiment but I

1 do think we should know what we are doing.

2 The second is that in the latter half where it
3 talks about in compliance with the substantive
4 requirements of the federal policy, I find myself wishing
5 for somewhat more precise language either to say that the
6 research was conducted -- that the research was reviewed
7 by an institutional review board.

8 In which case we can presume that they are
9 applying all their usual standards to it. Or that we say
10 that the research was conducted following independent
11 review and provided for informed consent from subjects
12 except where the research had minimal risk, which I think
13 of as being the two real kinds of central substantive
14 requirements, that is consent and independent review of
15 the federal regs.

16 But as it is it seemed to me to be a little
17 bit vague on what the journal editors need to determine
18 was done in order to qualify for having met this
19 recommendation's goals.

20 DR. SHAPIRO: Steve and then Larry?

21 MR. HOLTZMAN: I agree with the spirit of this
22 but the devil is going to lie in the details. So if you

1 are doing work with unlinked samples you do not need an
2 IRB review or with unidentified. You would not write in
3 you had it IRB reviewed, yet you are in compliance with
4 the substantive requirements.

5 PROFESSOR CAPRON: That is the reason for --

6 MR. HOLTZMAN: Yes. So I recognize that but
7 we are trying to provide some guidance as to what the heck
8 this means.

9 PROFESSOR CAPRON: Couldn't we turn to
10 commentary at that point and explain what that mean that
11 for research which, if federally funded, would be subject
12 to IRB approval, the IRB approval process, that process
13 would apply here for research that was exempted? Then it
14 would be treated in the same fashion as if it were.

15 DR. SHAPIRO: Larry?

16 DR. MIIKE: Just on the suggestion that Bernie
17 gave, I think it is more straightforward. Instead of
18 adding that thing or putting it into a commentary --
19 instead of saying that journal editors should, et cetera,
20 et cetera, just be straightforward about it and say that
21 accepted and published articles should have an indication
22 of whether it was done in compliance with the federal regs

1 and so on rather than go into this multiple step process
2 because that is the result that you want to communicate
3 out.

4 Because in order for the research to be
5 published in a journal with or without that indication,
6 they would have done what is in the current recommendation
7 now.

8 DR. SHAPIRO: Bernie?

9 DR. LO: I want to suggest that Alex's
10 comments actually be -- and Alta's be incorporated into
11 the recommendation. So what I would like to see is a
12 statement from the investigator that either the research
13 was reviewed by IRB or was exempt under the federal common
14 rule and also whether consent was obtained or whether
15 there was an exemption for that under the federal
16 guidelines. You know, it is two separate sentences but
17 not to put it into the recommendation, which just gets too
18 complicated.

19 DR. SHAPIRO: Okay. I heard something
20 different in the beginning than at the end. I think
21 substantive requirements is an understandable phrase
22 actually. And if in the commentary the committee feels in

1 the commentary we ought to identify what this means just
2 because of purposes of emphasis and reminding people what
3 these substantive requirements are, that seems perfectly
4 reasonable and that seems like a very good idea. But I
5 would not like to build that into the recommendation.
6 This is going to be a page long, this recommendation, by
7 the time we get through if we are lucky.

8 And so that I think substantive requirements
9 does work but I think we ought to have some commentary
10 regarding just what this means along the lines, Alta, that
11 you and others here have suggested.

12 On the other hand, to go to the first issue
13 that was raised, that is whether we are asking journal
14 editors not simply to inquire or require investigators to
15 indicate but whether they must publish, in a footnote or
16 any other way that they would work out, what the response
17 to that is, is an issue which we have not resolved. That
18 is Alex had one and you, Bernie, I think you had another.

19 I also am a little hesitant myself to give --
20 tell people how to run their journals and so on but this
21 is an important issue so I could see the -- I certainly
22 see the argument.

1 How do people feel about that issue? Not the
2 way we write the recommendation but the equally
3 substantive issue of whether we want to ask -- want to
4 recommend that journal editors make a note of the response
5 essentially? How do people feel? How many of you would -
6 - along with Bernie, as I understood your notion -- like
7 to require an indication in the journal itself? How many
8 feel that way?

9 (A show of hands.)

10 PROFESSOR CHARO: I am sorry. I apologize. I
11 was scribbling notes. How many feel what?

12 DR. SHAPIRO: Pay attention in class, Alta.

13 PROFESSOR CHARO: I am sorry.

14 DR. SHAPIRO: Pay attention. The question
15 here is we are trying to see how the commission feels on
16 whether we would recommend that journal editors not only
17 require people submitting articles to indicate whether
18 they follow these policies but have some way of indicating
19 the response, namely whether these policies are followed
20 or not where appropriate.

21 (A show of hands.)

22 DR. SHAPIRO: We have not got the language

1 here but I think the idea is --

2 PROFESSOR CHARO: I just raised my hand --

3 DR. SHAPIRO: Yes. You favor what?

4 PROFESSOR CHARO: That they should have --

5 DR. SHAPIRO: All those in favor of requiring
6 -- making it a more stringent requirement here say yes or
7 --

8 (A show of hands.)

9 DR. SHAPIRO: Okay. We will have to write
10 something up on this. There is some disagreement on it
11 but I think the overwhelming majority is here.

12 Kathi, do you want to write that, some
13 proposed language there for that?

14 Okay. We now have a section and we only have
15 a few minutes left this morning. Obviously we are going
16 to have to come back to some issues and I want to turn to
17 Jim before we wind up our discussion of this report
18 because there are other issues. Most importantly, chapter
19 4, which we really have not had an opportunity to read
20 carefully yet and some work continues to be done.

21 I want -- Jim had some things he would like to
22 say along those lines. Let's just look at some of these

1 remaining recommendations to see what thoughts, if any,
2 people might have on them if we can do so quickly.

3 Recommendation 23, which is on page 141, "The
4 National Institutes of Health, professional societies, and
5 health care organizations should continue and expand their
6 efforts to train investigators..." et cetera, et cetera.
7 You all know what that is. I will not bother reading it.

8 Any comments or questions or concerns?

9 Okay. Recommendation 24 is the recommendation
10 of a type we have made before. I think it is important.
11 "Compliance with the recommendations set forth in this
12 report will require additional resources. All research
13 sponsors (government, private sector enterprises and
14 academic institutions) should work together to make these
15 resources available."

16 All right. So there is no further comment on
17 that.

18 Now we come to two recommendations where it
19 might be difficult for us to have the kind of discussion
20 we want in the time we have available. We will have to
21 try to come back to that. In fact, I will not even
22 attempt to deal with 25 and 26 right now. Hopefully, we

1 might be able to carve out some time late in the day,
2 depending on our discussion, to come back to those. If
3 not, we will have to find some other ways to focus. That
4 is obviously a very important set of -- a very important
5 set of issues.

6 But let me now -- I want to give a few minutes
7 before our break to Jim to talk about chapter 4.

8 DR. CHILDRESS: We had planned, Eric and I and
9 Kathi, to do a thorough revision of chapter 4. I failed
10 to contribute my part. Eric did his part. I think not as
11 much as he wanted to as well. I think that the chapter is
12 still some distance from being where we want it to be and
13 what I wanted to do is just throw out just a few things
14 very quickly in the hope that even informally here and
15 over the Belmont session and by e-mail then we, together,
16 can begin to move the chapter a little farther along than
17 it currently is.

18 And I think the big question I have for the
19 chapter is whether we can actually get by with a
20 conceptual framework that focuses only on, on interests,
21 individual interest and group interest, or whether it is
22 already going to basically keep us from getting out what

1 we need to get. And what some of the critics have noted,
2 that this chapter might even set back the ethical
3 discussion of protection of interests if we use that
4 language of individuals and groups in this context.

5 One other preliminary point. I think that the
6 language of specter (sic) that we have that we change that
7 to philosophical because it already creates certain kinds
8 of impressions in the public mind. I do not think it is a
9 problem for us but it would create certain kinds of
10 impressions.

11 But in terms of the approach itself, I think
12 that folks know, we ended up only talking about harms and
13 let's bring all other things like all the other wrongs
14 that could be done to an individual would get subsumed
15 under harms. So we have harms to dignity. It seems to me
16 that is one thing we need to do. We need to sort out in
17 this chapter the difference between harms and wrongs that
18 could be committed.

19 Second, I think we -- if we are going to stick
20 with the interest language that we are going to have to
21 say something more about weights because here we are
22 talking about balancing and yet we just throw in almost a

1 kind of laundry list of interest and really do not provide
2 any kind of coherent approach, and some of the particular
3 parts are very superficial.

4 There would be alternative ways to go about
5 it. We could talk in terms of, for example, since this is
6 an enterprise in trying to think about public policy,
7 including professional practice in this area, talk about
8 societal and professional values, principles, rules, et
9 cetera, that set certain kinds of presumptions because it
10 is not as though we just start fresh from interest. We do
11 have rules pertaining to privacy and confidentiality that
12 already presumably embody and express certain kinds of
13 interest where we can talk about societal duties or
14 individual rights.

15 I guess the big question is how we can make
16 this chapter, and this really is a plea for input for Eric
17 and me and Kathi as we work further on this, to improve
18 the quality of ethical discourse in this chapter and --
19 this is important given the discussion we have just had --
20 to make sure that it will actually connect with and
21 further contribute to the support for the recommendations
22 that we have come up with. So, in effect, now it is

1 taking that chapter and thinking about it in and of itself
2 but also in relation to the recommendations.

3 I do not know, Eric, whether that fits with
4 your sorts of concerns, too.

5 DR. MESLIN: Absolutely.

6 DR. CHILDRESS: So if you could give us
7 feedback here and at Belmont and by e-mail then we will
8 try -- and I will try to be of more help to Eric than I
9 have been to this point.

10 DR. SHAPIRO: Okay. This is in my view the
11 biggest outstanding issue on this report and the most
12 important one so I do really want to join with Jim in
13 encouraging all of us to provide input and reflection on
14 the issues he has raised or others that you might think
15 are appropriate in dealing with those issues.

16 Do other people have page 71 missing? I have
17 page 71 so I do not know what that means about everybody
18 else. Okay. Okay.

19 We are going to take a break now. Let me
20 apologize to Dr. Marshall. We are running about 15
21 minutes late. We will have to see what additional time we
22 can carve out for this at the end of today but let's take

1 about a 15 minute break and try to reassemble at 10:30.

2 (Whereupon, a brief break was taken.)

3 DR. SHAPIRO: I would like to call this part
4 of our meeting to order.

5 It is my pleasure to welcome to our meeting
6 Patricia Marshall, who is associate professor of medicine
7 and associate director of the Medical Humanities Program
8 at Loyola University of Chicago and at the Scripps School
9 of Medicine. It is a great pleasure to welcome Professor
10 Marshall here. She is doing some work on NBAC's behalf,
11 especially regarding informed consent in different
12 cultural contexts, and I want all my colleagues on the
13 commission to know how especially appreciative we are
14 since I think Professor Marshall is here today directly
15 from Lagos, which means -- so there is -- I do not know, a
16 ten hour delay or a ten hour difference.

17 DR. MARSHALL: A million.

18 DR. SHAPIRO: A million. A million hours. So
19 thank you very much for coming and we look forward to your
20 comments.

21 DR. MARSHALL: Thank you. Where would be the
22 best place for me --

1 DR. SHAPIRO: I think it is perhaps if you --
2 could you sit? Because using the mike really makes it a
3 lot easier for everyone, if you do not mind. You could
4 pick up these things and carry them if you like.

5 CONSULTANT REPORT

6 DR. MARSHALL: I think the first thing that I
7 should say is -- and I am going to stand up for this. I
8 think the first thing that I should say to everyone is --

9 THE REPORTER: If you want to stand you --

10 DR. MARSHALL: You know what? I will sit but
11 it is just -- it is a greeting for hello to everyone and
12 welcome to everyone, and I am very happy to be here. It
13 means more than welcome. It means let's celebrate this
14 beautiful day.

15 I did just arrive from Lagos, Nigeria, last
16 night and, in fact, the time difference is not so great
17 but I was up for approximately 48 hours. I thought that I
18 was making sense last night. I left -- this morning I
19 spoke with Alta. I thought I had slept well but not
20 apparently.

21 DR. SHAPIRO: A replay of the conversation
22 indicated otherwise, right?

1 DR. MARSHALL: Exactly. So I apologize in
2 advance if my words spill over each other as I give my
3 report.

4 This morning in my brief presentation I want
5 to do two things. First, I want to review the primary
6 goals of my consultation for you and, second, I thought
7 that it would be interesting to share some of the data
8 that I have just collected in Nigeria.

9 The primary goal of my consultation is to
10 review the cultural relevance of informed consent in the
11 context of U.S. funded international research and I have
12 three specific aims.

13 The first aim is to do a fairly systematic
14 review of the nature of personhood, definitions of
15 personhood, from both a philosophical and a cultural
16 perspective. I believe that all of you were given a copy
17 of a draft outline of my final report and you can see some
18 of the issues that I will be addressing.

19 If you look on page 2 you can see some of the
20 issues that I will be addressing and the background of my
21 report, including the problem of cultural versus ethical
22 relativism. I want to look specifically at factors

1 related to informed consent in a cross-cultural context.

2 I -- and here I will be addressing especially
3 the location of decisional capacity for consent, the
4 impact of language differences, including the use of
5 interpreters. I also want to look at socioeconomic
6 influences on the informed consent process in cross
7 cultural research and, in addition, political and economic
8 issues and the implications of these for the ethical
9 review process and the application of consent.

10 Finally, in this background section, I want to
11 take a close look at the relevance of different types of
12 research methods for the consent process and ethical
13 issues that come up in international settings. It does
14 not make a difference, for example, if you are using
15 quantitative methods or qualitative methods where it might
16 be more difficult to get consent.

17 What happens when you are collecting -- when
18 you are involved in a clinical study, for example, and you
19 are collecting specimens from individuals?

20 So that will form the background of my report
21 and I would appreciate any feedback that any of you might
22 have if there are issues that you would like to see me

1 pursue that I have not included, any topics that you think
2 that I may have missed. What you have here is basically
3 an outline of what I intend to do and what I have been
4 working on.

5 The second aim of my consultation for you is
6 to report the findings of in-depth interviews that I have
7 started to conduct with U.S. researchers who are involved
8 in studies in international settings. And in my
9 interviews with these individuals I am particularly
10 interested in the challenges that they have faced in the
11 process of -- in the ethical review process for protocols.
12 What happens in that process when they are working with
13 Washington, when they are working with the ethical boards
14 in other countries and so on? And then, also, I am
15 talking with these individuals about again the application
16 of informed consent.

17 My final aim, the final aim of my
18 consultation, is to conduct a case study on the
19 implementation of a set of related studies that are being
20 conducted in Eastern Nigeria. These studies are looking
21 at the genetic and epidemiological determinants of
22 hypertension, type 2 diabetes, and breast cancer.

1 This case study has two goals really. One is
2 to work with Dr. Jeremy Sugarman, who I believe was at
3 your last meeting. As you know, Dr. Sugarman is involved
4 in -- his consultation on this initiative involves looking
5 at ethical review processes in a number of different
6 countries and the data -- some of the data that I am
7 collecting in Nigeria will be used for -- to inform his
8 consultation on general issues. So he will have nine
9 country sites instead of eight.

10 But then what you will be getting from me in
11 my report is a more specific and in-depth look at what
12 happens in a particular context with particular studies.
13 In this case, a developing country, one in which many
14 people live in abject poverty. I believe the average
15 income is \$200 a year. Does anyone know by any chance?
16 In some cases I am sure that it is less than that.

17 Nigeria is a little bit more stable right now
18 than it was several years ago but I can tell you -- I have
19 mentioned to a few people here -- when I went from Ibada,
20 an urban center, back to Lagos to go to the airport I was
21 escorted by two Nigeria policemen with submachine guns.
22 So I was driving in a small van back to the airport under

1 escort. It is very problematic to be on the roads at
2 night. There are many bandits along the roads. There is
3 a lot of corruption. People are -- basically people are
4 poor so they want your money, not necessarily your life.
5 So it is an unusual setting in which to be conducting
6 these studies on the genetic and epidemiological
7 determinants of a set of diseases.

8 One of the reasons why I was -- why I took
9 advantage of this opportunity to work on this set of
10 studies is because it gave me an opportunity to look at a
11 range of illnesses based on their severity and also based
12 on the treatments that are available for them.

13 For example, hypertension is something that
14 people live with every day. It is very much a chronic
15 disease. It is not nearly as life threatening as
16 something like breast cancer, which has a symbolic load
17 that is much more powerful. And just as in any setting in
18 the world, these two different diseases, breast cancer and
19 hypertension, various -- different resources are available
20 to treat them and people have different kinds of access to
21 those resources. So it was a beautiful opportunity, I
22 think, for me to do this -- to focus on this situation.

1 And I have to tell you I am having so much fun
2 with it even though it was -- being in Nigeria was pretty
3 intense. You can imagine.

4 DR. SHAPIRO: We will not charge you for that?

5 DR. MARSHALL: What?

6 DR. SHAPIRO: We will not charge you for all
7 that fun you are having.

8 DR. MARSHALL: Oh, we all work too hard. It
9 better be fun, part of it.

10 I think what I would like to do right now is
11 just move directly into some of the data that I brought
12 back with me from Nigeria because it will really give you
13 a sense, well, I think of two things. First of all, it
14 will give you an idea of the kind of work that I do as an
15 anthropologist. The importance that I place on letting
16 people speak for themselves, the importance I give to
17 trying as much as possible to get information verbatim.

18 So my -- the excerpts of these transcripts
19 will give you a sense of how I do my work and also I have
20 just pulled out some data that relates to issues that will
21 definitely be of interest to you. Things like, for
22 example, community consent and how that process works in a

1 situation where you have got to interface with tribal
2 chiefs and local villages.

3 Does everyone have a copy of my notes? I did
4 this last night when I came in. I knew this morning I
5 would be too tired probably to do it correctly. But you
6 can see -- and usually when I take notes -- on my diskette
7 I have -- each line is numbered so that I can refer to it
8 easily in my analysis. But when I gave the people here my
9 diskette to print the format came out differently so I
10 apologize for that. It is a little easier to refer to the
11 transcripts when you have numbers along the side but in
12 any case I think that this data will be fun for us to work
13 with.

14 In Nigeria, let me tell you very briefly, I
15 was able to speak with actually more than 25 individuals
16 but I had formal or informal discussions related to the
17 specific issues that I am concerned with, with 25 people,
18 both individually and also in group settings.

19 In my transcripts, if you look right at the
20 brief introduction you can see I have said that excerpts -
21 - these are from interviews with researchers, individuals
22 who actually have obtained informed consent, and

1 participants. I was very grateful to have the opportunity
2 to speak with three participants in these studies.

3 Usually I use a tape recorder but because of
4 the sensitivity of the topic, ethical issues in research,
5 I did not bring my tape recorder with me but I used my
6 field style of taking notes. I have a shorthand way of
7 documenting. I am pretty good at this so you can -- if it
8 is in quotes, that means it is a verbatim statement. If
9 it is in parenthesis, that means that it is paraphrase.

10 Let's go then to the first description here.
11 I was in three centers -- at three sites in Nigeria,
12 Lagos, another urban center Ibadan, which is about an
13 hour-and-a-half, two hours away from Lagos, and then a
14 small rural village called Igbora. These are -- I was
15 with primarily Yoruba people. There are three main tribal
16 peoples in Nigeria, the Ibo, the Hausa and the Yoruba. I
17 believe there are more than 250 languages in Nigeria,
18 distinct dialects, so you can see that language is a
19 definite -- represents a definite challenge to the process
20 of implementing informed consent and you will see some of
21 that in these particular transcripts.

22 Okay. April 9th. My birthday. I turned 47

1 in Nigeria. That was interesting.

2 You know what just occurred to me, also I
3 actually left in the University of Lagos Teaching
4 Hospital. Does that represent a problem in terms of
5 confidentiality if this is a public record? I did not
6 think about that, Eric.

7 DR. MESLIN: It is too late now.

8 DR. MARSHALL: It is too late. All of you --
9 all of you here will respect the confidentiality of the
10 location I am sure, right. Let me see your faces here.

11 This is not -- this first part is not an
12 interview. It is an observation of a team meeting. It is
13 part of an annual site visit and the U.S. representative,
14 his initials are R.T., he was working with the research
15 team on issues of recruitment, recruiting the control
16 sample, and also issues of informed consent. I included
17 this segment because it shows you some of the unusual
18 circumstances that you might confront.

19 For example, if you go down to R.T. in the
20 larger phrase there, the question here had to do with what
21 happens if you go to someone who has more than one wife,
22 and this is, in part, a genetic study and so, of course,

1 they are looking at family lineages or, you know, family
2 trees in relation to the expressions of disease.

3 So you go to a family and -- R.T. says, "You
4 go to a family and a man has three wives and you go to the
5 youngest. She does not have kids yet so theoretically she
6 is not genetically related." So according to our
7 requirements it is really not necessary to recruit her.
8 But you create a social problem because you see she would
9 be left out and there might be some jealousies or some
10 misunderstandings about why you would exclude the youngest
11 wife but include the older wives.

12 So we do it.

13 R.T. says, "We do it as a service. We test
14 her for diabetes." So he says to the team, "If there is a
15 perception that it will be a problem for the family if the
16 youngest one is left out then just go ahead and include
17 her." And one of the -- one of the team members, Nigerian
18 team members says, "Okay, but what about the issue of the
19 senior wife?" "The senior wife," he says, "may refuse
20 because of her age or her husband may not allow her to
21 participate because of a concern about her health, her age
22 and so on." And R.T. says, "Well, try to explain why she

1 is a better control than the younger wife. She may
2 understand why it is better to have a 60-year old rather
3 than the younger wife." But R.T. says, "No arm twisting."
4 And he said this in a very -- made a very strong
5 statement.

6 I wanted to call attention to that because of
7 the issue of implicit and explicit coercion, especially as
8 it relates to this context. So here you can see the U.S.
9 researcher is trying to give a very strong message about,
10 "Look, this is what we want. This is the type of person
11 we want to recruit to the study but, you know, no arm
12 twisting."

13 Let's go to the next interview. I am trying
14 to keep this -- I am going to go through this fairly
15 quickly because I think that some of you may have
16 questions and we can have a discussion and then you can
17 take a look at the notes more carefully on your own.

18 Okay. This is an interview with a researcher
19 and with a patient participant. I -- these really are my
20 notes. These are raw, unedited field notes that you are
21 seeing here. So it is lunch time and everyone goes out
22 for lunch but at that moment the patient shows up so I

1 stayed and talked with him and the researcher did not eat
2 lunch that day.

3 Now here I am asking about key dimensions of
4 informed consent and the researcher is speaking about this
5 and he says, "Confidentiality is very important." But he
6 says, "First, the most important thing is patient care."

7 I think this is important because what he is -
8 - you know, we think about informed -- we have this
9 template in our minds in relation to informed consent. I
10 mean, all of us here can say, you know, what is important.
11 Confidentiality, voluntary participation, comprehension
12 and, at least in my mind, those are foundational. But
13 this Nigerian researcher says, "No, the first thing is
14 that you must care about your patient," and I think it
15 speaks to the concerns that this physician has about
16 protecting individuals who are involved in his research.

17 Let's see. If you go to page 2 -- hold on a
18 second. I am going to get some water.

19 Go to the first PT. "P" stands for patient by
20 the way. When you see "PM" I am always PM for Patricia
21 Marshall. In this case PT is patient. I was asking about
22 the patient, what was the purpose of this study and the

1 patient was able to give me, I thought, a pretty clear
2 rendition of the nature of the study. He says, "Some
3 people in America are suffering from diabetes, too, and
4 they, the researchers, are trying to understand how it
5 works in families."

6 You see now, I mean, that is a -- conceptually
7 that is important because it is not just that they are
8 looking at diabetes but he understands that they are
9 interested in the expression of diabetes within families
10 and he says, "I would go to great lengths to be a
11 participant in this study to help my fellow Nigerians and
12 beyond so that the doctors understand more about what is
13 happening here."

14 And then you can see I said, "Well, what else
15 did Dr. J.N. do," and the patient described to me the
16 types of studies that would be done on him and the types
17 of procedures that would be performed on him. And then
18 the physician says, "Well, you know, the consent form has
19 all of this information and I go through it."

20 This consent form, by the way -- in the U.S.
21 the consent forms are approximately five pages long but
22 they have all been modified in Yoruba, necessarily so, for

1 a number of different reasons as we will see later.

2 Let's see. If you go down a little further
3 you can see that it -- I asked about how long it takes to
4 get consent and the physician says, "Well, it really
5 depends on who I am talking with and their ability to
6 understand."

7 I am asking the patient now about the risks
8 that he might have if he participates and you can see the
9 patient says, "Nothing will happen to me." He says, "I
10 have nothing to fear in this study."

11 I asked about how they explain genotyping.
12 When I asked the patient directly about the genetic
13 information he looked at me with a blank expression on his
14 face and the physician researcher says, "It was explained
15 but he just blocked it out," he said, "Because it is not
16 meaningful to him." And I say, "How do you explain it?"
17 And he says, "I say genes are what you inherit from your
18 mother and father and they understand that genes are what
19 you get from your mother and father to make who you are."
20 And he says to me, "If you ask him that way then he will
21 know what you are talking about."

22 And I asked then, "Well, does anybody ever ask

1 what a gene is?" And he says, "Yes." The physician says,
2 "Yes." And I say -- well, he said, "It is -- I tell them
3 that is what happens. It comes from the parents when you
4 are born." I asked the researcher, "What do you say if a
5 patient asks if this information will help them?" And the
6 researcher says -- I am at the top of page 3 now. The
7 researcher says, "I say I do not know."

8 And, again, I think that this is significant
9 here because instead of trying to run through a list of
10 benefits that the patient might get, you know, if you say
11 how is this information going to help you, this physician
12 tells his patients, "Well, I do not know." But this
13 physician also -- look at what he says. "Look," he says to
14 me, "I am in a commanding position here because I am their
15 doctor." And so many of the researchers called attention
16 to the power that they have because they are in that
17 unique relationship with these patients who are also
18 participants in their study. They absolutely understand
19 the nature of that power relationship and the implications
20 for the vulnerability of patients.

21 DR. SHAPIRO: Ms. Marshall, could I just make
22 a suggestion because we have a particular problem. I

1 should have told you about it before. We had scheduled
2 our public comment session at quarter to 11:00 and I do
3 not want to keep them waiting too long. So perhaps we
4 could deal with your presentation in two components. If
5 you could take another five minutes now and then we will
6 go to public comments and then we will come back.

7 DR. MARSHALL: That sounds great.

8 DR. SHAPIRO: Is that all right because I just
9 do not want to keep people who signed up waiting.

10 DR. MARSHALL: That sounds fine to me.

11 DR. SHAPIRO: Thank you.

12 DR. MARSHALL: You know what I would like to
13 do then just for the sake of -- just because it is
14 interesting. If you -- I want to share with you some of
15 the data on community consent. What they have to do is
16 get -- when they are working in rural villages -- is get
17 consent from the local chiefs and I was very interested in
18 how this process actually works.

19 If you go to page -- let's see -- okay. -- 6.
20 Thank you. 6. And then again there is some other data
21 later. Go to the -- kind of the middle of page 6. This
22 physician says, "To enter a community you need to carry

1 that community along with you. There are imperatives.
2 You must communicate with the chief and his council and
3 some others from the community like community leaders.
4 The individualism that exists in the West does not exist
5 here. I cannot go to a village and start doing something.
6 I need to go to the local leader and give them what they
7 need. Gifts." Usually the gifts that are given to the
8 chiefs are kola nuts or whiskey. So he makes this analogy
9 to going on a date. You know, if you go to a date in the
10 United States you bring a woman flowers and so if you go
11 to a chief in a place like Igbora or Igdire then you go
12 with kola nuts or whiskey.

13 Go to page 8. This is a part of an interview
14 that was done in Igbora and here there is a description of
15 how the -- I asked how the chief gets the information out
16 to the community itself and this excerpt deals directly
17 with that. The chief goes to the subchiefs. They go to
18 the local household heads who then communicate the
19 information to the individual families.

20 I said, "Is there any other way?" And I was
21 told, "Yes. There is a town crier who might be involved."
22 A town crier goes to as many as 20 to 30 places in the

1 neighborhood and the town crier is given an instruction
2 from the chief on what to say and the town crier will
3 carry a bell. It is a gong. He bangs the gong and people
4 come out of their houses and he makes this announcement
5 and then relies on those individuals who have heard that
6 information to spread the news around and then he will go
7 to another site in the village.

8 How is that?

9 DR. SHAPIRO: That is fine. I appreciate it
10 and I want to apologize again --

11 DR. MARSHALL: That is okay.

12 DR. SHAPIRO: -- for interrupting you,
13 especially given your great efforts to be here, but we
14 will return. I do not know what your own schedule is but
15 if you allow us, we would like to return so we can have
16 questions and so forth.

17 DR. MARSHALL: Oh, that is fine. I am fine.

18 DR. SHAPIRO: Okay. Thank you very much and
19 you are certainly welcome to remain with us.

20 DR. MARSHALL: Thank you.

21 DR. SHAPIRO: I do now want to go to the
22 public comment session. Let me just remind everyone who

1 will be participating in the public comment session the
2 rule of the commission is to try to ask everyone to
3 restrict their remarks to five minutes or less, especially
4 today since we seem to have quite a few people and we want
5 to give everyone who wishes to speak to be able to speak
6 before us. So I really would very much appreciate
7 everyone trying to stick to that time interval. When five
8 minutes is past I will have the impertinence to interrupt
9 and let you know that five minutes has past and hope you
10 will then draw your comments to a close.

11 PROFESSOR CHARO: Harold?

12 DR. SHAPIRO: Yes.

13 PROFESSOR CHARO: If I may, because I have
14 been asked to recuse myself from the stem cell discussions
15 due to my Wisconsin connection, I am going to also recuse
16 myself from this portion of the public testimony since it
17 is entirely about that topic but I did not want people to
18 feel insulted if I just walked away from the table.

19 DR. SHAPIRO: Thank you very much. I
20 appreciate that.

21 We have a list here. I hope it is in the
22 appropriate order. The first person to speak to us -- to

1 address us today is Richard Doerflinger, the National
2 Conference of Catholic Bishops in Washington, D.C., on
3 embryonic stem cell.

4 Welcome. It is very nice to have you here
5 today.

6 PUBLIC COMMENT

7 RICHARD DOERFLINGER

8 MR. DOERFLINGER: Thank you very much.

9 The Catholic Bishops of the United States
10 welcome the prospect of obtaining ethical review of recent
11 proposals for embryonic stem cell research. We think that
12 is both a timely and important task.

13 Last week, of course, a working group at the
14 National Institutes of Health discussed draft guidelines
15 for research into what the working group called
16 pluripotent human stem cells. Tragically the
17 administration has narrowed this discussion to explore
18 only research on stem cells obtained by destroying live
19 human embryos or by harvesting tissue from abortion
20 victims even though, as expressed by Dr. Michael West at
21 your own November meeting, the words "pluripotent stem
22 cells" have a much broader range and include many adult

1 stem cells.

2 The NIH has narrowed its discussion to avoid
3 what we believe is a very morally significant topic, that
4 of the less controversial alternatives to this research.

5 We urge this commission to have a more
6 expansion vision and to explore the serious moral problems
7 in these proposals, as well as the alternatives that can
8 advance medical progress without demeaning human life and
9 dignity.

10 I have a longer witness statement. I would
11 just like to summarize three points from that for you.

12 First is the significance of morally
13 acceptable alternatives. When the commission issued its
14 report on cloning human beings in 1997 I thought it made a
15 significant contribution by placing somewhat exaggerated
16 claims of embryo researchers in a broader perspective.
17 The commission said, "Because of ethical and moral
18 concerns raised by the use of embryos for research
19 purposes it would be far more desirable to explore the
20 direct use of human cells of adult origin to produce
21 specialized cells or tissues for transplantation into
22 patients." The commission even mentioned the prospect of

1 identifying methods by which somatic cells could be
2 dedifferentiated and then redifferentiated along a
3 particular path without creating a human embryo.

4 The commission's observations two years ago
5 were prophetic. The last two years have seen startling
6 advances in isolating and culturing adult stem cells and
7 even in the possibilities for dedifferentiating and
8 redifferentiating them to produce a broader array of cells
9 and tissues. Advances in the use of growth factors to
10 grow new blood vessels and nerve tissue, the use of
11 enzymes such as telomerase to immortalize useful cell
12 cultures, and other advances also offer enormous promise.

13 In our view the moral problem of encouraging
14 the destruction of human embryos for their stem cells is
15 independent of claims about their possible expected
16 benefit. We believe that ethical norms on human
17 experimentation, which forbid inflicting death or
18 disabling injury on any unconsenting individual of the
19 human species simply for the sake of benefit to others
20 applies to the human embryo and fetus.

21 Even if the commission were not to hold that
22 view, it would be of enormous moral significance that the

1 same goals may be reachable without transgressing this
2 moral and legal line, relying on the destruction of a
3 developing human life to advance medical goals.

4 Point number two, the proposal that the
5 commission make a morally substantial distinction between
6 spare and research embryos. We believe that distinction
7 cannot bear the moral significance that some have imported
8 to it. In fact, if it is wrong to create a human embryo
9 for the purpose of destructive research, that is largely
10 because destroying embryos from whatever source for
11 research purposes is itself wrong on the same grounds.

12 In short, the decision to treat a developing
13 human life as a mere object of experimental manipulation
14 is wrong. It is wrong whether planned in advance or
15 decided on later in the process.

16 As a practical matter, fertility experts have
17 testified that the distinction will be largely meaningless
18 in practice because researchers can always make more
19 embryos at the beginning of some couple's fertility work
20 ups to ensure a sufficient supply of so-called spares for
21 destructive research down the road. The NIH's efforts to
22 make that distinction in practice will likely only succeed

1 in entangling the federal government further in
2 discussions about creating and destroying human embryos.
3 Decisions in which this administration claims to want no
4 involvement.

5 The third and last point is what we believe is
6 HHS's untenable interpretation of the current statutory
7 embryo research ban which allows for the funding of
8 research that depends upon and, in fact, commissions the
9 destruction of embryos for their stem cells as long as the
10 federal funds are not used for the particular act of
11 destroying the embryo. We believe that ignores the will
12 of congress. 75 supporters and sponsors of the statutory
13 ban have already protested this misinterpretation. In
14 fact, I know of no supporter of the current law who has
15 welcomed the HHS's interpretation. Only the opponents of
16 the ban have welcomed this interpretation of the ban.

17 It violates well established principles of
18 statutory construction because the congress clearly
19 intended to ban the use of funds to create human embryos
20 but took great pains to separately ban funding of any
21 research in which human embryos are destroyed. Clearly
22 excluding any possibility that the congress intended only

1 to ban funding of a particular act of destroying an
2 embryo.

3 Even the NIH draft guidelines show in a very
4 dramatic fashion that once you begin to fund research that
5 is so-called downstream from the destruction of these
6 embryos, you end up in federal monitoring of the entire
7 process of donating and destroying the embryos. That
8 donation and destruction is an integral part of any
9 research protocol that the NIH would be funding.

10 This interpretation, also, reverses NIH's own
11 earlier practice of enforcing the embryo research ban,
12 which it has earlier enforced, to the chagrin of at least
13 one researcher by the name of Mark Hughes, to ban the use
14 of NIH funded equipment even for the analysis of genetic
15 material after a cell has been taken from an embryo.

16 And this policy also ignores the precedence of
17 earlier congressional policy on the use of fetal embryonic
18 tissue from abortions, which despite the inadequacies in
19 our view in the current law in fetal tissue, does ban any
20 influencing of an abortion decision or the timing or
21 method of an abortion to obtain tissue and certainly would
22 forbid the harvesting of tissue or the use of tissue after

1 harvesting when the harvesting is itself what destroyed
2 the embryo or fetus.

3 And finally the HHS interpretation contains a
4 new and arbitrary definition of the word "embryo," which
5 is not found in the statute and, in fact, would allow
6 researchers to engineer lethal defects in advance into
7 embryos or to use only those which are already diseased or
8 damage on the claim that this would not be embryo research
9 because those embryos could not have survived to live
10 birth. We believe that is inconsistent with what congress
11 intended and is really an effort to evade the law.

12 In short, we believe the proposed HHS policy
13 is seriously flawed on legal and scientific, as well as
14 moral grounds. To build a research policy on this
15 foundation risks discrediting NIH's legitimate research
16 goals by forging a bond between pursuit of those goals and
17 the deliberate destruction of human life. A bond which we
18 believe is entirely unnecessary. We believe this
19 commission should urge the NIH to divert its funds to stem
20 cell techniques and other promising avenues of research
21 that in no way depend upon such destruction.

22 I also have a rather substantial compendium of

1 literature on what I am describing as the promising
2 alternatives, which I would be glad to provide copies of
3 to the commission.

4 DR. SHAPIRO: Thank you. We would very much
5 appreciate copies and we already appreciate the copy of
6 your remarks that you have provided us and we will provide
7 to all the commission members.

8 I would say for anyone else in public comments
9 today, if they have any written materials today or would
10 like to supply some subsequent to today's meeting, we
11 would be very glad to distribute it to all members of the
12 commission.

13 Thank you very much for your remarks. We
14 appreciate you being here.

15 PROFESSOR CAPRON: Are you accepting any
16 questions?

17 DR. SHAPIRO: Yes. I think --

18 PROFESSOR CAPRON: One question.

19 DR. SHAPIRO: If the question and answer are
20 brief.

21 PROFESSOR CAPRON: Yes. Very brief.

22 You say at the bottom of page 3 and the top of

1 page 4 -- you make an empirical statement, Richard, that
2 fertility experts have announced that they or their
3 colleagues in the industry will easily evade. Is this
4 something which is documented?

5 MR. DOERFLINGER: There should be a three page
6 facts sheet attached to the written statement which has
7 quotes and citations from some of those.

8 PROFESSOR CAPRON: Thank you.

9 MR. DOERFLINGER: Some from the United States
10 and some from Australia.

11 To give just one example, Dr. Jonathan
12 VonBlerkon (?), who was actually commissioned to testify
13 on the scientific state of human embryology to the Human
14 Embryo Research Panel back in 1994, was asked once at a
15 public forum in which he and I were debating, "How many
16 spare embryos are there right now in the United States,"
17 and he said he was not quite sure what the number was now
18 but he was confident that whenever research was approved,
19 when funding was approved for research requiring only
20 spare embryos, he was sure that suddenly sufficient
21 numbers would appear.

22 DR. SHAPIRO: Thank you.

1 Bernie?

2 DR. LO: I would like to ask an additional
3 question. Thank you for coming and providing us with this
4 material.

5 I take it you are arguing that there are other
6 alternatives to pursue the goals of research that do not
7 involve such, in your view, morally objectionable
8 procedures.

9 MR. DOERFLINGER: Yes.

10 DR. LO: Can I ask you -- can I infer that you
11 believe the techniques to reprogram adult cells to a
12 pluripotent state would be an acceptable way to pursue the
13 sorts of therapeutic goals that people are talking about.
14 What I would like to do is ask you -- there have been
15 concerns raised that a cell that is dedifferentiated may,
16 in fact, not just be pluripotent but may be totipotent and
17 that, therefore, perhaps those cells should be considered
18 in the same way we consider embryos as having the
19 potential to develop in utero to a fetus that can be
20 delivered as a child.

21 I was -- I would be interested in your views
22 on this question of whether you can tell a

1 dedifferentiated cell is only pluripotent and not
2 totipotent because some of the ways we are trying to find
3 out would -- may, itself, violate the respect that might
4 be due those cells.

5 MR. DOERFLINGER: It is, as you know, a very
6 complicated question because I found a number of different
7 definitions even of the words "totipotent and
8 pluripotent." My understanding is that currently some
9 congressman have expressed a concern that some of this
10 research when the stem cells are cultured may lead to the
11 stem cells reaggregating and forming embryonate bodies
12 which may or may not have any sufficient characteristics
13 to actually undergo some early embryonic development. In
14 which case the culturing of the cells may run afoul of
15 federal law in some way.

16 My understanding is that when the experiments
17 have been done, for example, to allow stem cells in the
18 adult mouse to reprogram, and they have succeeded perhaps
19 in having a neural stem cell be able to produce blood
20 cells, this is a reprogramming that happens still within
21 the range of pluripotency. Nobody is talking about these
22 being put into oocytes, for example, which I think would

1 be a very significant change and that this is all along
2 the spectrum still of somatic cells even though there is
3 dedifferentiation back to the kind of pluripotency that
4 might have been obtained at the blastocyst stage or a
5 little later but that this does not involve creating a new
6 organism that would be capable of developing as an embryo.

7 Certainly the -- we do not have the objections
8 to that kind of work that we do have to the somatic cell
9 nuclear transfer work of Dr. West, which to our -- in our
10 interpretation does require first creating an embryo
11 growing into the blastocyst stage and then harvesting out
12 the stem cells.

13 DR. SHAPIRO: Dr. Cassell?

14 DR. CASSELL: Are there any moral differences
15 between embryos at all and whatever age, excess, aborted?
16 Are they all morally the same? Does anything affect their
17 moral status?

18 MR. DOERFLINGER: I think in terms of
19 fundamental dignity and rights simple membership in the
20 human species, as an organism in the human species, is the
21 only principle that is really convincing to us. There are
22 differences in the moral status of different actions one

1 might take with regard to human embryos or to humans after
2 birth. We are particularly convinced that the effort of
3 the Human Embryo Research Panel back in 1994 to try to
4 tease out that question was a failure.

5 The commission -- the panel ended up deciding
6 on a pluralistic approach in accordance with which
7 basically the question of human dignity and the question
8 of personhood was put into a circular argument. In
9 effect, certain embryos are potentially -- other people
10 after birth as well could be denied the same moral status
11 as other human beings based on whether destructive
12 research on them would have yielded medical benefits.

13 So we would make a conscious decision to grant
14 or deny the status of personhood to members of the human
15 species based on how useful it would be to be able to deny
16 that status. That seemed to us just completely circular.
17 If there is a difference between these different classes
18 of human beings, it has to be determined on objective
19 grounds and not because we really want a particular
20 answer.

21 We would say no. There is no fundamental
22 difference. There is a difference in capacity and

1 abilities. We do not believe those differences and
2 abilities and stage of development make a difference in
3 terms of the fundamental character of the right to life.

4 DR. SHAPIRO: Thank you.

5 Eric, anything else?

6 All right. Thank you very much. Once again we
7 appreciate your presence here today.

8 The next person to appear before us is Dr.
9 Edward Furton, an ethicist for the National Catholic
10 Bioethics Center in Boston, Massachusetts.

11 Dr. Furton, welcome.

12 EDWARD J. FURTON, Ph.D.

13 DR. FURTON: Thank you.

14 Our center has been in existence for over 25
15 years. We offer moral analysis on issues in medicine and
16 the progress of the life sciences to interested catholics
17 and noncatholics. My testimony here today reflects the
18 considered judgment of our staff of five ethicists at the
19 center.

20 In keeping with our intellectual tradition,
21 our center is dedicated to the unity of faith and reason,
22 to the compatibility of science and religion. Our's is a

1 tradition that supports the progress of science.
2 Catholics have contributed major scientific thinkers to
3 Western science, including Gregor Mendel, a monk and the
4 father of genetics. We are comfortable with the modern
5 evolutionary theory.

6 We do not believe that there should ever be
7 conflict between science and religion so long as they are
8 in the service of the human being.

9 Our center, also, holds that morality is
10 objective, that the good exists in nature, and that reason
11 has the task of seeking the good through reflection on
12 nature. This view is widely held. We emphatically reject
13 any claim that we bring to the public discussion the
14 specifically religious teachings of our faith. We hold
15 morality to be evident to reason.

16 We recognize that embryonic stem cells have
17 great potential for the cure of seriously debilitating
18 human diseases. We do not agree, however, that retrieving
19 these cells through the destruction of human embryos can
20 be justified on the grounds that the resulting research
21 will provide many medical and scientific benefits.

22 We do not believe that one life can be

1 expended to benefit another.

2 In the view of the National Catholic Bioethics
3 Center an individual human life comes into existence
4 immediately at fertilization. It is surely human although
5 not fully developed. From a strictly scientific
6 standpoint there would be appear to be no reason to think
7 otherwise.

8 The zygote functions as a unified organism and
9 the genetic code of the zygote possesses all that is
10 necessary for complete human development. If allowed to
11 develop the human embryo can and will become an adult
12 human being.

13 This is the basis of our opposition to the
14 destruction of human embryos for the sake of obtaining
15 pluripotent stem cells. To dissect a living human embryo
16 in order to obtain cells for experimental research
17 conjures up images of some of the worst abuses of human
18 rights within recent history.

19 We understand that not all scientists share
20 our point of view. Some hold that personal human life
21 comes into existence at a later point in the developmental
22 process though they often cannot say clearly when that is.

1 You may or may not share our outlook. You may have no
2 particular view on when human life begins. But whatever
3 your views as members of this commission and whatever the
4 views of HHS and the present administration, please
5 remember in your deliberations that millions of your
6 federal citizens hold that a human embryo is a human life
7 worthy of the protection of law. This is certainly a
8 reasonable point of view.

9 As a nation of many and diverse viewpoints,
10 the view that life begins at conception deserves the same
11 respect accorded to any other reasoned physician on this
12 very important topic.

13 The research that HHS has chosen to permit
14 with federal funding will allow the establishment of
15 permanent stem cell lines from which all future research
16 and new therapies will derive. Unlike other cell lines,
17 embryonic stem cells show the capacity for immortality.
18 If permanent stem cell lines are established that derive
19 from the destruction of human embryos, in our view all
20 future research and all derived therapies will be
21 similarly tainted. As a result of this tainted origin,
22 many Americans who have deeply held moral objections to

1 embryo destruction may choose not to receive any benefits
2 from the new research.

3 Consider what HHS is presenting to those who
4 oppose the extracting of cells from human embryos. As the
5 promising new therapies become available, these people
6 will be forced to make a choice. Either live in accord
7 with the conviction that life begins at conception or
8 alleviate the suffering of loved ones. This is a tragic
9 choice that should not be forced upon any citizen.

10 We all agree on the need to fashion the best
11 public policy for medicine and scientific research. From
12 our point of view, however, we wonder why the federal
13 government does not try to foster the kind of research
14 that is morally acceptable to all of its citizens.

15 Science is the universal instrument of reason.
16 The benefits of scientific research ought to accrue to all
17 people. Short of this possibility, however, we would at
18 least hope that the government would not support research
19 guaranteed to cause moral division among the people. Nor
20 does the rush to take stem cells from destroyed human
21 embryos seem a necessity for scientific progress. There
22 are many promising alternatives to the use of embryonic

1 stem cells regularly cited in the literature. Recent
2 research suggests that differentiated precursor stem cells
3 from a patient's own body may be more useful than
4 embryonic stem cells.

5 I understand the Journal of Science is
6 reporting that Cyrus Therapeutics of Baltimore, Maryland,
7 has isolated the mesenchymal stem cell. So new things are
8 happening every week in this area.

9 From a medical point of view, therapies
10 derived from cells such as these would not suffer the
11 disadvantage of possible immune rejection. From a moral
12 point of view they do not suffer the disadvantage of
13 coming from destroyed human embryos.

14 Thank you.

15 DR. SHAPIRO: Thank you very much. I very
16 much appreciate your comments.

17 Any questions from members of the commission?

18 Thank you for the material which you
19 distributed, also.

20 Eric?

21 DR. CASSELL: I would ask you essentially the
22 same question I asked before. Does the spare embryo that

1 is going to be thrown away have the same status as the
2 implanted embryo of the same age?

3 DR. FURTON: Yes.

4 DR. CASSELL: It does. So that there is no
5 moral difference between that and an implanted embryo?

6 DR. FURTON: No. There is no moral
7 difference.

8 DR. CASSELL: There is no moral difference
9 between the aborted embryo and the implanted embryo?

10 DR. FURTON: The aborted embryo is dead as a
11 human being. That does give it a different standing from
12 that respect.

13 DR. CASSELL: And is that relevant to this
14 issue?

15 DR. FURTON: I would say that retrieving
16 materials from a dead human being does not have the same
17 moral standing as retrieving human beings through the
18 dissection of a living human being.

19 DR. CASSELL: Okay.

20 DR. SHAPIRO: Jim?

21 DR. CHILDRESS: Could I follow up on that?

22 That suggests to me that you might be willing to draw a

1 distinction, moral assessment, of a policy that allowed
2 the use of cadaveric fetal tissue to develop these stem
3 cells as differentiated from a policy that allowed the
4 destruction of spare embryos as a part of the process of
5 obtaining the stem cells. Is that correct?

6 DR. FURTON: We would be very concerned that
7 any pressure be put upon those who provide abortions or in
8 any way -- we would be opposed to any policy that would
9 promote abortion in any way. So there is a moral
10 distinction between those two. I think practically
11 speaking from our perspective. I am not sure how much
12 difference it makes.

13 DR. CHILDRESS: Thank you.

14 DR. SHAPIRO: Thank you very much. Any other
15 questions?

16 PROFESSOR CAPRON: A question.

17 DR. SHAPIRO: Question.

18 How many of you need copies of this material?
19 Okay. We will make sure we get you some. I apologize.

20 Alex, you have a question.

21 PROFESSOR CAPRON: Well, I guess, the follow-
22 up is if there were the same sorts of protections in terms

1 of no financial inducement or no moral inducement for that
2 matter to the couples deciding that their own reproductive
3 wishes had been fulfilled and having been given the option
4 of donating the embryos for implantation with another
5 couple seeking reproductive, and having rejected that as
6 an alternative, and then being given the alternative that
7 remains is to destroy the embryos, granted that you would
8 not want them to do that, you recognize the moral
9 diversity that some people choose to dispose of spare
10 embryos.

11 If at that point the researchers could only
12 obtain an embryo which had through a process by the
13 clinic, the fertility clinic, been destroyed, that is to
14 say rendered into the same state of death as to its own
15 ability to live further as an aborted fetus, if that
16 material was still usable for research purposes and the
17 donation decision was made then again with protection
18 against any inducement to the fertility center, any
19 payment to the fertility center to enter into that
20 process, wouldn't that now dead IVF embryo be in the same
21 status as the aborted fetus as a source of transplant or
22 research material?

1 DR. FURTON: Professor Capron, your question
2 is very difficult for me to answer kind of on the fly
3 here. There are many factors involved in it.

4 I would say that the principles -- these are
5 longstanding principles that Catholics have had in place
6 for centuries. Formal and material cooperation with wrong
7 doing would come into play and I would want to sit down
8 with my colleagues, as we do all of our work together in a
9 consensus format, and consider that.

10 We would be happy to give you our opinion of
11 any model or ideas that you have along these lines. I
12 think there is a distinction between a living human being
13 and a dead human being but I think that is all I could
14 reasonably say at present on that issue.

15 PROFESSOR CAPRON: Well, if you would like to
16 follow up, I am sure we would be happy to receive an
17 addendum to your statement. The point being as I now
18 understand it, the IVF embryos are still intact at the
19 point that the researchers begin their work on them in
20 terms of extracting the cells that would become the cell
21 lines. I am just asking if it turned out that were
22 technically possible for the IVF clinic as part of its

1 process of discarding spare embryos to put them into a
2 condition where they were not viable and could not be
3 implanted and so forth, would you then consider -- and
4 will you give us your opinion then -- with your colleagues
5 on whether that would render them in the same status as an
6 aborted fetus?

7 With the clear understanding in all of this
8 that you remain skeptical about whether there can be
9 adequate protections to keep inducements over reaching
10 from existing. But it is the comparability of the status
11 of the two, not your agreement that the procedures are
12 adequate that I am interested in.

13 DR. FURTON: Though I am very skeptical about
14 the approach you are suggesting, I will try to speak with
15 you privately and get your question exactly and bring it
16 to our group.

17 PROFESSOR CAPRON: Okay.

18 DR. SHAPIRO: Thank you. I very much
19 appreciate your willingness to be responsive in that
20 respect and pass it on to your colleagues as well.

21 Larry, you have a question? Any other
22 questions? Okay.

1 Well, again, thank you very much and thank you
2 for coming down here to Charlottesville.

3 The next person who will speak to us is Dr. --
4 you will have to excuse -- I am going to mistake the
5 pronunciation -- Karen Poehailos. Is that correct?

6 DR. POEHAILOS: Poehailos.

7 DR. SHAPIRO: Poehailos. Thank you very much.
8 I really apologize for not being able to --

9 DR. POEHAILOS: That is okay. It is frequent.

10 DR. SHAPIRO: Thank you very much and welcome.

11 KAREN D. POEHAILOS, M.D.

12 DR. POEHAILOS: Thank you.

13 Good morning. I hold a doctor of science
14 degree from the University of Virginia and completed my
15 family medicine residency at the UVA health sciences
16 center here in Charlottesville. I am currently certified
17 by the American Board of Family Practice.

18 I would like to welcome the NBAC members to
19 Charlottesville and as a graduate of Mr. Jefferson's
20 university feel compelled to open with a quote from him.

21 "The care of human life and happiness and not
22 their destruction is the first and only legitimate object

1 of good government."

2 I appreciate this time to share my concerns
3 regarding embryonic stem cell research. In this instance
4 we are truly discussing the destruction of human life as
5 an object of government, as evidenced by support for this
6 with federal funding.

7 Clearly I am not a researcher in this area.
8 However, the basic principles of human development called
9 into question here are easily understood by any student in
10 the biomedical sciences, as well as by any high school
11 biology student. From the moment of fertilization a
12 zygote has all the genetic material to identify it as a
13 unique human being and is defined as such by prominent
14 human embryologists in their textbooks.

15 The progression through the stages of embryo
16 and fetus to live born infant is a continuum, though,
17 lawmakers and some ethicists seem determined to create a
18 step-like progression in order to make arbitrary
19 distinctions on the rights to constitutional protections.

20 Federal laws, which regulate the use of
21 research of fetal tissue and the use of live fetuses in
22 research, if applied to preimplantation embryos, which are

1 simply earlier on the continuum, are flagrantly violated
2 by research that is proposed.

3 The federal tissue research laws permits only
4 the use of cells obtained from a dead embryo or fetus.
5 These may be used for therapeutic purposes only as
6 safeguards ensure that the researcher avoids participating
7 in abortion and that the researcher has no effect on
8 timing, method or procedures used to terminate the
9 pregnancy.

10 How can intentionally removing the inner cell
11 mass of embryos to cause their death be consistent with
12 this? The embryo is not dead until the tissue was removed
13 via a procedure that is a direct result of the
14 researcher's needs.

15 Live fetal research laws treat the preborn
16 human as worthy of protection from the time of
17 implantation onward to the time of viability at delivery.
18 Since the unborn child is incapable of giving informed
19 consent, federally funded research involving this child is
20 permissible if it is potentially therapeutic for this
21 child or if it would not subject the child to significant
22 risk or harm.

1 Surely nobody would propose that destroying an
2 embryo by removing its inner cell mass is either
3 benefitting the embryo or that this action carries no risk
4 of harm.

5 Under these laws unborn children planned for
6 abortion are afforded the same protection as those
7 intended to be carried to term. This would predicate
8 against the use of so-called spare embryos from in vitro
9 procedures.

10 Congress addressed this lack of protection for
11 preimplantation embryos in its HHS appropriations riders,
12 most recently section 511(a). This bans the use of
13 federal funds for creating of a human embryo for research
14 purposes and bans the use of funds for research in which,
15 I emphasize, a human embryo or embryos are destroyed,
16 discarded or knowingly subjected to risk of injury or
17 death.

18 My interpretation of this, shared by members
19 of the House of Representatives in their February letter
20 to HHS Secretary Shalala, is that what is banned is the
21 funding of the research which uses them. This contrasts
22 with the HHS general counsel's interpretation, which is

1 that federal funds can be used to do research upon
2 embryonic cell lines as long as they were developed using
3 private funds.

4 The ultimate tragedy is that so much energy
5 has been expended on the most morally reprehensible method
6 of doing this potentially valuable research. Ongoing
7 development would indicate that the use of embryos to
8 obtain stem cells for research in clinical use is likely
9 unnecessary. An opinion shared by stem cell researchers,
10 including one from the NIH.

11 Recent issues of science journals have
12 described many advances in manipulating genes, stem cells
13 and organ cells to obtain the same results ethically.
14 These include the angiogenesis studies and the telomerase
15 studies referenced by Mr. Doerflinger. As well, it
16 includes culturing stem cells from placental tissue to
17 treat leukemia, creating functional bladder neo organs by
18 using (eurythelial) and smooth muscle cells in the mouse,
19 and the use of mouse neural stem cells to be transformed
20 into hematopoietic tissue, demonstrating that one need not
21 be restricted by the initial cell line.

22 Your own draft statement of April 1st of this

1 year from chapter 4 of Ethical Perspectives on the
2 Research Use of Human Biological Materials expresses my
3 position. I quote, "To ensure that patients and research
4 objects are treated respectfully as agents, not as passive
5 objects to be used for the ends of others."

6 You echo by 200 years my opening statement by
7 Mr. Jefferson that the care of human life and not its
8 destruction is the first and only legitimate object of
9 good government.

10 Thank you for your time.

11 DR. SHAPIRO: Thank you very much for being
12 here today. We would very much appreciate the opportunity
13 to distribute your statement to the commission. I do not
14 believe we have a copy.

15 DR. POEHAILOS: I will be glad to provide one.

16 DR. SHAPIRO: If you could provide it to Ms.
17 Norris, who is sitting right here, we would appreciate
18 that.

19 DR. POEHAILOS: Okay.

20 DR. SHAPIRO: Or we can get it Xeroxed, I am
21 quite sure, if that is convenient.

22 DR. POEHAILOS: Okay. That is fine.

1 DR. SHAPIRO: Are there any questions from
2 members of the commission?

3 Yes, Professor Capron?

4 PROFESSOR CAPRON: Have you studied the origin
5 of the provisions that you cite on federal research with -
6 - federally supported research with fetuses because I
7 believe that if you look at the record of the National
8 Commission the strong prohibition on anything that would
9 not be therapeutic for the fetus arose from the notion
10 that it would be improper with an abortion contemplated by
11 a woman to do tests which could be harmful to that fetus
12 precisely because the woman might change her mind and then
13 you would have harmed the child that the fetus would
14 become. And that the fact that that decision ought never
15 to be made irrevocable for the women.

16 In other words, you ought not because you have
17 agreed to be in research be in a position in which you
18 would feel morally obligated to go ahead with an abortion
19 which you changed your mind about, most people do change
20 their mind and decide not to have an abortion that they
21 thought they were going to have.

22 I think that historically explains why the

1 prohibition on nontherapeutic research on the living fetus
2 in utero was adopted but if you have looked at the record
3 and see something else I would be interested to know.

4 DR. POEHAILOS: No, I have not.

5 DR. SHAPIRO: Thank you.

6 PROFESSOR CAPRON: That does not disagree with
7 your other points. It is just on that particular
8 assertion as to the conclusion we ought to draw from that
9 as to in vitro embryos that are in the deep freeze. It
10 does not seem to me it follows the same way because they
11 are not at that point irrevocably committed by being
12 implanted.

13 DR. POEHAILOS: I might raise a point that
14 referred to the last speaker, that came to me when the
15 question about changing -- about if you had an embryo, a
16 spare embryo that was not being used, and what if you
17 could somehow change it that it then was somewhat
18 equivalent to being dead.

19 My opinion is you have killed it. If you have
20 somehow changed the embryo that would be viable if you
21 tried to implant it, whether you kill it before you do the
22 research upon it or kill it by doing the research upon it,

1 I think is arbitrary.

2 PROFESSOR CAPRON: Well, that is the
3 distinction, however, that is drawn with fetuses, which
4 are actually obviously a much more developed form of the
5 human organism and researchers are not prohibited from
6 using those fetuses for research purposes if the fetus has
7 been aborted and is dead.

8 In the same way -- I mean, it is a separation
9 and it is an insistence that there is a separation between
10 the decision that goes to the death of that organism
11 happening before any decision is made or any steps are
12 made to use it for research. It may be that it is
13 technically -- that the hypothetical that I have raised is
14 technically impossible and that you cannot destroy an IVF
15 embryo and still use it, its inner cell mass in the way in
16 which it is being done.

17 I raise it as a hypothetical but I do wonder
18 if it were possible to do that, if technically it were
19 possible, wouldn't we be on the same moral ground as we
20 are with a dead aborted fetus where our country has
21 accepted the notion that if those processes are separated
22 it is all right to use the fetal tissue for

1 transplantation or research purposes.

2 DR. POEHAILOS: I think if it is -- if the
3 embryo -- if the embryo is being -- what my impression was
4 of the initial question when it came up with the last
5 speaker was that if the embryo was going to be destroyed
6 and then used by the researcher as opposed to being
7 destroyed in the research, my feeling is that the embryo -
8 - I mean, and defined by embryology textbooks, this is not
9 having to do with my personal faith, experiences or
10 feelings on it, that embryo -- textbooks define the embryo
11 as the beginning of a unique human being. No, I do not
12 think we should be destroying frozen ones either and I do
13 not care for what purpose we are destroying them.

14 PROFESSOR CAPRON: I understand that but you
15 recognize that neither law nor broadly accepted morality
16 prohibits people from doing that now. They go to IVF
17 clinics. They produce a bunch of embryos. Some of them
18 are implanted. Some are frozen.

19 And then at some point they end their
20 reproductive process. That is to say they either have the
21 children or they have abandoned hope of having children
22 through that process.

1 They are then offered the alternative would
2 you like to give those embryos to another infertile couple
3 that has difficulty in producing an embryo? They say,
4 "No, we do not want our biological child to be born to
5 somebody else." "Then you realize the alternative is to
6 destroy them." "Yes, we do." They destroy them.

7 Now what I -- what we are asking is, if at
8 that point as they are now asked by some clinics to allow
9 the use of those embryos for research on fertility
10 purposes where they may be used as living embryos, I
11 guess, I was asking whether if the process of discarding
12 included a step which "killed" the embryo at that point.
13 You would object to that. I understand.

14 DR. POEHAILOS: Yes.

15 PROFESSOR CAPRON: I have problems with it,
16 too. But if that were the case, doesn't the end result
17 very much resemble the dead aborted fetus? And, if so,
18 shouldn't we apply the same model even if we then say the
19 model is full of problems and --

20 DR. POEHAILOS: I was going to say I question
21 the model in the first place.

22 PROFESSOR CAPRON: I understand you question

1 whether or not you can separate out the decision to have
2 an abortion and the decision to donate for research or
3 whether there will be corruption of that process but that
4 applies. I am just asking wouldn't that logically apply
5 to both?

6 DR. POEHAILOS: I would need to think about
7 that. I could add it to a statement.

8 DR. SHAPIRO: Thank you.

9 Eric, do you have a question?

10 DR. CASSELL: Yes.

11 DR. SHAPIRO: And then we ought to go --

12 DR. CASSELL: At present we allow parents to
13 consent to autopsy on their children.

14 DR. POEHAILOS: Yes.

15 DR. CASSELL: And even though in the course of
16 that autopsy some of the tissues may be used for research.

17 DR. POEHAILOS: The child is already dead.

18 DR. CASSELL: Yes, I understand that. Just
19 like the aborted fetus is already dead. At what point do
20 you think the IVF embryo that is not used is no longer
21 viable? When do you think that happens?

22 DR. POEHAILOS: I do not think it happens.

1 DR. CASSELL: You mean they are viable
2 straight through, continually viable? You have found a
3 way to keep things immortal. The IVF fetus is -- the IVF
4 embryo is not used, at what point is that embryo no longer
5 alive?

6 DR. POEHAILOS: When it can be proven that it
7 cannot develop. I am not aware of any studies where
8 someone has decided what the life span in a freezer is.

9 DR. CASSELL: I see. So you have to prove
10 that it cannot be implanted?

11 DR. POEHAILOS: Except trying to prove it
12 probably would be an ethical problem in itself but this
13 problem can go back to something far bigger than this that
14 I am sure I do not have time to go into now but basically
15 whether we should be creating these embryos in the first
16 place. That is another issue.

17 DR. CASSELL: Yes. But that is not where we
18 are, is it?

19 DR. POEHAILOS: That is not where we are.

20 DR. CASSELL: Right.

21 DR. SHAPIRO: Thank you very much. I very
22 much appreciate your statement and your responses to

1 questions. Thank you very much for taking the time to be
2 here today.

3 The next speaker is Sidney Gunst, Jr., from
4 Richmond, Virginia, also on this subject.

5 SIDNEY GUNST, JR.

6 MR. GUNST: Ladies and gentlemen, good
7 morning. I have a big problem. A life or death problem.
8 My four-year old son, Sidney -- my greatest value --
9 required open heart surgery on his aortic valve in 1996.
10 He was two-years old. It was only a temporary fix. His
11 pediatric cardiologist predicts Sidney's heart valve will
12 fail again during his teenage years. Today, his options
13 are limited to mechanical valves, animal valves, and
14 cadavers, each with their own set of potential problems.

15 Fortunately, there is a far-superior
16 alternative in sight. An alternative that could save his
17 life by making his heart as good as new. The alternative
18 is a regenerated or cloned valve. The development of such
19 a valve is now conceivable through the advancement of
20 human embryonic stem cell research.

21 Yes, I am an advocate of this research and of
22 the cloning of body parts. Why should you advocate it?

1 Becasue it promotes human life.

2 But is it ethical? If ethics is a guide to
3 the choices and actions that promote human life then the
4 answer is yes.

5 I believe there are essentially four
6 unwarranted fears driving the opposition to this next
7 advancement in medicine.

8 Fear number 1. And I have heard these
9 comments. What about evil people being cloned like in the
10 movie "The Boys from Brazil?" Evil people cannot be
11 cloned. Character is not genetic, it is chosen. Hitler
12 was evil not because of his physical characteristics but
13 because he chose to be.

14 The second fear: What about rampant
15 irresponsible cloning? No matter the form of conception,
16 whether traditional, in vitro, cloned or any future
17 method, parents have the same responsibilities. If a
18 couple gives birth to one child, or to nine of them, then
19 they are responsible for raising that child, or all nine,
20 to adulthood. If someone clones one child or 99 of them
21 they still have the responsibility to care for that child,
22 or 99 of them, just the same. What the children look like

1 is irrelevant.

2 The third fear you hear: We must not play
3 God. That seems to be the primary thing today. Nonsense.
4 We do and we must, especially in the field of medicine.
5 Every time a surgeon removes cancer from a patient rather
6 than letting him die, he plays God. Every time penicillin
7 is prescribed to combat infection, or anesthesia is
8 administered to protect a patient from suffering needless
9 pain or suffering, or a C-section is performed to ensure a
10 safe delivery, or a human organ is transplanted rather
11 than allowing nature to take its course, a doctor is
12 playing God. Now, science and reason and religion and
13 faith, the compatibility, in the case of human organ
14 transplants, 30 years ago was fought by the church.

15 It is a doctor's job to play God.

16 Historically, religionists have opposed these
17 and other medical advancements, many of which have saved
18 millions of lives, maybe even someone you love.

19 And not only must doctors play God, we all
20 play God. Every choice we make, every action we take,
21 changes the course of nature. When we cut down trees,
22 plant crops, build houses, bridges, cities, power plants,

1 computers, we are playing God. Every alteration we make
2 is an example of our playing God. This is how we survive.
3 We reshape nature to suit our needs, to sustain and
4 enhance our lives. If we did not, we would die. The
5 history of human survival is the history of man playing
6 God. It is as simple as that.

7 The last one: But we must not go too far.
8 Too far? According to what standard? The standard of
9 moral value is human life. The standard of ethics, which
10 is what we are here to discuss, is life.

11 There are only two alternatives in this
12 debate; there is no middle ground. If life is the
13 standard of moral value, then the only ethical position of
14 the Bioethics Commission is to advocate human embryonic
15 stem cell research and all the procedures that promote
16 life. The alternative is suffering and death. Where do
17 you stand?

18 I am eager to take questions and would be
19 delighted to further participate in this most vital
20 matter.

21 Thank you.

22 DR. SHAPIRO: Thank you very much. I do want

1 to remind the commissioners that I think you all have
2 copies of this statement at your places but let me see if
3 there are any questions at this time.

4 Jim?

5 DR. CHILDRESS: Thank you. I wondered in
6 terms of your global statement about religionists where
7 you were perhaps over simplifying the views in terms of
8 talking about opposition to organ transplants and so forth
9 because at least as I read the history of various
10 religious traditions in the United States, in particular,
11 there are considerably more nuances than that and many of
12 the points of opposition say to organ transplants would
13 come at the point of trying to determine brain death or
14 something like that but would not be as generally opposed
15 to progress that would promote life as your comments seem
16 to suggest.

17 Any further reflections on that?

18 MR. GUNST: You had that exact equivocation
19 from this gentleman over here in the discussion with the
20 lady preceding me regarding frozen embryos and whether
21 that was morally correct or not. This country was founded
22 on the principle of separation of church and state and

1 that -- I do not want somebody else's emotions or opinions
2 dictating the choices and rights that I have, the
3 inalienable rights that my son has to his life.

4 Now obviously my position is that life does
5 not happen at conception. That is a potential child. No
6 question about it. But it has not been individuated. It
7 is not an individual and it does not have the same rights.
8 That is the current law in this country, "Roe versus
9 Wade."

10 DR. CHILDRESS: Thank you.

11 DR. SHAPIRO: Thank you. Any further
12 questions from members of the commission?

13 Again thank you very much for being here.

14 MR. GUNST: Thank you.

15 DR. SHAPIRO: We very much appreciate your
16 views.

17 We have -- the next person who has signed up
18 to speak to us today may or may not be here at this time
19 and that is John Cavanaugh-O'Keefe.

20 Is Mr. O'Keefe, Cavanaugh-O'Keefe here?

21 DR. _____: Can he add a statement in the
22 record?

1 DR. SHAPIRO: Yes, he certainly can.

2 Thank you very much.

3 The next person is Ida Chow from the Society
4 of Developmental Biology in Bethesda.

5 Ms. Chow, thank you very much for being here
6 today.

7 IDA CHOW, Ph.D.

8 DR. CHOW: Thank you.

9 "Dear members of the commission:

10 "On behalf of the board of trustees and the
11 public information committee of the Society for
12 Developmental Biology, we should like to comment on the
13 importance of research with human pluripotent embryonic
14 stem cells and express our support for the ruling that NIH
15 funding can be used for research for such cell lines.

16 "Many diseases that exact a heavy toll on our
17 society involve damage, degeneration or functional failure
18 of cells or tissues. This list would include diseases
19 such as Alzheimer's, Parkinson's, diabetes, congestive
20 heart failure, liver diseases and many others.

21 "The possibility of treating such conditions
22 by implantation of cells with the capacity to repair the

1 damaged tissue is an exciting one that deserves to be
2 explored from all possible angles.

3 "Studies have shown that adult organs
4 contained so-called stem cells which have the capacity to
5 proliferate in culture and differentiate into a number of
6 different cell types. Indeed, such adult stem cells may
7 have a greater capacity for making different cell types
8 than previously and generally thought.

9 "Judging by a recent report suggesting that
10 stem cells obtained from the nervous system of the mouse
11 can generate blood cells after bone marrow
12 transplantation, more research on the capacity of adult
13 stem cells is clearly warranted. However, it is not clear
14 that those stem cells will ever be capable of making all
15 cell types of the body, which is the property possessed by
16 pluripotent embryonic stem cells.

17 "In a mouse, embryonic stem cell lines can
18 proliferate indefinitely in culture and can differentiate
19 into a wide variety of cell types when given the right
20 inducing signals. These properties suggest that embryonic
21 stem cells hold enormous potential for future cell based
22 therapies.

1 "The recent derivation by two groups of human
2 pluripotent stem cell lines that appear to have many of
3 the properties of mouse embryonic stem cells has brought
4 this possibility closer to realization. There are still
5 many obstacles to be overcome.

6 "We need to understand better how to regulate
7 the differentiation of stem cells into different tissue
8 lineages. Suitable modes of delivery of the cells to the
9 requisite organs need to be developed and the grafted
10 cells need to be protected from immune rejection.

11 "If the potential of stem cell research is to
12 be rapidly translated into therapeutic reality, it is
13 critical that all aspects of stem cell research, including
14 research on both adult and embryonic stem cells, in
15 nonhuman mammals and in humans, be a high priority for
16 federal funding.

17 We need more of the best scientists doing
18 world class science to move this area forward.

19 "The stringent peer review and oversight
20 mechanisms of the NIH will ensure that this occurs. We
21 support the recent ruling by DHHS and NIH that research on
22 human embryonic stem cell lines is not covered by the

1 prohibition of use of federal funds for human embryo
2 research.

3 "Mouse embryonic pluripotent stem cells cannot
4 give an embryo alone. They have to be deliberately and
5 with forethought combined with normal embryonic cells and
6 reimplanted into the uterus to contribute to a live born
7 mouse. The human embryonic cells provide vital
8 information for the development of the embryo and they
9 contribute to the placenta. It is clear that both the
10 derivation and the potential future use of human embryonic
11 stem cells raise difficult ethical issues relating to the
12 use of human embryos or fetal material for research
13 purposes.

14 "We are confident that the NIH with the
15 assistance of NBAC will set in place suitable mechanisms
16 to ensure that all research funded on human embryonic stem
17 cells abides by the highest ethical and scientific
18 standards.

19 "We are entering an exciting era in biomedical
20 research where our understanding of human genetics and
21 cell and developmental biology will soon translate into
22 real advances in our treatment of diseases. A balance

1 between ethical concerns and the potential benefits for
2 humanity must be reached so that the incredible expertise
3 and creativity of the biomedical research community can be
4 brought to bear on the task of ensuring that the full
5 potential of advances and the development of human
6 embryonic stem cells is realized.

7 "Yours truly, the Society of Developmental
8 Biology, board of trustees, public information committee
9 and executive officer."

10 Thank you.

11 DR. SHAPIRO: Thank you very much. We would
12 also very much like a copy of the statement if you would
13 not mind so that we can distribute it.

14 DR. CHOW: We sent in an earlier version but I
15 will send in this updated version plus some supporting
16 material.

17 DR. SHAPIRO: If you could that as soon as
18 possible, it would be appreciated and distributed to the
19 members of the commission.

20 DR. CHOW: Yes.

21 DR. SHAPIRO: Professor Capron?

22 PROFESSOR CAPRON: Dr. Chow, when we were

1 deliberating on our report on cloning human beings, we
2 heard from some leading developmental biologists that
3 while it would be interesting, and there would certainly
4 be some people who might be interested in doing research
5 on cloned human beings, that there was a great deal of
6 research which could be carried out in animals and not in
7 human beings and that, therefore, the kind of moratorium
8 that we urged and that the president urged would not stand
9 in the way of a great deal of progress being made that
10 probably sensibly would have to be made before one moved
11 into human beings.

12 And I wonder whether there is any way of
13 inquiring and establishing, and maybe your supplementary
14 document does this, whether or not the other avenues of
15 research in this field, using human cells that are not
16 derived directly from living human embryos, also would
17 offer for a period of time avenues of research, which if
18 they proved successful, might obviate the need ever to use
19 human embryos. And how would one go about determining
20 this?

21 I mean, it is not a question would somebody
22 find some interest in doing it? The answer is always yes.

1 But really isn't there a great deal that can be learned
2 from other animals and their embryonic and nonembryonic
3 cells and from cells, somatic cells, as opposed to
4 embryonic cells from adults?

5 DR. CHOW: Yes. First of all, I would like to
6 let you all know that the Society for Developmental
7 Biology was the society who polled its own membership
8 about the moratorium on cloning of human cells and this
9 moratorium was later adopted by the Federation of American
10 Society for Experimental Biology as well as other
11 biomedical associations.

12 So, as you see, we do have a stand on not
13 using and not cloning human beings.

14 Also, in the past hearings you have heard from
15 Dr. Bridget Hogan that many of this research is being done
16 and there is really no use to use a lot of human tissues
17 to study some of the basic questions. However, since we
18 all know different species may have different properties
19 somewhere along the line there is going to be a need to
20 use some human tissues and so although we are supporting
21 the use of human embryonic stem cells, we know the need of
22 using them, we are very cautious in the sense that they

1 should only be used once all the supporting materials and
2 supporting studies have been done prior to requesting the
3 use of human tissues.

4 And so it is not just going, "Oh, there are
5 all these extra embryos sitting around. Why don't we use
6 them." It is not that. We have to consider the real need
7 and only -- that is why we mention the high and stringent
8 standards used for peer review for the need -- that NIH --
9 and it is only achievable if federal funding is allowed
10 because otherwise it is going into private industry and
11 some private industries are very, very conscientious but
12 we cannot guarantee it for everybody. That is another
13 reason why we think the federal funding issue is going to
14 be important in really regulating the propriety and the
15 appropriate use of human tissues.

16 DR. SHAPIRO: Thank you. Larry?

17 DR. MIIKE: Let me just ask you a technical
18 question, which I assume is going to be correct, which is
19 that when one looks a pluripotent stem cells and the great
20 promise about getting very differentiated and organized
21 tissue, the research does not go in just that direction
22 but to take a look at the very differentiated tissue and

1 see how you can go backwards because that is what I
2 understand in the whole thing.

3 DR. CHOW: Right.

4 DR. MIIKE: So that part would go on
5 regardless of what happens in the political and moral
6 atmosphere that we are talking about.

7 DR. CHOW: Right.

8 DR. MIIKE: Thank you.

9 DR. CHOW: Correct.

10 DR. MIIKE: Do you have -- could you provide
11 us with some description or some summation about that kind
12 of research?

13 DR. CHOW: Well, based on some of the -- I am
14 not sure whether too much of that has been published yet
15 but I hear within the community that quite a lot of this
16 research is done using oocyte cytoplasm because as you
17 know the nuclear transfer technology has given us a lot of
18 insight in what is in the oocyte that is providing this
19 mechanism for dedifferentiation and so I think that in
20 this particular case, of course, it is not using only
21 human oocytes because people are using mainly other mammal
22 oocytes to try to find out what is inside of the oocyte

1 cytoplasm to differentiate and find out what this de-
2 differentiating factors or combination of them could be.

3 So if that is possible then it is quite
4 possible to go back to somatic adult -- somatic cells from
5 adult individuals, any animal, and try to de-differentiate
6 them and then use what is known now as some of the
7 signaling factors trying to redirect the cells to
8 differentiate into various cell types.

9 So we are not going to be going back to the
10 whole issue of making a full human being or embryo but if
11 we know the various steps then we will be able to
12 interrupt step by step and progress from that step on.
13 This is still in its infancy. So I think that we do need
14 to make use and give the opportunity to all the
15 scientists, especially many of them are federally funded,
16 who can probably contribute a lot to this research if they
17 are allowed to -- it does not necessarily mean that they
18 will be using it. If the potential is there they can be
19 allowed to use it.

20 DR. MIIKE: My only point was that I do not
21 want to get lost in the debate but part of the research
22 process is the backward steps.

1 DR. CHOW: Right, exactly. Exactly. And it
2 is being done right now.

3 DR. SHAPIRO: Thank you. Any other comments
4 or questions from members of the commission?

5 Again thank you very much for being here. We
6 look forward to the other materials that you will provide.

7 Let's now reorganize our schedule today. We
8 are running probably three-quarters of an hour late or a
9 little more than that. What I propose now is that we do
10 break for lunch and we will reconvene at 1:15 here. We
11 will try to wrap up at that time our discussions and
12 testimony from Dr. Marshall and then proceed immediately
13 to our afternoon agenda as put in your books.

14 So thank you all. Let me extend once again my
15 great thanks to those who came to address us during public
16 comments, especially for those who had to travel to be
17 here. Thank you all very much.

18 PROFESSOR CAPRON: Mr. Chairman, do we
19 acknowledge the receipt and enter into our record the
20 statement from the Ethics and Religious Liberty Commission
21 of the Southern Baptist Convention, which I believe was
22 also distributed today?

1 DR. SHAPIRO: Yes. Thank you.

2 PROFESSOR CAPRON: I gather the authors are
3 not here.

4 DR. SHAPIRO: Not as far as I know, yes. We
5 will certainly put it in the record. Thank you very much
6 and we are recessed until 1:15 this afternoon.

7 (Whereupon, luncheon break was taken from
8 12:07 p.m. until 1:28 p.m.)

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1 A F T E R N O O N S E S S I O N

2 DR. SHAPIRO: Okay. I would like to call the
3 meeting back to order otherwise we are going to run much
4 too far behind. The schedule is already delayed.

5 As promised, I wanted to go back to two things
6 before we get to our discussions on stem cells. Both,
7 hopefully, will be relatively brief. One, of course, will
8 be brief, which I will talk about in a minute. It has to
9 do with the HBM report.

10 But I also wanted to give Professor Marshall
11 an opportunity to have a few more words about the material
12 that she was presenting to us. I think we have all had an
13 opportunity to read the actual document. And then I want
14 to allow some time for questions of Professor Marshall.

15 So let me turn to you with apologies that we
16 have had to split up your work in this way.

17 CONSULTANT REPORT (Continued)

18 DR. MARSHALL: No problem. No problem at all.

19 What I would like to do right now is perhaps
20 summarize some of the findings from Nigeria and this is a
21 very quick assessment based on the interviews that I just
22 finished within this last week.

1 I think there are four dominant problems. Two
2 are substantive and two are practical. Four challenges to
3 the obtaining of informed consent in a cross cultural
4 situation like you have got in Nigeria with these genetic
5 epidemiological studies.

6 The two substantive challenges are, first,
7 cultural and, second, translation issues in relation to
8 the language and within the cultural challenges I think
9 there are three issues. The first one has to do with the
10 problem of authority and consent, the location of
11 decisional capacity. It is important to tease out the --
12 how an individual provides consent within the context of
13 being absolutely imbedded within the fabric of a
14 community. I am just going to go over these very quickly.

15 DR. SHAPIRO: That is fine.

16 DR. MARSHALL: The second issue in relation to
17 a cultural challenge has to do with concerns about the
18 procedures that are done during the course of the
19 research. For example, in Nigeria there are concerns
20 about drawing blood and it is because of the beliefs about
21 blood. Blood is thought to be a part of your -- the -- it
22 is a piece of the goodness of your heart, the goodness of

1 your soul, and it is such a precious commodity you do not
2 want to give it up. Also, if someone takes your blood it
3 could be used for sorcery. It could be used for --
4 someone could sell it and it could wind up coming back to
5 you in an evil kind of way. So that would be a second
6 cultural concern.

7 The third concern has to do with -- the third
8 issue related to a cultural challenge has to do with the
9 presentation, the portrayal of risks and benefits. In the
10 United States, we are very careful to portray risks in a
11 very negative -- I mean, a robustly negative way. We say
12 things like "you may die if you participate."

13 I had more people tell me essentially, "What?
14 Are you out of your mind? How am I going to tell my
15 patient that she may die?" I mean, you know, they thought
16 we were crazy to go to that extent and that instead we
17 should emphasize the positive.

18 So there is a strong feeling that we over
19 emphasize the risks, we dramatize, we make mountains out
20 of mole hills, and if they did that nobody would
21 participate in studies.

22 And the other issue is not representing enough

1 about the benefits of the study. Either benefits that
2 would come to the individual or benefits that would come
3 to the group, the community.

4 So those are the three cultural factors.

5 In relation to the issue of translation, this
6 is the second substantive challenge, the translation of
7 documents from one language to another presents, I think,
8 two problems. First, the language itself and, second,
9 conceptual issues related to the substance of the
10 document. In relation to the language, it is problematic.
11 There is no comparable word. For example, genotyping,
12 gene -- there is no -- there is not a Yoruba word for gene
13 or genotyping so there is -- I mean, you just practically
14 have to work your way around that.

15 And the other issue has to do with conceptual
16 things. I mean, if you do not have a concept of a theory
17 it might be difficult to communicate something about
18 infectious disease. That is a -- I mean, that is just an
19 example. That is not necessarily true with the Yoruba but
20 it is an example of that kind of -- what I mean by
21 conceptual issue.

22 Now the two practical issues have to do first

1 with the amount of information. The people that I spoke
2 with in Nigeria, they just shake their heads at the length
3 of the informed consent documents that we use. They were
4 trying to work with five pages of informed consent
5 material and they said that if they took a consent
6 document like that to their participants, potential
7 participants, they would spend half their time dealing
8 with trying to recruit people and they would never get on
9 with the business of caring for patients or conducting
10 research. This is a practical issue.

11 The other practical issue is dealing with the
12 administrative requirements from Washington. A physician,
13 with whom I spoke, complained strongly about the fact that
14 he had to use his -- money from his department when he had
15 no resources to make nine copies of the entire study for
16 his IRB instead of being able to simply summarize the
17 study.

18 Why don't I stop there. There are so many
19 interesting compelling issues to talk about but really I
20 think those four are the primary challenges.

21 DR. SHAPIRO: Thank you very, very much and we
22 certainly look forward to your report, which sounds really

1 fascinating, indeed. But let's see if there are any
2 questions from the commissioners at this time.

3 Jim?

4 DR. CHILDRESS: I guess one would be whether
5 in the process of this research since you are very
6 familiar with this context and environment, were there any
7 surprises? Were there certain things you have gone in
8 with, preconceptions, and it turned out to be mistaken
9 when you started looking at these particular issues?

10 DR. MARSHALL: I think that I expected -- I
11 did not expect the participants to be so knowledgeable
12 about the purpose of the research. I mean, the research
13 is on the genetic and epidemiological determinance of
14 hypertension, breast cancer and type 2 diabetes. And I
15 was amazed at how articulate some of them were.

16 However, I only -- I did not speak to -- these
17 participants were chosen for me. So it is not like I am
18 going in blind talking with people that, you know -- with
19 just any participant. I mean, this is an exploratory
20 study and the people with whom I did speak I talked with
21 them in depth. But that surprised me that they would be,
22 you know, so articulate.

1 DR. SHAPIRO: Did you get any sense from the
2 discussions you had that this process of going to the
3 chief, who then had a mechanism for -- I mean, beyond the
4 gift giving and so on, had a mechanism for informing
5 others? Did you have the sense that it can stop right
6 there? That is that beyond the gifts he was just serving
7 as a method of reaching the community or was he or she
8 evaluating this and deciding whether it would be good for
9 their community members to participate?

10 DR. MARSHALL: Absolutely they evaluate
11 whether or not it would be good for the community. And
12 that is a big consideration that plays into, I think,
13 their decision about whether or not to provide approval.
14 Usually if -- because of the health -- because it is
15 related to the health of the community I think there is an
16 inclination to provide approval as long as there are not
17 any red flags going up.

18 But let me tell you recently there was a
19 publication -- an article published in Social Science in
20 Medicine. I believe Leach was the lead author on that, an
21 Englishman, and this was a study of informed consent in
22 Gambia. The point of this article was that people

1 involved in this -- it was, I believe, a malaria vaccine
2 that they were looking at so they were getting consent
3 from parents and everyone was providing consent and they
4 were saying, "You know, we have people making autonomous
5 decisions here and really every one is more or less with
6 the program."

7 But they mentioned one community that totally
8 refused to participate in that study and I believe,
9 although it is not communicated, I believe that what
10 happened is the person -- the community representative,
11 whether it was a tribal leader or maybe a religious
12 figure, they said, "No, this is not going to happen. We
13 will not allow the study to be done."

14 Also, I heard -- people were telling me this
15 last week -- people were telling me about instances where
16 studies failed because the chief may have given approval,
17 they started to do the study and then something happens to
18 one of the participants and words gets out, and the study
19 has to stop because people back out of the study. They
20 say, "You know, what are you doing to us?" Even if what
21 happened was not related to the participation in the
22 study.

1 DR. SHAPIRO: Thank you.

2 Arturo?

3 DR. BRITO: Your comment about the fact that
4 in Western medicine, Western research, we emphasize a lot
5 on the risks and the feeling that maybe the benefits need
6 to be emphasized more, makes me feel like maybe there is a
7 lot of -- could be a lot of potential problems with the
8 therapeutic misconception like with a lot of the community
9 leaders as well as individuals. Is there a method in
10 place to get around that to make it very clear that there
11 is a difference between a research study and a therapeutic
12 -- or a therapy basically?

13 DR. MARSHALL: Good comment. No, there is not
14 a method in place to do that. I think that really depends
15 upon the negotiation of informed consent. That
16 conversation that occurs between the individual obtaining
17 it and the person giving it. I can tell you my own
18 opinion is that a lot depends upon the integrity of the
19 researcher, the integrity of -- and the integrity of the
20 person obtaining consent. I believe there are two issues
21 that infuse that negotiation of consent, trust and power.

22 And I think that for the most part people

1 participate in studies because they feel that they are
2 going to get something out of it either in relation to
3 their health, certainly even in the notes that I gave you
4 I think that there is a comment about -- from a
5 participant where he says, "You know, I am going to get
6 drugs. I want to participate because it will help the
7 Nigerian people and it will help Americans, too, but also
8 I will get my health care paid for and I will be given
9 drugs."

10 It is very important for people who have
11 nothing, who are not able to obtain those drugs in any
12 other way, but there is -- in answer to your question is
13 there, you know, a formal way to deal with the benefit
14 issue, no, there is not. It is really a matter of how it
15 is presented.

16 DR. BRITO: Thank you. A question related to
17 something Harold mentioned or was asking about, is there
18 also a formal way to limit the ability to coerce the
19 community leaders? It struck me that when you were
20 speaking about the whiskey and the kola nuts as a method
21 of engaging and bringing up with these issues with
22 community leaders, but I could also see a potential for

1 the community leader to be bribed or coerced to include
2 his community. Is that an issue at all or is that a
3 concern?

4 DR. MARSHALL: First, I think that it is
5 important to understand that this practice of providing
6 gifts to a local tribal leader, that is normative behavior
7 not just in relation to the implementation of a research
8 study in a community but it is behavior that occurs for
9 any event that will take place within the community. And
10 the providing of gifts really is the kola nuts and
11 whiskey. It is like a -- we are not talking about a bribe
12 or what could be conceived as a bribe of building a new --
13 you know, building a structure, a health care clinic, say,
14 for example.

15 I do not really have so many problems with
16 that personally with that interaction that takes place but
17 for me the paradox that we are saying -- is there
18 something the matter with this? Am I talking too close?

19 DR. SHAPIRO: Arturo, why don't you turn
20 your's off and see how it goes.

21 DR. MARSHALL: I was talking with Bernie
22 during the break. For me the real paradox is here you

1 have this infrastructure of community that is so powerful
2 and so compelling and I believe that they are looking out
3 for the most part for the good of their community. But on
4 the other hand, you know, I said, "Well, okay, so you have
5 got this approval. How many people actually refused to
6 participate?" Very few people, in fact, refused to
7 participate if a study is -- has the -- someone even
8 called it an imprimatur. So, you know, there is a
9 delicate balance there.

10 DR. SHAPIRO: The last question because then
11 we are going to have to move on.

12 Bernie?

13 DR. LO: In your notes and your comments I was
14 struck with some of the implications for our other
15 discussion on research on human biological materials. We
16 would assume that to use stored tissue samples involves
17 low physical risk and that drawing blood is a pretty
18 harmless procedure. And your example suggests that in
19 some cultures it may be conceived of as very risky in
20 metaphysical terms, that taking my blood opens me up to
21 the risk that someone is going to practice sorcery or
22 something. It is conceivable to me that the same protocol

1 that was deemed low risk, minimal risk, whatever we want
2 to call it in the U.S., may not -- it may not be
3 appropriate to apply that same risk analysis in another
4 culture.

5 To what extent are the researchers sort of
6 aware of both the approach or paradigm we are sort of
7 putting forth, for example, here and how that really may
8 not apply in a culture where risks are evaluated in a very
9 different way and what is considered risky is something
10 totally alien to this --

11 DR. MARSHALL: The researchers are absolutely
12 sensitive. Not just the researchers but the people who
13 are obtaining the consent. I mean, they may be research
14 assistants. I spoke with a number of those individuals
15 also. They are very sensitive to what the potential
16 subjects might consider to be risky.

17 Forget about the issue of, you know, what will
18 happen -- what can be used in the future in relation to
19 developing some other material from any bodily specimen
20 you take from me. That is not a concern for these people.
21 What is of concern primarily was the drawing of the blood
22 and they have developed some strategies to talk about

1 this.

2 I have to tell you again this was raised
3 independently to me by almost everyone that I talked with
4 so I -- it was an across the board concern, this issue of
5 drawing blood, and they -- the way that they deal with it
6 is by emphasizing that it is a small amount. They say,
7 "Look at how much blood you have in your body. Think
8 about how much blood you have. We are taking just a small
9 amount."

10 I had one person tell me that she had a
11 patient involved in the study who became very upset when
12 they were drawing blood and a little bit of the blood
13 spilled on the floor and the blood spread. You know, I
14 mean, it just -- it became -- it appeared to be a pool of
15 blood. And it was this idea of spreading that gave the
16 appearance of largeness and in that case the person
17 obtaining consent had to do a lot of explanation.

18 So they are aware of that -- the perception of
19 different kinds of risks but most of the people that I
20 spoke with they -- they told me, "We do not like to tell
21 patients that bad things may happen to them."

22 I think you have one of the quotes from

1 someone who -- one of the docs who said, "You know, I
2 cannot tell someone..." this is so true for Nigeria. He
3 said, "I cannot tell someone I am going to provide them
4 with transportation to get to the clinic." He said, "You
5 know, they could die on the road," which I mean -- you
6 know, that is true. There are skeletons of cars and buses
7 and burned out cycles littering the median strips in the
8 country side. He said, "I cannot do that. I have to say,
9 'I will drive you.'" Is that how he said it? "I will
10 bring you to the clinic." He said, "And maybe what I will
11 say is 'I will get you to the clinic safely.'" Isn't that
12 what he says in there? I think that is the part in the
13 quote. "I will bring you there safely."

14 And then finally he says, "And maybe the last
15 thing I will say is, 'And God forbid, an accident will not
16 happen.'" You know, it is like -- so there is a real
17 sense of protectiveness about how you communicate danger
18 to potential subjects.

19 So this notion of risk is an interesting one
20 and I would love to explore it more to tell you the truth.
21 In the end, all I will be able to give you is the results
22 of a number of in depth interviews. So, you know, it will

1 be a great time to think about what sorts of hypotheses we
2 can generate but it should be a very good case study.

3 I think it will be.

4 DR. SHAPIRO: We think so, also.

5 Thank you very, very much and thank you
6 especially for being here today. We very much appreciate
7 the effort you went through to come.

8 DR. MARSHALL: I am glad that I could be here
9 and, you know, I think that I am going to leave now so I
10 can unpack my bag.

11 DR. SHAPIRO: Okay.

12 DR. MARSHALL: Thank you very much.

13 DISCUSSION OF DRAFT REPORT CONTINUES

14 DR. SHAPIRO: All right. Do you want to press
15 your button there before leaving?

16 Okay. I want to now just go back extremely
17 briefly to a particular aspect of the human biologicals
18 materials report, which was the object of some discussion
19 late yesterday afternoon, with respect to recommendation
20 2. I am going to turn to Eric to describe this situation.
21 We just want to get a sense from the commission so we know
22 how it is we want to go about writing what will replace

1 recommendation 2.

2 Eric?

3 DR. MESLIN: Well, very quickly, we wanted to
4 get a sense of the commission as to whether you wanted to
5 divide up what is currently recommendation 2 into two
6 subpieces. The first relating to the principle issue of
7 research conducted on unidentified or unlinked samples and
8 then the second issue relating to the independence of the
9 individual who would be -- is that me?

10 DR. SHAPIRO: I think it is maybe me from
11 this.

12 DR. MESLIN: So we will be happy to bring some
13 people together by a call or to get some writing done but
14 we want to get the sense of the commission as to which
15 direction they would like us to go.

16 PROFESSOR CAPRON: I thought that the division
17 that was being contemplated was between the present
18 section, which would be described as research conducted on
19 unidentified samples without the language of -- with
20 whether the specimens are, et cetera, et cetera,
21 unidentified samples.

22 And then a separate description of research

1 conducted on unlinked samples in which we could address
2 the mechanism by which the adequacy of that unlinking
3 process was addressed. And if there is adequate unlinking
4 then the samples would not be subject to the requirements
5 of the common rule but that the process of determining
6 that that had occurred would be a predicate.

7 And there was some discussion as to whether
8 that should be an IRB or some other -- the department of
9 pathology or some other mechanism at the university or the
10 research institution or the repository or wherever it is.

11 And I thought there was wide agreement with
12 Steve's point that we are really concerned with the
13 objective which might be achieved through several
14 different processes and that we did not want to bind
15 ourselves to the one process which is described here,
16 although that would be an appropriate part of the
17 commentary.

18 MR. HOLTZMAN: I am going to try to -- it is
19 going to sound like I am going to make this more complex
20 but I think I -- as I have been thinking for the last ten
21 minutes about this since I talked to you, it is along the
22 lines of Alex and I think we can simplify it.

1 And that is if you read this recommendation --
2 let's put aside the issue about how you ensure the
3 unlinking. What this recommendation is about is asking
4 OPRR to provide some clarification and I think what we
5 want to do, therefore, is to ask OPRR to provide
6 clarification that under current regs research conducted
7 on unidentified samples does not involve human subjects
8 and research conducted on unlinked samples does not
9 involve identifiable individuals. In both cases such
10 research is not subject to the common rule. That is one
11 bucket.

12 The second has to do with how do we ensure
13 that unlinking is real unlinking? And as I was writing
14 that and thinking about it, I think we probably have the
15 same concern with coding. So I found myself then writing
16 a second recommendation that is totally distinct along the
17 lines of institutions and organizations that participate
18 in research conducted with unlinked and/or coded samples
19 should institute policies and procedures. For example,
20 the use of independent third parties to code and unlink to
21 ensure that the coding schemes and unlinking procedures
22 are robust and I did not get far enough.

1 I think those are the two very distinct
2 issues.

3 PROFESSOR CAPRON: I think we introduce
4 confusion by putting together the unlinked and the coded
5 here and I think we also introduce complexity in the
6 expression of the idea by putting together the
7 unidentified and the unlinked. So I think I do not agree
8 with your solution there because the point of having a
9 separate statement on unlinked is precisely to identify
10 the adequacy of the process and to recognize that while
11 unidentified just fall below the radar screen entirely, it
12 is -- you know, sort of stealth research as it were.

13 The other, we have to determine whether or not
14 it is below the radar screen and so it is necessary to fix
15 a lacuna in the present process and I think that the
16 recommendation there is not just for clarification by
17 OPRR, which is what we urge in recommendation 2 on the
18 definition of identifiability, Steve.

19 It is really suggesting that we need an
20 assertion of a procedural step which would be required in
21 order to fall into that category. So it is sort of the
22 ironic thing. Once you pass it, you are back out of the

1 system.

2 Now earlier today we identified another
3 circumstance where the -- I think you were the one who
4 identified it, right? -- where the problem of research
5 falling -- you know, that we were presuming a process
6 which would not occur in the way that we were presuming
7 it. I am forgetting which recommendation it was. I am
8 just looking for it. Was it 14? Yes. It is the
9 stripping where we are talking there about stripping the
10 identifiers.

11 In 14 we recognize that you would not be
12 explaining this to the IRB unless you had a process like
13 this to unlink it. It is the very same category and that
14 is why that recommendation 14 could be folded in to a new
15 recommendation following 2. But it seems to me it would
16 be very complex to try to package that all in with
17 unidentified samples, which are much more straightforward.

18 DR. SHAPIRO: Larry?

19 DR. MIIKE: My recollection of the discussion
20 is very simple in the sense that if we are talking about
21 unidentified specimens, which nobody knows who they are
22 anyway, it is not an issue to say that there they are

1 exempt. What we -- what came up in the discussion was
2 that for the unlinked there was no oversight over that so
3 that was the issue that was facing us, whether we want to
4 only keep 2 for the unidentified specimens and then
5 develop some means of -- some way of a check to see
6 whether the unlinking, which removes it even from any kind
7 of scrutiny, is something that we would want to develop.
8 I mean, that was my understanding of this morning.

9 DR. SHAPIRO: Steve?

10 MR. HOLTZMAN: I am not sure if we are in
11 disagreement, Alex. Is it or is it not the case that if
12 something is genuinely unlinked that it is not -- that it
13 is exempt? I think we have said that it is.

14 PROFESSOR CAPRON: Yes. I think we have -- I
15 think there is agreement that if it has risen to the level
16 of being extremely difficult for the researcher, et
17 cetera, to figure out who these people are, we consider it
18 the same as if it is unidentified.

19 MR. HOLTZMAN: Right. So to me the first step
20 of the -- if we are going to say, OPRR, let the world know
21 that the following class of research is exempt, I think we
22 should state the classes that are exempt. So that is why

1 I said take -- in the simpler form rec 2 would simply say
2 these two classes of research are exempt.

3 Now it is another step then to say in order to
4 be exempt what are the kinds of procedures we want to do
5 to ensure the sanctity of the unlinking process. So that
6 was -- now whether in that latter we also want to get into
7 recommendations about sanctity of coding. We could go
8 there as well.

9 PROFESSOR CAPRON: I would not urge that we go
10 to the coding thing because the coding thing is already
11 covered by recommendation 3.

12 MR. HOLTZMAN: That is right.

13 PROFESSOR CAPRON: And while I -- I mean, I
14 agree with your analysis. I see -- I think it is clear
15 but I would just say at this point we probably want to
16 leave this to the drafting process and see if we can do
17 it. I will help with that to make this two statements of
18 categories A and B where both of which fall below the
19 radar screen.

20 DR. MESLIN: Larry? It will be the last
21 comment.

22 DR. MIIKE: I would just like to introduce

1 another thing, which is that I do not think we need 14 at
2 all. I mean, if we can deal with the issue about the
3 legitimacy of unlinked I do not see why we need to ask the
4 question that 14 asks.

5 PROFESSOR CAPRON: Well, 14 was this sort of
6 ironic thing that having stated that there was a category
7 of unlinked which was not going to be subject to review,
8 it was almost a statement of principle rather than a
9 recommendation that researchers should be pressed to say
10 if you have data where the research could probably be
11 better conducted with coded or even identified samples for
12 some reason but particularly coded samples, why aren't you
13 doing it that way. Why are you going to unlinked? Are
14 you going to unlinked simply so you will not have to go
15 through the review process? That is a bad reason to go to
16 unlinked.

17 Now it is sort of the flip side. And if we
18 have a process in which you have to explain how you
19 unlinked, it would be appropriate at that time to say why
20 are you unlinking.

21 DR. MIIKE: I am just saying it is not an
22 appropriate question or a recommendation for us to ask it.

1 DR. MESLIN: I am going to suggest given that
2 we have all taken notes, one of which is that we could be
3 linking 14 with 2, that Steve and Alex and Larry, if you
4 would like to join a quick e-mail conversation to produce
5 some language and circulate it fairly quickly, if that is
6 acceptable to everybody.

7 PROFESSOR CAPRON: Do you want to resolve the
8 issue that Larry raises? I mean, Larry -- because it does
9 not make sense to redraft this and include that, which
10 would be more complicated, if most people agree with
11 Larry.

12 DR. SHAPIRO: My feeling is that -- I mean, I
13 think the reason we have 14 -- I am not sure it is in its
14 right place and it might need to be redrafted in some way
15 -- but I think the reason we have 14 is still there as far
16 as I understand it.

17 PROFESSOR CAPRON: Well, I agree.

18 DR. SHAPIRO: That is that we wanted to put
19 some impedance mechanism in the system to -- because there
20 were benefits that might be foregone by unlinking or
21 making them unidentified and we wanted to make sure that
22 people did that thoughtfully. That is all.

1 DR. MIIKE: But, Harold, if researchers want
2 to do lousy research that is their problem. It is not
3 our's. I mean, there are boards and there are peer review
4 people to decide whether it is a worthwhile project or
5 not. It seems to me that is what we are getting into
6 here.

7 PROFESSOR CAPRON: But the point is that one
8 of the foregone benefits is foregoing the benefit of IRB
9 review and the incentive for someone to do that should be
10 at least explicitly addressed.

11 DR. MIIKE: Well, what I am saying is that the
12 revisions that we are going to do would not address that
13 issue.

14 DR. SHAPIRO: I understand what you are
15 saying.

16 Steve? And that is the last question. We
17 have to get off this subject.

18 MR. HOLTZMAN: I think there is actually a
19 very deep question that is at stake here because there is
20 a view that says you are unlinking them to get around IRB,
21 to get around doing human subjects research, to get around
22 consent, and that is a bad thing to do. Put aside whether

1 or not it is good or bad research, that that is the bad
2 thing to do.

3 There is another view which says IRB human
4 subjects protection in research, et cetera, is a very good
5 thing but it is only in play where there is personally
6 identifiable samples of people and in taking that --
7 unlinking them it is no longer in play so that you have
8 not done anything bad. All right. It is just that it is
9 a different view of when those considerations come into
10 play. So in that sense this is a very substantial
11 recommendation in terms of a judgment on that issue.

12 RESEARCH INVOLVING HUMAN STEM CELLS

13 DR. SHAPIRO: All right. We will redraft
14 those and then pass them around to the commission for
15 review.

16 All right. I want to go on now to something
17 we had hoped to get to at 11:30 this morning and have not
18 managed to reach yet and that is to return to our ongoing
19 discussion regarding our stem cell report that is in
20 process in our own thinking on this issue.

21 Let me just say something about the timetable
22 that is in front of us in this area. We hope by sometime

1 before the end of this month, that is before the end of
2 April, to really have completed a draft of what I will
3 call for the moment the science chapter. And send it out
4 to review by external readers, other scientists who may
5 look at it and so on, as well as sending it to members of
6 the commission.

7 This is in my mind a really quite important
8 chapter of the report as I see it because it is not simply
9 a recitation of where the existing science is on the
10 isolation of human embryonic stem cells or just how that -
11 - recent developments in this area and how that has raised
12 a new set of issues for some people.

13 But I also aspire that this chapter shall look
14 at the science that is before us and what the road map
15 seems to be as we look ahead and what kinds of issues we
16 are going to be faced with, if not tomorrow then the day
17 after tomorrow, because I think that may very well impact
18 how we think through and what kind of framework we want to
19 provide for whatever recommendations we come to or for any
20 issues that we might wish to highlight even though they
21 may not come forth as a recommendation.

22 So, for example, depending on how we think

1 about or how we might anticipate scientific developments,
2 we might think that there are certain types of new
3 language that will have to be used to be able to deal with
4 an entirely new understanding of what is going on in the
5 basic biology and while we may or may not use that
6 language, they may or may not generate any recommendations
7 at this time, it may very well enable us to set some
8 groundwork for issues that are going to have to be
9 addressed in the years ahead.

10 So I think this chapter is important not only
11 for whatever educational function it may have to outline
12 for people where the science is today and what it is that
13 has caused us to come back and look at this subject but
14 because it may, in fact, lay some framework for the way
15 all of us will have to think this through in somewhat
16 different ways as we go forward. That is speculative at
17 the moment but at least that is what I would aspire to
18 here in this chapter.

19 So that will be an important thing for us to
20 look at carefully and, hopefully, we will be able to do so
21 around the end of this month to the beginning of next
22 month. And having some external review of this is going

1 to be really quite important because I really want to be
2 sure that whatever we produce, and those of us -- those
3 people who help us produce it -- really stands the
4 scrutiny of other people who are independent of the
5 commission and its work.

6 Now we will also in that time frame, that is
7 end of this month, beginning of next month, probably on
8 April 29th or May 6th, is -- as you know from the e-mail
9 that we have distributed, we are going to try to put
10 together another meeting of the commission, although I
11 understand that that will be really very -- it will be
12 difficult for all our calendars and I do not know how many
13 commissioners will be able to make it but we will probably
14 have a one day meeting to deal with at least one issue and
15 perhaps other issues.

16 We want to provide an opportunity for the
17 commission to hear about religious perspectives, various
18 religious perspectives on the issues that are before us.
19 We, of course, heard some very important testimony here
20 today but there will be -- we want to provide an
21 opportunity to hear additional testimony on this issue and
22 perhaps by that time there will be other issues, which as

1 we work through our report, we may want to at least run
2 through at that time. But that will be -- you will hear
3 more from the staff on that issue. That will also occur
4 at the end of this month, the beginning of this next month
5 some time.

6 Our objective right now, and it is regarding
7 the actual report itself, we have a lot of material here
8 that provides a lot of background and some ideas regarding
9 ethical and other aspects of this issue but we have to
10 begin drafting the report itself and we probably will not
11 know just where we stand until we actually look at a
12 coherent framework.

13 I hope that we can by the first week or ten
14 days of May begin to have drafts of some chapter. We
15 will, of course, have the science chapter I just
16 described. We will have some introductory material.
17 Perhaps some material building on the regulatory and legal
18 issues that are involved here. Perhaps even by that time,
19 although it may be pressing our luck a little bit,
20 something or at least some initial ideas of the structure
21 of what we will do on the ethical issues that are
22 particularly relevant to the kind of recommendations we

1 will be discussing.

2 That is a lot to get done. I am not sure we
3 will get it all done but we are trying to provide some
4 really meaningful additional material by the time we meet
5 in Chicago on May 11th and 12th. I think that is the date
6 for our Chicago meeting, on May 11th and 12th.

7 Now as you think about that schedule, by mid-
8 May, as I understand it, the NIH Guidelines will be
9 distributed, whatever guidelines they are going to
10 develop, will be distributed for public comment and I
11 believe for a 60-day period. That is my understanding. I
12 do not want you to hold me to that.

13 That is NIH's decision but my understanding is
14 that they are at least aiming to distribute for public
15 comment in mid-May, which means that it will be a couple
16 of months after that. There will be a couple of months
17 for the public comment and then some -- perhaps they will
18 move to some final resolution of their judgment. I really
19 cannot speak for them on that issue at all.

20 But in late May the AAAS will also be issuing
21 its own guidelines. As you know, the AAAS has also
22 engaged itself in this subject. And so we will have

1 between the time of the first draft materials that we
2 start producing, it will be somewhere in the beginning of
3 May, and certainly for the Chicago meeting, and the end of
4 May, we will have the benefit so to speak of seeing what
5 some other organizations think about this and how they are
6 trying to pursue these matters.

7 I have no idea in the case of just how broad
8 those guidelines will be either for the NIH or AAAS. We
9 will just have to wait and see how that develops.

10 I am hoping that not long after that,
11 somewhere towards the end of May, we will have a pretty
12 good fix on our recommendations. We may not have them all
13 in place and we may not be able to feel completely
14 comfortable but we really have to by the end of May, which
15 is roughly six weeks from now, have a pretty good fix on
16 our recommendations because that will enable us to produce
17 a coherent draft report for June, our June meeting, and I
18 hope actually in June to get a turn around.

19 That is my aspiration, is to have a report
20 ready to distribute to the committee, a draft report,
21 early in June, send it out for comments, bring it back and
22 send out a version that will reflect some of those

1 comments, at least, that we can then discuss at our
2 meeting at the end of June.

3 That will enable us to report roughly in that
4 time frame, shortly after our June meeting, which as you
5 might recall will occur on June 28th and 29th. That is a
6 very ambitious schedule since this is such an important
7 and difficult topic to deal with. As we know, every time
8 we have discussed this there are a complex set of issues
9 for us. Some of which, if I had to make a guess, we will
10 not be able to deal with them all. We will probably find
11 ourselves -- but I hope we will be able to deal with a
12 coherent set that will add and make some contribution to
13 the ongoing public debate on this issue.

14 Indeed, I think my own view is that our
15 discussions already have made a contribution even though
16 we, ourselves, have not resolved where we stand on a whole
17 series of issues. It is quite clear to me from the
18 feedback I get from those people, both the AAAS, NIH,
19 other places and Congress, and elsewhere, that our
20 discussions, even though we may all change our minds about
21 something, are already beginning to have some kind of
22 impact on the way others think.

1 So that is the overall agenda. It is
2 extremely demanding. We are going to try to be working
3 very hard in the next little while and, of course, while
4 we do this we have to complete our HBM report and in that
5 area I am -- I want to reiterate what Jim said just before
6 lunch. I think the biggest outstanding problem is to get
7 chapter 4 right. We have some times to resolve in the
8 recommendations which are important enough but I am fully
9 confident we can resolve that in some satisfactory way and
10 I am fully confident about chapter 4 also but nevertheless
11 that is, in my own mind, conceptually the biggest job we
12 have in the next month or so.

13 But, hopefully, at our next meeting we will
14 have something for us -- by next meeting I do not
15 necessarily mean the special meeting we are going to have.
16 I do not know how fast we can get material for that. That
17 will be around -- especially if it is around the end of
18 April we certainly will not be there. But we do have to
19 come back to chapter 4 in a very careful way as Jim
20 indicated.

21 So that is roughly the framework in which we
22 are operating. Despite the fact -- it is always difficult

1 and challenging to have to deal with issues like this
2 under deadlines of any kind because no matter how often --
3 how hard you think about this, you always at the end of
4 the day want some more time for reflection. I do not mean
5 you. I mean myself in that respect. Many people. On
6 difficult issues you just want to have more and more time
7 for reflection on what are, everyone would say, very
8 difficult and sensitive issues.

9 But we are committed to reporting roughly in
10 the time frame of the end of June and that is what I would
11 like to continue to aim for if we can all -- if we can all
12 get there and only time will tell.

13 Now I would like to go back to our last
14 meeting. If you recall, we had after some initial
15 discussions, we had realized that all of -- many of us
16 were using different kinds of reasoning and different
17 kinds of propositions to get ourselves to recommendations
18 that we seemed, at least in a very initial way, to either
19 be comfortable with or if not comfortable with, at least
20 thought of them as a good place to start our discussions
21 and to see how those recommendations might be supported if
22 they could be. And I want to go back to that discussion.

1 We had partly, I think, in response to a very
2 helpful paper by Professor Fletcher, who has now given us
3 -- I do not know which version this is. This is his third
4 or --

5 DR. FLETCHER: You have Draft 3, Part 1.

6 DR. SHAPIRO: This is -- all right. Draft 3,
7 Part 1. It is beginning to sound like a federal
8 regulation but in any case it has been very helpful to us
9 and we are very grateful to you for your ongoing care with
10 which you are providing a coherent way for us to think
11 through this problem.

12 We had thought that we might at least begin by
13 looking at these different cases. You recall from
14 Professor Fletcher's paper those cases one through four.
15 I am not going to bother describing those. I think you
16 all know what they are. And we really focused our
17 discussion last time on cases one and two. This was a
18 case of what you might question the use of aborted fetuses
19 as a source, at least indirectly, to produce cell lines.
20 The so-called Gearhart research program. And the case two
21 is really is the so-called spare embryo case where you
22 might think of that as the Thomson research project.

1 And we talked about whether we felt it might
2 be reasonable to think that that was permissible. What we
3 are talking about here, let me remind everybody, is not
4 simply whether it is legally permissible. We know in this
5 country right now this is all legally permissible. We
6 were focusing our attention on whether this should be --
7 such efforts should be appropriate -- is an appropriate
8 thing to be supported by federal funds. That is really
9 the focus of our attention. And whether the moral
10 arguments one way or another would lead us to indicate
11 that, yes, it would be appropriate or, no, it would not be
12 appropriate.

13 And I think, if I am recalling correctly from
14 our last meeting, that the sense of the commission at that
15 time, initial as it may have been and tentative as it may
16 have been in many of your minds, was that we probably
17 might move in that direction, to think that both for cases
18 one and two that this might be something that was
19 appropriate for the federal government to support for
20 different reasons. Also, we then discussed the issue of
21 whether it was disingenuous or not to separate use from
22 derivation. That is less of a problem.

1 Case one obviously where you are dealing with
2 a fetus that is dead, the issue is the so-called firewall
3 that you erect between the decision to abort and the use
4 of this for this purpose, use of the tissue for this
5 purpose. That was case one. I think we came rather more
6 easily to the idea that both for the purposes of use --
7 that is using the cell lines -- federal funds for the use
8 of these cell lines and for the derivation seemed to most
9 members, I would not say all members, of the commission to
10 be appropriate.

11 And then we went to case two and it is at
12 least my recollection, and some people who have been
13 reading the transcript can correct me, that at least many
14 members of the commission, certainly probably not all,
15 thought that in that case as well that we ought to be
16 considering the recommendation that federal funds were
17 appropriate both for the use of these cell lines, existing
18 cell lines one way or another and for the derivation of
19 these cell lines under the grounds that it was, as I said
20 a few moments ago, disingenuous to try to make a
21 distinction between the two.

22 Now, I guess my first question is, one, have I

1 described something which seems like another meeting to
2 you, another commission, or have I described something
3 that was, indeed, a reasonably accurate reflection of our
4 discussion? And I will ask you to answer that in a
5 moment.

6 I think today that we ought to see -- first of
7 all, revisit that issue. Is that where we were? Do
8 people think that that is still a viable position at least
9 in a tentative way? Because, of course, we will have to
10 develop the reasoning for this and I think each of us did
11 that as a matter of fact the last time but we did it in
12 somewhat different ways and we would have to find a
13 framework on which we could agree.

14 But we, also, at least look at -- and think
15 about for some time the -- what Professor Fletcher has
16 called cases three and four, and see if we are comfortable
17 creating a distinction there and saying that in three and
18 four there are morally relevant differences between three
19 and four or other relevant differences between three and
20 four regarding public policy and the expenditure of public
21 funds for these purposes.

22 So perhaps we can start by focusing on those

1 two issues and let's see where our discussion takes us.
2 Let's go to the first part of that, namely whether in your
3 mind I have adequately summarized the initial stages of
4 our discussion last time.

5 I am going to take -- incidentally, I am going
6 to take silence to mean not that I am incorrect but I am
7 correct. But people may want to add things or perhaps I
8 have left out some part of the -- our discussion that you
9 consider important and relevant and I certainly would like
10 to understand that.

11 Alex?

12 PROFESSOR CAPRON: Just as to category two
13 that all of the kinds of protections and perhaps more
14 attached to category one would have to be customized for
15 that category.

16 DR. SHAPIRO: That is correct. I should have
17 said that. I apologize. I think it was the direct sense
18 of the commission that those protections, both in cases,
19 but it would be more difficult and more demanding to
20 construct those under case two than case one, but I think
21 it is exactly as you have indicated. The sense that those
22 would be very important to any recommendation we might

1 consider in this area.

2 Bernie?

3 DR. LO: As we originally sort of thought
4 through this approach my recollection is we were thinking
5 there was sort of a gradation of acceptability, that there
6 is going to be more acceptance for things at the top of
7 the list and a lot more controversy and a lot more
8 objection to things at the bottom of the list. And that
9 we might choose to draw the line at various places as
10 individuals and as a commission it was not clear where we
11 were going to draw the line.

12 I guess one question I have is are we prepared
13 yet to think about is there a line that we would draw that
14 allows some research to be federally funded? So are we,
15 as a commission, willing to draw the line at a place where
16 some category of stem cell research will be permitted and
17 then the question is where is the line or are we still
18 considering the possibility that no research will be
19 acceptable for funding because we think that even in
20 number one, which is the least objectionable in the
21 hierarchy, still is objectionable enough to not merit
22 federal funding? Because then it seems to me the report

1 takes a very different tone that some research will be
2 funded. It is a matter of what is included in that as
3 opposed to no research being done.

4 DR. SHAPIRO: Well, I will just again reflect
5 on my own recollection of our discussion last time. It
6 was in the -- I think the category you just described, and
7 I do not want to speak for every member of the commission
8 but for the commission as a whole -- that there was, I
9 would say, very definite feeling that some research should
10 be funded. And then the question is where to draw the
11 line and what reasoning you would have and how persuasive
12 could one be in that connection. That is certainly my
13 very strong recollection.

14 But if someone -- you know, if others disagree
15 -- and again I do not think there is probably any issue in
16 any of this that all of us feel the same way about so I am
17 not trying to implicate any single member or every member
18 of the commission in that view. Just the overall
19 perspective that we came to.

20 All right. Let's go on. We will have to come
21 back to this. There is an extraordinary amount of detail
22 to work in here, which we will certainly come back to.

1 But I think I would like to have -- hear some discussion
2 from the commission, commission members, regarding what is
3 known as case -- what are known in our lingo right now for
4 the moment in the shorthand we use -- as case three and
5 four, and see how people feel about them without --
6 whether you think they are really morally relevant or
7 otherwise relevant distinctions. Or do they definitely
8 either fall above the line or below the line wherever we
9 decide to put this line at some stage?

10 Steve?

11 MR. HOLTZMAN: Just a quick question so I am
12 clear on what we are discussing. Are we talking about
13 federal funding for the derivation of ES cells from three
14 and four, and for that matter for two -- from two? Or are
15 we talking about federal funding of ES cell research where
16 we are now going to look at what was the origin of those
17 ES cells and say that that may or may not make a
18 difference?

19 DR. SHAPIRO: My understanding is in our
20 discussions of case one and two we were talking about the
21 use and derivation. That was certainly the way we talked
22 about it last time, leaving open the issue if we are going

1 to stay there or not. But that is certainly -- on three
2 and four, I do not think we had any careful discussion on
3 that issue, and that is open. It is open.

4 MR. HOLTZMAN: So again for clarification, you
5 take the sense of the commission to be federal funding of
6 ES cell research where the ES cells were derived from
7 spare embryos and also federal funding of the derivation
8 of ES cells from spare embryos?

9 DR. SHAPIRO: I would say that was where our
10 discussion was when we left it. Whether it will stay
11 there and what will happen and how we will come out, I was
12 not making any predictions on that.

13 Larry, and then Alex.

14 DR. MIIKE: Cases one and two are fairly
15 straightforward in the sense that we are dealing with
16 existing sources. We were not talking in case -- in case
17 two, if we are talking about creating sources then we are
18 into four because if we are talking about creating embryos
19 and we are creating embryos for a research purpose it is -
20 -

21 DR. SHAPIRO: Yes.

22 DR. MIIKE: Well, let me finish.

1 DR. SHAPIRO: I am sorry. I apologize.

2 DR. MIIKE: I understand. But what -- in case
3 two we do not -- we are not dealing with creating the
4 embryos. We are talking about using the spare embryos in
5 terms of creating ES cells. Cases three and four are
6 quite different, of course. The derivation and the
7 creation is one and the same in the sense that we are
8 talking about creating through somatic cell nuclear
9 transfer or we are talking about creating embryos in the
10 usual way of IVF fertilization for research. Then the
11 creation and the derivation is part and parcel of the same
12 process.

13 DR. SHAPIRO: Alex?

14 PROFESSOR CAPRON: I do not think I do agree
15 with Larry's analysis. If it were possible to separate
16 derivation and use for categories one and two, it is
17 equally possible, it seems to me, to separate them in
18 categories three and four.

19 You described before something, which I agree,
20 which was that we had concluded that it was disingenuous
21 to say that you could support use and not support
22 derivation because you are simply passing the money, which

1 will lead to the derivation through the people who are
2 using it. The price that they pay to get them.

3 And I think, Larry, that you could equally
4 have in three and four, if you did not accept that
5 position that the two really amount to the same thing, you
6 could have someone claiming that they produce their stem
7 cells from embryos that were created from research but
8 they are not the people who are using them and it makes
9 equally good sense -- if it made any sense, it makes
10 equally good sense in that case. The researcher does not
11 have to be the person who is using them in his research or
12 her research, the person who derived them in the first
13 place.

14 So I believe that we should say that it is
15 justified to fund the use only when it is justified to
16 fund derivation because I do not think they can be
17 separated but I would apply the same logic to all the
18 categories.

19 As to the difference between category three
20 and category four, both of those would be -- have the
21 similarity of being embryos that are derived for research
22 purposes. Since you cannot now under the kinds of

1 recommendations that we have put forward at least, and the
2 logic that we support, create a cloned or somatic cell
3 nuclear transfer embryo for the purpose of reproduction.
4 The only reason to do it would be for research purposes.

5 The reason for having a separation between
6 categories three and four, as I understand it, is the
7 argument that category three, somatic cell nuclear
8 transfer, aims towards a particular therapeutic modality
9 that has special arguments in its favor.

10 And it seemed to me that the one thing that
11 was left out of your summary, Harold, was the notion that
12 for all of these categories, but particularly for those
13 that we were not prepared to say were suitable now for
14 federal funding, we imagined that there ought to be a
15 mechanism for ongoing review of this area of research that
16 could reach determinations as to whether or not the
17 argument in favor of such research is ever made out.

18 We have heard speculation today that it will
19 not be necessary in the somatic cell nuclear transfer area
20 to use embryos once the process of dedifferentiating adult
21 differentiated cells has been perfected. And if that is
22 the case, then such a panel could well say given the

1 obvious moral problems in going ahead with making embryos
2 for this purpose, and given the existence of a perfectly
3 good alternative to that, there is no reason to approve it
4 for federal funding.

5 But I think we ought to in a certain way ask
6 ourselves questions about category two in the same way,
7 which is, is this something where it is necessary for
8 research to go in this area with human cells now or is
9 this for a period of time, not as a new moratorium but
10 really as a continuation of the existing prohibitions,
11 something which deserves to be looked at in the context of
12 need? Is it necessary to achieve important scientific
13 results, which I think are regarded by everybody, whatever
14 their view on how we should go about it, everybody as
15 legitimate and important results?

16 Is it necessary now to take this step or not?
17 And we could make that determination and I think you have
18 suggested that tentatively we have. Or we could say if
19 our primary emphasis is going to be on a process that that
20 determination in which we are inclined in a certain
21 direction really ought to be made by a body that gets more
22 deeply into all the science and the arguments for clinical

1 need and so forth. I just want to put that on the table
2 as well.

3 DR. SHAPIRO: Thank you.

4 Other comments or questions?

5 Bernie?

6 DR. LO: This morning before the break two of
7 the public speakers suggested sort of an additional item
8 on table one, which was to derive pluripotential stem
9 cells from dedifferentiation of somatic cells that did not
10 pass through a totipotent stage but were merely
11 pluripotent.

12 I guess one of the issues that it seems to me
13 we ought to think about is, first of all, what is the
14 scientific likelihood of that happening so that it should
15 be -- is it plausible enough that it should be considered?
16 Should it be -- if that is an option, where should it be
17 on our table? Does it go to the top of the table as being
18 the least objectionable of these alternatives?

19 And then there is the implicit argument, I
20 think we were presented, that given -- if it is, in fact,
21 significantly less controversial or objectionable morally,
22 should it be preferentially supported for public funds and

1 what is the scientific cost of doing that?

2 I mean, it seems to me those are some of the
3 questions that are being posed to us. If there is an
4 alternative that is not morally objectionable and may or
5 may not be as scientifically promising, should it be
6 preferentially the way we should pursue things? I do not
7 know if there is enough in the science realm to be able to
8 really address that or is that just too speculative at
9 this point?

10 DR. SHAPIRO: Larry?

11 DR. MIIKE: I look at that as a different
12 issue and not before us for making decisions on. I think
13 that is a given that there is no controversy or we are
14 trying to go that route. The question for the panel here
15 and for those who object to this is that -- should we put
16 all our eggs in that basket and should we -- if we go that
17 route until we -- we would narrow the choices to that. So
18 I do not think that it is for us to think in terms of the
19 four cases as our options, as us having to deliberate
20 about where that stands in that. It is a background issue
21 and it would influence how we make our selections in the
22 four choices before us.

1 DR. SHAPIRO: Eric?

2 DR. CASSELL: This may be a little going
3 backwards a step but one of the things I noticed in this
4 morning's discussion in talking about the spare embryo
5 situation, the discussion is so abstract that there is no
6 sense of what is this object and what happens to it if it
7 is not implanted and how -- and it is not frozen, and how
8 long does that take, and what is that like in other
9 biological systems that we care about.

10 Like in organ transplantation where if you do
11 not use the organ soon enough then it has still got cells
12 but it is not good for implantation in another -- I mean,
13 somehow we have to take this away from the abstraction
14 called embryo and get it down to where we know exactly
15 what it is we are really talking about.

16 And I think that that will make it easier to
17 make these things morally distinct as well as
18 scientifically distinct.

19 DR. SHAPIRO: Thank you. I think the issue
20 of, you know, what is the state of science and what does
21 that mean is actually in my own mind pretty important for
22 us. I think there is going to be a limited amount that we

1 can find out. That is I do not believe we know everything
2 or everybody knows everything that we would need to know
3 right now to make very fine distinctions.

4 But on the issue of how one thinks about the
5 embryo and its moral status and so on, I think there is
6 more or less uniform agreement amongst us, at least that
7 is what I sensed the last time, that at the very least --
8 and this would be saying something very minimal for some
9 members of the commission -- it is something that we --
10 that it has some moral status we have to care about and we
11 have to respect and that -- to use the kind of language
12 that has often been used in this area. And, therefore, if
13 there were alternatives this would be a very serious
14 matter. I mean, if you could -- if there were viable
15 well-known alternatives today, there would be very little
16 reason to move in this direction.

17 And so while I do not think we can -- my guess
18 is we will not get conclusive scientific evidence on this.
19 I do not think we know enough yet. At least that is my
20 understanding. We will know more in a little time from
21 now. But I do think that is relevant for us. At least it
22 is relevant for me. Let me put it that way. I do not

1 want to say it is relevant for everybody. It is relevant
2 for my own consideration of these issues.

3 Moreover, you recall that the testimony that
4 we had -- I guess it was testimony of some kind -- that
5 when Dr. Varmus visited the commission's meeting at, I
6 guess, our first meeting after the Miami meeting he
7 attended -- I think it was in Washington. We began
8 talking about moving up and down the cell lineage map and
9 what that meant for how we could think of the moral
10 standing of all kinds of biological materials.

11 And this is changing in such a radical way as
12 I tried to say early on in my remarks and it threatens to
13 change in an even more radical way as we begin to move up
14 and down that cell lineage map to say nothing of whether
15 we can at some stage of the game provide alternatives to
16 the oocyte and so on. I just have no idea myself but I
17 mean given where things are going it does not sound so
18 totally outlandish.

19 It is my strong feeling that there is just so
20 much that is happening here, so much that is changing in
21 our concept of the way things are and how they might work
22 that we are going to have to be cognizant of as we begin

1 to formulate our recommendations in particular because
2 however they may appear right now and however useful they
3 might be for the next few years, if any of them would be
4 accepted. I am quite sure that they would have to be
5 modified. And we want, you know, some years down the road
6 from now we want to prepare for that as well.

7 So even if we make no recommendations -- for
8 example, on three and four, we say on three and four that
9 these should not -- would not be appropriate for federal
10 funding at this time or whatever recommendations, we
11 really want in my view to lay some groundwork for how you
12 might think about this as we go ahead. And I think if
13 there were not any benefits from this we all would agree
14 that, you know, this would probably not be in front of us
15 if there were no benefits.

16 So we have to have some view of what these
17 benefits are. The issues that were raised this morning in
18 some of the public testimony is asserting, and perhaps
19 correctly, that there are alternatives to this that are
20 sufficiently close and real.

21 We heard opposite ends of that here this
22 morning from different people who spoke. Some of them

1 spoke to the fact that there were alternatives they
2 believed that were viable and important and, therefore,
3 there was no need to go in this direction right now. And
4 we heard exactly the opposite of that from other testimony
5 here this morning. So we are going to have to make our
6 own judgments on this on the basis of the evidence that we
7 will be able to put together.

8 Bernie?

9 DR. LO: I would like to raise another issue
10 that sort of runs through and try and get a clear sense
11 how it applies to these four situations.

12 I think most people would agree that embryos
13 are deserving of special respect more than is due to sort
14 of other conglomerations of cells. I think people
15 disagree very, very strongly of how to interpret that and
16 what it means. Some people, as we heard this morning,
17 said it means you cannot do any research that denies the
18 embryo the chance to develop into a fetus and a child.
19 And others may take the view that it means that you should
20 use the fewest embryos needed to do the research.

21 I guess what I am not clear about is if you
22 have an embryonic stem cell line where you do not need to

1 sort of use more embryos to create more embryonic stem
2 cell lines to carry out the research program, is it better
3 to just sort of use what is there as opposed to continue
4 to make more cell lines? Is that a sort of point where
5 people would think that there is less objection to sort of
6 using a stem cell -- an embryonic stem cell line that has
7 already been derived and set up and growing in someone's
8 lab as opposed to taking more "spare" and excess embryos
9 and creating more embryonic stem cells at least at this
10 point in the research?

11 DR. SHAPIRO: Steve? Trish, did you have your
12 hand up?

13 MR. HOLTZMAN: This is just a real quick --

14 DR. SHAPIRO: Okay. Steve and then Trish.

15 MR. HOLTZMAN: -- which is if you look at what
16 has taken place in the history of embryonic stem cell
17 research with mice, after a certain number of passages,
18 right, cells do not work as well and so for the -- you
19 know, we have had ES cells in mice now for like 17 years
20 or so and they are continuously making new cell lines in
21 order to have the properties that you are going to look
22 for in terms of being able to control differentiation.

1 DR. SHAPIRO: Trish, I am sorry.

2 MS. BACKLAR: I think that actually I said
3 this last time. Bridget Hogan, I think, told us at our
4 meeting in Princeton that it is very difficult to keep
5 these cell lines going.

6 DR. SHAPIRO: I cannot speak as a scientist on
7 this issue at all as you all know but I have -- we will
8 know more when we review our science chapter and put more
9 credible information in front of the commission so I am
10 not -- this is not by any means an assertion but only my
11 understanding of what I have learned from speaking to
12 scientists about this, and others about this, namely that
13 to take the extreme, a single cell line reproducing
14 forever and ever and ever is just not viable and not --
15 even if you could do it, which is very unlikely, there is
16 -- it is too specific and too specialized and too much of
17 a single case to really solve most problems is what I am
18 told.

19 Now we will get better and more credible
20 statements than I could possibly give on this for the
21 commission but I think it is -- my understanding so far is
22 that while, of course, in some sense -- now I am giving my

1 own opinion -- it is better to use existing cell lines if
2 you have the choice. If that is sufficient that seems
3 quite the right place for me to be -- for one to be. If
4 it is not then one has a harder decision to make.

5 Let me get -- excuse me, Steve, I am sorry. I
6 did not see your hand. I apologize. You have to throw
7 your hand in the air here and catch my attention or just
8 start speaking.

9 MR. HOLTZMAN: The statement was made that we
10 all believe that embryos deserve a certain kind of respect
11 distinct from that which is attributable to other clumps
12 or cells or somatic cells. And the line of thinking
13 reflected in this whole conceptual scheme, as well as the
14 point you were just making of the all things being equal,
15 better not to generate new cells if you do not have to,
16 reflects a certain view, which at least in my opinion the
17 changes in our knowledge and technology are starting to
18 challenge what it means to respect an embryo.

19 And what is an embryo in the sense of where we
20 run into them in the world? The world used to be a lot
21 simpler. We only ran into embryo in women's wombs and
22 respecting it meant respecting and taking care of it and

1 letting it come to term.

2 And when we ran into somatic cells, they were
3 simply things that flaked off your skin and your hair.

4 And what has taken place in the last few years
5 is a great blurring of where we are running into these
6 things. Again I said this at the last meeting that the
7 great lesson of Dolly, at least to me, is that the clear
8 bright line distinctions between an embryo and a somatic
9 cell, and where and under what conditions a somatic cell
10 can become an embryo is up in the air.

11 And I think that ought to raise questions
12 about what is the nature of respect and I think, Harold,
13 when you said we need to look to where the science is
14 going in the sense of what is the world we might be
15 inhabiting and that reflect in our moral judgments at
16 least an awareness of that or at least our scheme I think
17 is very, very important.

18 And we may find that certain ways of thinking,
19 which given where we used to run into embryos and only run
20 into embryos that made sense, may be changing.

21 DR. SHAPIRO: Thank you.

22 Alex?

1 PROFESSOR CAPRON: There is a core of what you
2 have just said, Steve, which I agree and we have to be
3 clear in our discussion as to what we are talking about
4 but I think it is an over statement to suggest that we are
5 left with no line here and that, in effect, all the cells
6 of my body are equivalent to a human embryo.

7 The method used in Dolly produced a viable
8 embryo and became Dolly using an egg. There is no
9 indication yet that it would be possible to take a somatic
10 cell and create from that cell without the use of an egg a
11 viable organism.

12 At the very least it could be said that until
13 that manipulation has occurred you do not have a situation
14 that is equivalent to what concerned us about the embryo.
15 If we get to that point then being clear, which I agree
16 with you, this is the point which I do agree, if we get to
17 that point then being clear why we cared about the embryo
18 in the first place becomes important. It is not just the
19 adventitious fact that embryos were equated with babies
20 because they were always in the form of babies to be,
21 shortly to be, by the time we knew they were there.

22 The same issue after all has already been

1 raised by in vitro fertilization and the existence of
2 embryos in freezers or in petri dishes or whatever.

3 So I do think we have to be clear about why we
4 care but I think it is obfuscatory now to say the lines
5 are all blurred and we do not really know -- how can we
6 rely on the old standards about what are -- why we cared
7 about embryos until we are at the point that some other
8 cell, a somatic cell, goes all the way back to becoming
9 something which could become a human being if implanted in
10 the uterus.

11 We have no reason to think that that is true
12 of ordinary somatic cells absent their being inserted into
13 an enucleated egg or with a chimera process, maybe not
14 even an enucleated egg. So I -- I think we do not serve
15 clarity of thinking by over emphasizing how blurred the
16 lines are now.

17 DR. SHAPIRO: Okay. I have a number of people
18 who want to speak. Jim, then Arturo, and then Bernie.

19 DR. CHILDRESS: As we work on even the ethics
20 part of this, as well as the broader conceptual part, I
21 think the kind of question we are asking is going to be
22 exceedingly important to keep in mind, and let me -- for

1 example, I note I agree with Alex and am largely against
2 Steve at this point, but if we are trying to think about
3 whether we should have policies of respect that say do not
4 use if you can avoid using embryos in cases two, three and
5 four. Do not use -- many of you can use only a few, et
6 cetera, et cetera, and setting certain kinds of
7 presumptions.

8 But we need not actually all agree that -- on
9 the status of the embryo and exactly how much respect
10 should be deserved in some larger philosophical sense.
11 But actually recognizing the kind of moral controversy
12 that exists in a society about the embryo may still lead
13 us to support certain kinds of policies that embody this
14 sort of respect. I think that we may end up without -- as
15 we have in some other areas -- getting a consensus on
16 certain levels without getting the consensus about the
17 status of the embryo.

18 There are certain things -- that understanding
19 the terms of respect that may for some of us be justified
20 by strong convictions about the status of the embryo and
21 maybe for others justified by a recognition of the serious
22 moral controversy in the society about the status of the

1 embryo but still I think we may come to the same point in
2 terms of what the respect might involve.

3 DR. SHAPIRO: Thank you.

4 Arturo?

5 DR. BRITO: I agree largely with what Alex
6 said and I think where a light bulb goes off in my head is
7 when I hear the word "viability" and I think that is very,
8 very -- I mean, I have said this before but this is the
9 key word here for me at least because I find it more
10 reasonable and more acceptable to derive the cells that we
11 are going to be investigating from somatic cell nuclear
12 transfer techniques because at this point we do not know
13 if that embryo or embryo-like structure is totally viable.

14 Whereas, I find it more objectionable to use
15 the cells from elective abortion. I know I have said this
16 before but I am saying it again because the key word here
17 is viability because we know that those cells came from a
18 viable fetus or embryo. So that is where I feel that
19 there is some sort of -- and I have not put it all
20 together yet and once again it is obviously a difficult
21 issue. That is where I feel there is some hypocrisy and
22 some -- where the controversy lies.

1 I would feel more comfortable personally
2 creating an embryo and utilizing those cells versus one
3 that is already existing that we know has a potential for
4 human life.

5 DR. SHAPIRO: Bernie, and then Eric.

6 DR. LO: I wanted to go back to Steve's
7 question on whether these sort of new scientific events
8 are sort of rough outlines that have been part of sort
9 moral discussions.

10 I think it is important to raise those
11 questions and to ask them and we probably should provide
12 some guidance on how to think through it and I think
13 Alex's comments and Jim's comments are ones that I by and
14 large agree with.

15 I think we have to also make a distinction
16 between what -- a somatic cell may be cloned if a
17 scientist manipulates it in certain ways in the laboratory
18 versus what it can do with relatively simple things like
19 implanting it in a human uterus.

20 I mean, to some extent, you know, all sperm
21 and oocytes then are a lot closer to being potential human
22 beings than somatic cells because what you have to do to

1 make them totipotent is a lot less. And yet we felt very
2 comfortable saying, you know, there is a line between
3 gametes and zygotes. So I think that has to be part of
4 the discussion. Yes, it is theoretically possible but the
5 types of manipulation really sort of -- are not the sort
6 that you can say that the somatic cell is equivalent to,
7 to an embryo.

8 DR. SHAPIRO: Eric?

9 DR. CASSELL: Arturo, I want to pick up on
10 what you said before because I think that that viability
11 issue is important but I take it that that aborted fetus -
12 - is that viable in your sense? That aborted embryo,
13 three-month aborted embryo, is that viable? It has been
14 aborted.

15 DR. BRITO: It has been aborted, no. But then
16 it raises the complicity issue. It raises the issue of if
17 you are a scientist utilizing the cells from an electively
18 aborted fetus then what you are -- in my mind you are
19 agreeing to the fact that it was okay to abort that fetus.

20 DR. CASSELL: I see. But the fetus -- so we
21 can keep separate the acts of individuals for a moment.
22 The fetus itself is not viable.

1 DR. BRITO: We can keep it separate but I am
2 not -- that is my fear.

3 DR. CASSELL: Well, I understand that but for
4 the moment, though --

5 DR. BRITO: That is right. I do not have any
6 problem with the spontaneously aborted fetus.

7 DR. CASSELL: Right. And the same thing with
8 the excess embryo. The minute it is not viable, what is
9 that?

10 DR. BRITO: Okay. We go back. I agree with
11 one of the -- the lady with the public comment. I am
12 sorry I do not remember her name earlier. I have issues
13 with the production of excess embryos through IVF. So --
14 and that is not where we are at. I understand that. So
15 in this case I guess an excess embryo that is going to be
16 discarded --

17 DR. CASSELL: Yes.

18 DR. BRITO: -- from a legal point of view it
19 would be more useful to utilize that for scientific
20 purposes. So I would be, I guess, willing to agree with
21 that. But we do not know at what point an excess embryo
22 no longer becomes viable. I do not know.

1 DR. CASSELL: But that is the determinative
2 thing. I mean, we are --

3 DR. BRITO: Right.

4 DR. CASSELL: -- I mean, that is an issue of -
5 - a fact that can be determined.

6 DR. BRITO: Yes.

7 DR. CASSELL: Okay.

8 DR. BRITO: Okay.

9 DR. SHAPIRO: Thank you. Do you want to turn
10 your microphone off, Eric, for a moment at least?

11 Jim?

12 DR. CHILDRESS: Arturo, let me just raise one
13 question. As I understood your position, it is that if we
14 agree to use the material from a deliberately aborted
15 fetus then we, in effect, approved of the act that
16 produced the -- the act of abortion.

17 And yet -- and this is the sort of issue that
18 was discussed a lot around the human fetal tissue
19 transplantation research -- and yet if we use tissue or
20 organs from someone who has been killed in a homicide,
21 let's say, we have managed in some way to draw a line
22 between the use of those biological materials or organs

1 and the acts that --

2 DR. BRITO: The difference there -- the
3 difference -- yes, and this has been brought up and I have
4 thought about this and I have thought about this. The
5 difference there is when we use the collective "we" or the
6 community that is using this, it is not the same community
7 that committed that act of violence that killed that
8 individual versus the scientific community or the medical
9 community is the one that theoretically produced the
10 elective abortion or was involved in the elective
11 abortion. Therefore, there is more of a risk and more of
12 an association with that. Does that make sense to you?

13 DR. CHILDRESS: I can see some logic to it but
14 I am not persuaded by it.

15 DR. BRITO: I do not expect --

16 DR. CHILDRESS: Not everyone in the scientific
17 and medical community, for instance, is performing
18 abortions, et cetera. So the way you draw a line with the
19 community it seems to me to be --

20 DR. BRITO: It is illegal to kill --

21 DR. CHILDRESS: That is a separate issue.

22 DR. BRITO: Right.

1 DR. CHILDRESS: The question of legality.

2 DR. BRITO: But it is -- no, it is not a
3 separate -- it is a separate issue but that is the point.
4 It is not -- then the government or legal -- or legal
5 community and the scientific community are saying it is
6 not illegal to have an elective abortion. Therefore, the
7 next step is -- but is it unethical? No. And no one is
8 going to argue it is ethical to kill someone for no reason
9 or what have you, and it is not legal to kill someone.
10 Therefore -- do you see my logic? I know you are not
11 persuaded but --

12 DR. CHILDRESS: No, I see it but I am not -- I
13 see the --

14 DR. SHAPIRO: Could I just ask a question that
15 just comes out of this interchange? Arturo, if I
16 misunderstood, please forgive me. I am just trying to
17 understand carefully what your own thinking is.

18 An abortion a woman might choose to perform
19 herself. How would that strike you? It is not the
20 community involved. You do not have to answer now. Just
21 that as you think about it -- because I am very interested
22 in your views and hope that you will take some time to

1 write them down because I really find that very helpful.

2 Again this is on the periphery of what we are
3 discussing in some sense and so I do not want to -- Kathi?

4 DR. HANNA: I just wanted to -- for the record
5 -- clarify the issue of viability in terms of the
6 blastocyst or the embryo because in our questioning of IVF
7 clinics and my talking on the phone with people who
8 routinely practice IVF procedures I think it is probably
9 worth the commission being aware, at least if you are
10 going to try and expand on this viability issue, that some
11 of the more progressive clinics have now started a
12 practice where they do not even store what they consider
13 to be nonviable embryos.

14 So, for example, they might have several
15 embryos in culture that they are watching over a period of
16 24 hours or so and they now have some fairly good
17 indicators of which of those embryos are likely -- more
18 likely to implant successfully.

19 Now they do this for obvious reasons, which is
20 that they want to choose the most viable embryo. They
21 want their success rates to go up and they want to have a
22 successful pregnancy achieved. But what happens with

1 those that do not meet the test, they used to get
2 implanted or they got stored. Now they get discarded.

3 So I think you just have to think about the
4 fact that it is not just that all of these embryos get
5 stored now. Many of them are discarded prior to storage.
6 So when you are talking about viability I think the
7 definition of viability is also something that is
8 evolving.

9 DR. CASSELL: Just to intrude for just a
10 moment, that is why it is important for us to move from
11 the abstract statement to the science of exactly what
12 happens with those embryos.

13 DR. SHAPIRO: Trish, and then Alex, and then
14 Larry.

15 MS. BACKLAR: Then, of course, one might find
16 that those embryos that are not viable are also not going
17 to be useful to make cell lines out of so that is an issue
18 that must be faced as well.

19 PROFESSOR CAPRON: I was going to comment on
20 that point. I mean, it depends, I suppose, on whether it
21 is an aneuploidy that is the problem or something about
22 the cytoplasm of the egg or whatever, and one might be a

1 useful source and one would not -- I also wanted to
2 comment on two things.

3 I think Arturo introduced the word viability
4 particularly around the fetus in a way which is somewhat
5 confusing in that by viable at say three months of
6 pregnancy or something we mean that if the pregnancy
7 continues there is every reason to think there will be a
8 live birth.

9 But if you mean by viable the way the term has
10 been used in the context of abortion then those are the
11 very abortions which are almost impossible to do because
12 the states are free to regulate and many have to preclude
13 in any, except the most extreme cases, the abortion of a
14 viable fetus, meaning one which could at that moment
15 survive independently outside the uterus.

16 So I thought for a moment -- I am not sure
17 that was the point Eric was getting to but I think that
18 was part of the confusion.

19 To underline the point that you were making in
20 your exchange with Jim, both in the examples of some of
21 the early work of America's most preeminent euthanasiest,
22 Jack Kevorkian, and his original proposals of using death

1 row inmates as sources for research and then later for
2 sources of transplanted organs, and in the alleged
3 practices of the Chinese today in exporting organs from
4 death row inmates, both of those cause concern.

5 Jim, I would say that a little bit of our
6 reaction there about using that particular source of
7 organs I think is behind Arturo's comment and that it is
8 understandable for people to say where the woman who is
9 choosing to do the abortion is then choosing to donate the
10 fetus afterwards, we can have all sorts of protections so
11 that her decision is not manipulated by the researchers
12 either to say, well, why don't you have an abortion
13 because of the wonderful goals of research or we will pay
14 you in this way or we will give you this or that incentive
15 to do it.

16 But even absent that, there is a connection
17 which causes in his mind the kind of alarm, which I think
18 you might find if we were talking about organ transplant
19 in the Kevorkian death row U.S. context or the Chinese
20 exporting of these organs that they seem to have
21 available, which is debated whether they come from their
22 death row inmates.

1 So I think that there is a little bit of a
2 bell that goes off in my mind, although I basically agree
3 that the use of an aborted fetus is like the donation of
4 any other cadaveric tissue.

5 DR. SHAPIRO: Larry?

6 DR. MIIKE: I will just wait because my
7 comments are not related to this discussion.

8 DR. CHILDRESS: Could I just respond? It
9 seems to me that in terms of the use of death row inmates,
10 after they have been executed as a source of organs, that
11 there the big concern is that, indeed, the number of
12 executions will increase. That is also related to the
13 abortion issue but that is not the issue that Arturo was
14 raising. It is primarily a complicity issue with what has
15 already occurred. That was the important point of
16 differentiation.

17 I think most of the opposition again of the
18 death row -- the use of executed prisoners has to do with
19 -- especially in China, sort of a social cultural context,
20 it may lead to additional executions and that is a
21 parallel that is appropriate, I think, with the abortion
22 one.

1 DR. SHAPIRO: In any case, Arturo has agreed
2 that he will try to write what he thinks so we will not
3 have to imagine but we will actually have an opportunity
4 to look at that extremely carefully.

5 Larry?

6 DR. MIIKE: It was just a comment and I think
7 it is probably more directed to the AAAS and the NIH
8 working group that is going to come out with
9 recommendations.

10 We are after all talking about the promise of
11 stem cell research and so I would be disappointed if their
12 report and our's do not put it in the context of the
13 research promise because obviously the sticking point is
14 the embryonic source of some of these. So if one talks
15 about a legitimate research agenda in this area,
16 embryonically derived cells are just one part of that
17 overall picture, and I think that it would advance
18 understanding of these issues within the overall
19 scientific enterprise if that is placed in that that
20 context and that is why we get into some of the other
21 issues that Bernie raised about alternatives.

22 So I hope that we do not just sort of focus

1 blindly on the four choices and talk just about the
2 embryonic issue.

3 DR. SHAPIRO: I think we have every intention
4 to look at the broader perspective here even though the
5 request is that we come down with some recommendation in
6 this area and we have to answer that directly but I hope
7 our report will speak to certain broader issues that not
8 only will be useful now but might even, if we are careful
9 enough, be useful as things unfold in the years ahead in
10 ways that we cannot really fully predict.

11 PROFESSOR CAPRON: Arturo, one question. Do
12 you intend in what you are going to write up to explain
13 why you thought somatic cell nuclear transfer embryos were
14 a more acceptable source because as I understand the
15 argument, it is that viability there in -- suppose you
16 could produce such an embryo and divided normally, and
17 looked on Kathi's criteria as though it was going to be a
18 "viable" but we have not -- it is a question of we have
19 never had one of these born because there is a prohibition
20 on their being born ergo we can regard them as in a
21 different category.

22 That -- I have a hard time following that

1 because the notion of nonviability there derives from a
2 different source, not a lack of theoretical precedent but
3 a lack of actual historical precedent and it just seems to
4 me it would be sort of exploiting the fact that we are
5 unwilling to allow implantation and I just would like to
6 have you spell out your reasons when you write up your
7 document.

8 DR. BRITO: I will. And it is also
9 contradicting an e-mail message I sent about two months
10 ago so it shows -- a lot of these issues, you know, the
11 fact -- at what point you consider this process as a
12 continuum. Is it 14 days? Is it at fertilization? If
13 you worry about the gametes -- I still have not decided on
14 that. So I will try my best to outline them and maybe in
15 doing that I can -- but I know where you are coming from
16 there.

17 DR. SHAPIRO: Larry?

18 DR. MIIKE: Just to revisit a topic that I
19 think Bernie introduced. When we look at the four broad
20 choices that we are dealing with, I think in our initial
21 discussions earlier I said that I really had basically no
22 objection to three or four from an overall conclusion

1 side.

2 The issue was federal funding and I think that
3 that is the -- do we have to come up -- and I think -- I
4 know several of you will have differences about what you
5 would feel morally and comfortable about in supporting but
6 feel uneasy about federal funding in those areas.

7 So I think that is an issue that we have to be
8 very clear about, about why we feel one way on one end and
9 the other way on the other.

10 DR. SHAPIRO: I think that is right. That
11 issue has come up a number of times and we will have to
12 clarify that. I want to come back in a little while, and
13 perhaps we will probably take a break in five or ten or
14 fifteen minutes, and then we will come back to some of
15 these issues because I want to also revisit with the
16 commission if we are going to draw the line somewhere,
17 where people's feelings are at least at this morning,
18 regarding where that line should be drawn. Is it one,
19 two, three or four, and the use versus derivation, and so
20 on.

21 There is another issue, which I think is
22 important, if any of you -- any of the members of the

1 commission have any views on it, it would be very helpful
2 as we begin to develop or produce the ethical framework
3 that is going to underline -- that will eventually have to
4 underlie our recommendations.

5 And that is if we are going to recommend that
6 there be some situations where a derivation of stem cells
7 would be appropriate for federal funding, particularly
8 let's just take the case two just as an example. We have
9 to be able to articulate and should be able to articulate
10 on what basis we think this may be so. Of course, we have
11 the issue of a scientific promise and so on. We think
12 that is important but we do not think that is sufficient
13 all by itself.

14 And, therefore, inevitably one is drawn to the
15 -- in my judgement, inevitably one is drawn to asking
16 one's self the question that has been around for a long
17 time and no one has been able to resolve -- I mean many
18 people have resolved it in their own minds but have not
19 convinced others -- and that is the -- how we are going to
20 think about the moral status of the embryo. There is lots
21 of commentary on this -- on every conceivable point in
22 this spectrum here. People -- different people feel

1 strongly about their own views.

2 But there is no way of escaping the fact that
3 if we are going to say that it is legitimate or it is a
4 legitimate object or project for the use of federal funds
5 that one has to have a view of what the moral status of
6 this is and more important than that how does one go about
7 -- not arguing that so much but how does one go about
8 supporting that? How does one articulate that in a way
9 that is satisfactory to one's self and one's own view of
10 why it is this seems to be appropriate?

11 We have heard this morning, and these
12 arguments have been raging around the world for a long
13 time, there is nothing new here between those who have a
14 very definite view about, for example, the moral status of
15 a fertilized egg or the embryo, and there are alternative
16 views of that -- what that moral status is.

17 But that is as we have just -- as I just try
18 to think ahead and try to imagine how we are going to
19 develop our thinking on this and how we will develop our
20 arguments on that, the framework by which one reasons here
21 is really quite important. And so if any of you have any
22 views of that -- we, of course, will be working on that

1 but if any of you have any views on that, that will also
2 be very helpful to us as we think through drafting
3 material for your consideration.

4 So if any of you have something you want to
5 think about for a little while before -- a little while,
6 in this case being ten minutes, not weeks -- that is
7 really going to be quite important. I do not think we --
8 I do not think we should sidestep that issue and just
9 issue sort of a declaration on the matter.

10 So, Larry?

11 DR. MIIKE: The other issue is whether we take
12 a narrow focus about the derived issue for stem cell
13 research or we deal with the embryo itself. I do not
14 think we have reached any conclusion on that and obviously
15 some of our contracted papers tell us that we must address
16 those issues.

17 DR. SHAPIRO: Yes. Other comments before we
18 break?

19 Okay. Let's take a 15 minute break. It's
20 3:15. Let's reassemble at 3:30.

21 (Whereupon, a brief break was taken.)

1 DR. SHAPIRO: I would like to get our meeting

1 started again if I could have the attention of the
2 commissioners.

3 There are a number of issues that we are
4 going to have to address as we work our way through this.
5 I would just like to highlight some of them to make sure
6 that commissioners as they try to think this through
7 either provide us with their own views -- they may have
8 some comments right now but in any case it is something
9 that will be important to us as we write this report.

10 First of all, as has been said and as we have
11 reminded ourselves a number of times, what we are trying
12 to do is to come up with some suggestions with respect to
13 federal funding in this area. That is a different
14 matter. That is a somewhat different matter than just
15 dealing with the issue as a general issue for society as
16 a whole.

17 I think it will be quite important for us to
18 be able to articulate what the benefits are for making --
19 if it is appropriate for federal funding. We could make
20 all kinds of arguments regarding how good an idea this is
21 for various people to pursue. It is yet an additional
22 supplementary argument perhaps to say not only is that

1 true but for various reasons it is important that the
2 federal government participate in the form of sponsorship
3 of some of this kind of work. That is a very, very
4 important element of what we are doing. That issue is
5 discussed in a number of the papers that you have had in
6 your book both this time and last time. I do not think
7 that is an issue which would cause us any difficulty but
8 nevertheless we will have to articulate that.

9 So if any of you have some ideas which you
10 think are important for us to include regarding the
11 special reasons or any reasons you might have why the
12 federal government should participate in the sponsoring
13 of this kind of research. It is very important for us to
14 understand what your intentions are in that regard.

15 So let me just see if any of you have any
16 comments right now. If not, that is something I
17 certainly would like to hear from everybody or for those
18 of you who have views on this matter I would like to hear
19 from you. But anyone now want to speak to that issue
20 right now or is that an issue you are comfortable with
21 and so on?

22 Alex, all right, if you want to.

1 PROFESSOR CAPRON: As you say, we have heard
2 a number of times that there are two advantages to
3 federal participation. One, it involves the oversight
4 mechanisms, whatever we are designing especially for this
5 area and the general IRB type oversight mechanism, which
6 may not occur with privately funded research. And I
7 think our experience with the whole in vitro area having
8 been excluded from federal funding and the way research
9 is carried on with patient dollars on patients with much
10 less supervision than would have been the case if it had
11 been done at NIH is an example we can cite.

12 The second argument that was raised, and
13 which I think has some merit but I do not think we heard
14 all the evidence about it, would be that the sponsorship
15 of this primarily or solely by Geron and other private
16 corporations may lead to either -- to various forms of
17 protection of intellectual property through patents or
18 trade secrets or whatever, which are not conducive to the
19 best development of science in this field and the
20 accessibility of the techniques to the broadest
21 therapeutic use. I think I would want to know more a la
22 Blumenthal's and other people's background material on

1 that.

2 The point that I hope we will not confuse
3 here is that we have to argue for the funding of this
4 area compared to other priorities in science. I do not
5 think we are in a position to make that judgment and
6 anything that we say about the importance of the federal
7 government should be, it seems to me, paying for this.
8 That is it should be said in the sense of not having a
9 prohibition on it rather than -- or the value of not
10 having a prohibition on it rather than this is research
11 that should be -- should be funded when there may be
12 other more valuable research for those dollars that we
13 are just not competent to judge.

14 DR. SHAPIRO: I think it is true that -- the
15 very last point that you make. It has always been my
16 understanding that we were not setting the scientific
17 agenda for NIH or anyone else. We have views on this but
18 that is not what this commission is about.

19 Would you -- in addition to the issues, the
20 two items you raised -- there is a third item which comes
21 up, I believe, in some of the material that has been
22 prepared for us, which just deals not so much with the

1 exclusion of a very large proportion of the community
2 that could work on this as opposed to the fact that it
3 happens to be -- the part that does work on it is in the
4 private sector and that may have certain characteristics.

5 Independent of that is another issue, it
6 seems to me at least, that is the exclusion of any large
7 group that might bring some vitality to the work in this
8 area.

9 PROFESSOR CAPRON: Well, the difficulty with
10 going very far with that argument is certainly some
11 researchers in the in vitro field simply left the federal
12 government and went to private clinics.

13 DR. SHAPIRO: Right.

14 PROFESSOR CAPRON: And Thomson himself wore
15 two hats. So he was able as a researcher both to be
16 doing federally funded research in one lab and Geron
17 funded research in another. So I am not sure that the
18 latter argument is as convincing as it would be if we
19 were faced with people sort of having to commit
20 themselves to be federal -- I mean, I am not sure you can
21 be a federal employee and do it that easily but certainly
22 if you are a researcher in the universities you could --

1 with some difficulty. I mean, it is more cumbersome but
2 it is not -- it does not seem to me it excludes a whole
3 category of excellent scientists from ever working in
4 this area.

5 DR. SHAPIRO: Bernie and then Eric?

6 DR. LO: To try and develop further the
7 thoughts that Alex has been setting forth, I think there
8 are a number of arguments that fall into the category of
9 NIH support could arguably enhance the quality of
10 scientific work, and there are things like the peer
11 review process at NIH is a lot more thorough and a lot
12 more rigorous than typically may take place in the
13 private sector.

14 It is often investigator initiated research,
15 which means there is sort of a broader base of ideas and
16 it is thought that a lot of good ideas need to come from
17 different people rather than one person or one company
18 driving the research agenda.

19 I think this point that Harold and Alex were
20 just talking about in terms of attracting a larger number
21 of investigators, of which a lot would -- some would be
22 of much higher quality -- it is a real hassle to set up a

1 lab to do this kind of research now. You basically have
2 to set up a whole separate lab and have very strict
3 bookkeeping and accounting to be able to demonstrate that
4 no federal dollars were used even indirectly. You have
5 to make sure that the paper in your Xerox machine was not
6 paid for by federal grant. So you basically have to have
7 two completely different labs.

8 And I think there are a lot of investigators
9 who are not willing to do what Thomson and Gearhart did
10 or institutions may find it difficult to do.

11 But more than that I think it is the younger
12 investigators, not the established stars in the field,
13 who just may not be in a position to do that kind of work
14 and it is typically the -- you know, certainly under the
15 current set up at NIH they are really pushing the R01
16 series grants for young investigators to sort of launch
17 their careers in a long term basis and I just do not
18 think that is the way -- Steve could contradict me but I
19 do not think that is the way a lot of privately funded
20 research works.

21 Finally, I think the NIH gives you a
22 mechanism for long term support and that once you start

1 getting NIH grants, you know, there is the expectation
2 that at the end of the grant if the work goes well you
3 will turn around and write another grant. So people
4 really view that as a potential long term support for an
5 ongoing research program. Again, a lot of things you
6 hear about public -- privately funded research is that if
7 it does not really pan out, not in a scientific sense but
8 in a commercial sense, the longer research may be cut off
9 and you may be left scrambling.

10 So for a young researcher it is just harder
11 and a bigger risk and I think not as easy to do so there
12 are a whole lot of arguments that put together suggest
13 that the quality of the research will be better if there
14 is federal support for it.

15 DR. SHAPIRO: Eric?

16 DR. CASSELL: I think all those are good
17 arguments and they are practical arguments but there is
18 also the case that I have difficulty seeing us as a
19 bioethics commission coming up with a partition that
20 divides its ethical here and it is not ethical there.

21 If the arguments are good, and I think we
22 have persuasive arguments, then, in fact, it ought to be

1 across the spectrum of funding for research and I would
2 find it difficult, though I also understand there are
3 practical reasons why that might come about.

4 But I would think that to some extent we
5 would not have succeeded if there was a partition between
6 the kinds of funding.

7 DR. SHAPIRO: Steve?

8 MR. HOLTZMAN: I would caution two lines of
9 argument against -- or at least be careful about the two
10 lines of argument I have just heard but encourage a
11 third. The first -- Alex said he would tentatively --
12 this whole issue of the accessibility to the results of
13 the research.

14 Under the Bayh-Dole Act, federally sponsored
15 research, universities may license it under an exclusive
16 basis and that can prevent others from getting at it.
17 So, for example, it is important to know that the
18 fundamental patent covering primate stem cells, including
19 human stem cells, held by the University of Wisconsin
20 licensed exclusively to Geron was from federally funded
21 work. So I think when we look at this we need to look at
22 it very carefully.

1 Second, I would caution against the whole
2 issue of quality of the research. I am not sure I would
3 want to say in any sense categorically that research
4 going on by investigator X at Harvard on day T-0 is
5 better in quality than when he moves across the river to
6 Millennium and is conducting exactly the same research.
7 Okay.

8 (Simultaneous discussion.)

9 MR. HOLTZMAN: With better equipment and with
10 better reagents, et cetera, et cetera. Okay. And often
11 because --

12 (Simultaneous discussion.)

13 MR. HOLTZMAN: No, there are no assigned
14 parking spots.

15 So I just want to be -- we need to -- but I
16 do not even think we need to go there because I do
17 believe we have had a very, very successful biomedical,
18 industrial, academic complex in this country which has
19 produced the best medicine in the world and there has
20 typically been a role for both.

21 What is disturbing in the current context is
22 industry is being assigned the exclusive role to go back

1 and do the most basic kinds of research in this area and
2 it would be much more effective if the academic community
3 was able to do that on the basic processes of cell
4 division on the basic factors that are involved in these
5 differentiation processes and that the industry could
6 focus on, for example, what does it mean to produce a
7 QC'd stable cell line of a certain kind, and that you
8 would have a better division of labor.

9 DR. SHAPIRO: Thank you.

10 Larry?

11 DR. MIIKE: I have said this before and it is
12 -- I do not know whether it is true or not but to me from
13 what I understand about this -- the potential in this
14 area is so enormous that it would cripple NIH as a
15 research institute if they shut off this. So I use the
16 word "NIH" as a second class institution as a
17 possibility.

18 DR. SHAPIRO: Thank you. Let me move our
19 discussion. That is very helpful. Thank you all for
20 those remarks. Let me move the discussion to another
21 area, which in some sense is also -- maybe really a
22 little more straightforward but maybe not. I am in any

1 case very anxious to get commissioners' response if they
2 have any, and that is the question of oversight.

3 It has been mentioned a number of times as
4 various people have talked today about case one or case
5 two and so on but there is -- any views you have
6 regarding what would be the appropriate level of
7 oversight regarding work in this area, I think, would be
8 helpful as we try to build the structure of an argument
9 here together and some recommendations that we might put
10 together.

11 So does anyone have any views regarding
12 appropriate levels of oversight? Let's take case one and
13 two for the moment that we -- obviously, analogous things
14 in case three and four if we get there and so on.

15 DR. CASSELL: Just as a question of
16 information. Could we hear more about what the British
17 system of registry and so forth is some time even if it
18 is just a brief --

19 DR. SHAPIRO: We certainly can. As a matter
20 of fact, I have in my briefcase a description of it which
21 I would be glad to give to you or have -- Eric, I will
22 distribute it. Essentially you need a license is the

1 essential response. But, yes, I will give that to you
2 and we will certainly supply it to everyone.

3 Bernie?

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1 E V E N I N G S E S S I O N

2 DR. LO: Let me just sort of go back in time
3 and set forth some of the recommendations of the much
4 maligned 1994 Human Embryo Committee suggested in terms
5 of oversight because I thought actually that was some of
6 the most interesting things that commission -- committee
7 did.

8 We were very concerned about how to provide
9 meaningful oversight in a very complicated and very new
10 situation and the proposal was made that there be a time
11 limited national review of this research for a number of
12 reasons. First, concerns about whether local IRB's were
13 really in a position to sort through all the difficult
14 issues both in sort of the large scale issues and
15 specific issues having to deal with particular cases or
16 protocols.

17 We also thought that in a new area there was
18 a value to trying to sort of bring together experience on
19 a series of cases to sort of derive or infer or bring
20 forth a set of guidelines that could then be used by
21 other -- together with case examples, which could be used
22 in a more sort of decentralized way.

1 Pat King coined the sort of term sort of a
2 common law set of cases of protocols involving human
3 embryo research.

4 At the same time there were concerns about
5 setting up an administrative body that could have a lot
6 of drawbacks, including the situation of requiring
7 approval from a body that if it was not appointed could
8 never approve anything and, therefore, no research could
9 proceed. So there is a lot -- some attention given to
10 how you would actually make that work without either
11 making it very cumbersome or providing the opportunity to
12 stifle the research by just not providing the appointment
13 of the members of an oversight committee.

14 But I think that the line of thinking that
15 said that we were very -- given the newness of this work,
16 the clear moral controversy surrounding it, if it were to
17 be federally funded it would deserve oversight above and
18 beyond the oversight that is now part and parcel of every
19 sort of NIH review grant. We are not convinced that
20 either the study sections nor the councils at NIH nor the
21 individual IRB's was going to provide the level of
22 oversight that would really persuade the public that this

1 was all being done in a responsible manner.

2 DR. SHAPIRO: Other comments regarding the
3 issue of oversight? Alex?

4 PROFESSOR CAPRON: We have had at previous
5 commission meetings analogies made to the Recombinant DNA
6 Advisory Committee, which has some of that same kind of
7 history, Bernie, of a common law in the sense of cases or
8 situations being considered and then in light of a
9 pattern rules being derived and changes being established
10 in what can be reviewed without the national review and
11 what continues to need the national review.

12 It seems to me that is germane here even if
13 it is not a 100 percent match. I mean, after all, the
14 Recombinant DNA Advisory Committee did come into being
15 before there was any human gene therapy and it was, as in
16 this area, dealing with issues of basic science. Now the
17 reason for concern was not that there was something
18 morally wrong about manipulating E. coli but rather that
19 there was dangers of a physical sort to health workers,
20 researchers and the community. But that is an example of
21 federal regulation of basic research.

22 As it has moved into gene therapy there is

1 even a closer analogy because many of the same kinds of
2 concerns arise and as the committee is now considering
3 again the issues of germ line gene therapy some of the
4 same questions come up about trade offs that have to be
5 made. Is the justification for doing a particular kind
6 of therapy on an individual which risks is very likely to
7 cause a change in their germ line sufficient that it is
8 justified -- that it would be justified to go ahead even
9 though that change is one which, in effect, creates an
10 experiment on an unborn child in future generations?

11 And that seems to me comparable in some ways
12 to the question of is there a justification for moving,
13 for example, to somatic cell nuclear transfer embryos as
14 sources of germ line cells where there is now, let's say
15 some years in the future, enough animal research to show
16 that the therapy would likely succeed in human beings if
17 tried in them, and if it turns out that our best hopes
18 for the use of re-differentiated somatic -- adult somatic
19 cells does not pan out.

20 I mean, you cannot create heart valves or
21 livers from skin cells of people or whatever. And so it
22 seems to me that that is worth having a body that can

1 react to changes in the science and we could use the RAC
2 as a partial analogy just as we could also draw the
3 earlier report as Bernie suggested.

4 DR. SHAPIRO: The suggestion here that I hear
5 from both Alex and Bernie is that if we were to recommend
6 proceeding, for example, with cases one and two, that a
7 part of that should be some type of national oversight.
8 It might be a RAC type group which issues certain rules
9 which tell you when you have to come to the central -- or
10 when you do not, so on and so forth. I am not worried
11 about the details about this at this moment but just to
12 whether you think we should try to construct some type of
13 oversight of that type.

14 PROFESSOR CAPRON: I would love a word or two
15 from Eric since he has the direct, I think, first hand
16 experience of the Secretary's Advisory Working Group.
17 When the RAC began, it was a fairly small group looking
18 not at regulations at that point. It was just really
19 giving guidance to the secretary. And within a
20 relatively brief period of time its mandate and
21 membership and form of meeting was broadened.

22 It seemed to me that what Harold Varmus had

1 come up with was more like that than I had expected. I
2 had originally thought in his description he was really
3 talking about sort of the heads of the departments were
4 going to have an advisory group to him. But it is a
5 group chaired by people from outside the department, et
6 cetera, et cetera.

7 So it may already more closely resemble this
8 and the question is, is it an ad hoc group to draft a set
9 of guidelines which will then be self-administering or is
10 it already conceived of as a group that would be a
11 standing committee that could serve the very functions we
12 are talking about?

13 DR. MESLIN: Well, maybe just very briefly I
14 can direct you to tab I, 4-I, and that gives me an
15 opportunity to just correct for the record there is a
16 document that says, "Charge to the Working Group," which
17 is a document that was not widely distributed so NIH
18 wanted to let me -- wanted me to remind you that this
19 charge to the working group, which is in your materials,
20 was not formally sent out all over the place and
21 apologies that it was given the impression that it was
22 signed off on by everyone.

1 In any event, the working group to advise the
2 advisory committee of the director, which met recently
3 and has produced the guidelines, a draft set of
4 guidelines, which I would say, if there are NIH people
5 who may wish to speak to this, are now being worked on,
6 has a statement that describes what they believe ought to
7 occur and it talks about informed consent and it talks
8 about areas of research that are ineligible for funding.

9 What they did not do extensively at that
10 meeting was talk about the actual oversight mechanism
11 that would occur. Discussion was not finalized and that
12 working group to the ACD will be producing yet another
13 document.

14 I would recommend that we wait to see what
15 that document looks like when it is published in the
16 Federal Register in the next couple of days but, unless
17 anyone from NIH in the audience wants to speak to this
18 issue, my understanding is that they are working on that
19 particular mechanism.

20 It is -- I remember Jim Childress raised this
21 at a very -- a much earlier meeting.

22 It is the point you just raised, Alex.

1 It has gone beyond just the administrative
2 review type model. There has been concern about having
3 public membership raised and certainly Dr. Varmus has
4 mentioned that in testimony before the senate as well as
5 in other materials.

6 DR. SHAPIRO: I do not want to take too much
7 time on this now but I do not hear any negative reaction
8 to the fact that as we think through oversight,
9 regardless of who the body is and how it is appointed,
10 which is of course very important, that some type of
11 responsibility at the central part of this at a national
12 level is appropriate.

13 Is that fair or unfair? Does anyone think
14 that is inappropriate or somehow creating a monster of
15 some kind that we will not know what to do with later?

16 PROFESSOR CAPRON: I hope we -- if we go this
17 way, I hope we exploit --

18 DR. SHAPIRO: Of course.

19 PROFESSOR CAPRON: -- the strength of it for
20 us, which is not every issue has to be resolved.

21 DR. SHAPIRO: Right. Exactly.

22 PROFESSOR CAPRON: Which is prudence rather

1 than cowardice in my view.

2 DR. SHAPIRO: All right. We will not poll on
3 that issue itself but that is right.

4 Bernie?

5 DR. LO: Another point that we might want to
6 think about is if such -- if there is federal funding and
7 if such a national oversight body is set up, should they
8 be allowed to review research funded in the private
9 sector which would otherwise not have to go through
10 review and should, in fact, such research be encouraged
11 to go to that body to provide some assurance that all
12 research, whether or not it was federally funded?

13 A couple of meetings ago we had the ethics
14 committee from Geron come and speak to us and it struck
15 me that that was really formed after many of the crucial
16 decisions were made and they were sort of asked to sign
17 off on something that happened and not provide really
18 prospective oversight.

19 Again, I think the public could be very
20 concerned about whether the types of "oversight
21 mechanisms" set up in the private sector by some of the
22 companies doing this research really provide the kind of

1 meaningful oversight that is desirable.

2 DR. SHAPIRO: Kathi?

3 DR. HANNA: I just wanted to get some input
4 from the commissioners about whether you think it is
5 worth us trying to find out whether non-NIH federal
6 agencies are interested in this kind of work. I have
7 raised this issue before. We tend to think in the NIH
8 paradigm and the congressional ban only applies to NIH.
9 Supposedly if VA wanted to do this work now, they could.
10 Do we want to -- when we talk about some kind of national
11 oversight, do we want to think about whether other
12 agencies should feed into that system or do we just want
13 to keep the recommendation specific to NIH?

14 DR. SHAPIRO: Bernie?

15 DR. LO: Well, I think again there is
16 different levels. The general principle that this
17 research is new enough and controversial enough that it
18 deserves careful review, I think we should agree on how
19 to do that if a lot of different agencies are doing it
20 and having jurisdictional turf problems, I think, is a
21 second order question but I would hope that we would
22 agree that it does not matter who is doing it, it ought

1 to be scrutinized pretty carefully.

2 PROFESSOR CAPRON: And again the RAC
3 experience is relevant here because -- on both scores
4 that you have just raised. The RAC looked at privately
5 funded research and, indeed, at first there was a very
6 strong encouragement that private sponsors should use the
7 RAC and the responsible thing to do was to use them. In
8 later years, Dr. Varmus became skeptical of what was
9 happening in the gene therapy area on the sense that the
10 RAC was being used to give a false imprimatur of NIH
11 level review to protocols that would never have made it
12 through a study section at NIH and that this was -- the
13 private sector really exploited this opportunity for
14 publicity. So there is a tension there.

15 But, likewise, on the second point, Kathi, I
16 believe we should get somebody to do a little of the
17 history on this but work that eventually was spun off to
18 the Department of Agriculture and so forth in terms of
19 the manipulation of plants and to the Environmental
20 Protection Agency was initially reviewed by the RAC. And
21 it was only as they got to industrial scaled things that
22 seemed to be sort of "me too" phenomenon where they knew

1 what they were doing or agricultural things that were in
2 that same category then it became apparent that this
3 really ought to be handled by an agency with more
4 expertise on environmental issues or on agricultural
5 issues and it was divested from the RAC. But that was
6 stuff which -- I do not know how much of that was
7 federally funded as such but some of it probably was.

8 DR. SHAPIRO: Okay. I think that I would
9 like to go on to some other issues now but that has been
10 very helpful and we will start to try to formulate in our
11 minds some kind of process here which are going to be
12 responsive to the kinds of issues that were raised here
13 this afternoon.

14 I guess the issue I would like to go to next
15 is really a question to turn our attention to the overall
16 structure of how we are approaching this. Now we have
17 been encouraged from the beginning to approach this in
18 steps, i.e. from the most controversial -- from the least
19 controversial to the most controversial, however you want
20 to go up or down that scale, and that is legitimate.

21 I think -- I think that is a legitimate -- I
22 think the point Jim was making before, I hope I do not --

1 have not misunderstood you, Jim -- was that one approach
2 we could take would be that -- some people might believe
3 that that is -- for their own moral and ethical reasons
4 consider that an appropriate approach. That is they feel
5 comfortable for their reasons with cases one and two
6 again, for example, and not so comfortable with three and
7 four. Or perhaps, Arturo, it would be one and three and
8 not two and four. I mean, I have -- I do not -- I mean,
9 not everyone would have the same ordering here. I think
10 that is clear. But you could feel that way because of
11 one's own consideration of the moral and ethical issues
12 involved, however you understand them.

13 One, however, could also feel that way for
14 another reason, namely that there are differences of
15 opinion on these issues in our country and we might feel
16 that we have to recommend or should recommend something
17 that is responsive to that fact. Something that is
18 sensitive to the fact that there are differences of
19 opinion and people have strongly held views on different
20 sides of this issue.

21 And, therefore, given the scientific agenda
22 and given the benefits and so on that we see that it --

1 as a matter -- to use a word that Alex used just a few
2 moments ago -- it is a matter of prudence to take a
3 single step now or recommend -- I should say, of course,
4 we are not in charge of any steps. We are just going to
5 be recommending something now, allowing more time for
6 further discussion, clarification and other issues, and
7 not having to resolve all the issues right at this
8 moment.

9 That -- it is really quite important if we
10 are sort of comfortable with that general approach
11 because how we articulate the positions will change
12 somewhat. Rather than having to put forward, for
13 example, a particular moral perspective that we would
14 then have to argue dominates all the others, which, I
15 think, as we all know, would be a difficult task.

16 We could look at the issues that are there
17 from various points of view and then say, "Well, in view
18 of all this, this is the kind of thing we think is
19 appropriate at this stage."

20 So that is -- Jim, forgive me if I have sort
21 of summarized or caricatured your point rather than do it
22 justice.

1 But I think that is an important issue for us
2 and I really would appreciate any reactions various
3 committee members might have as to whether that might be
4 a useful avenue to try to articulate in a careful and
5 thoughtful way.

6 Any views about that?

7 Arturo?

8 DR. BRITO: In terms of ordering them, it
9 seems to me that the most logical way and the least
10 controversial way would be ordering them or ranking them
11 -- not ranking, ordering them in terms of what is most
12 allowable legally to least allowable legally and not
13 phrase it in the term of morally or ethically. That way
14 you avoid the controversy of what -- and approach it from
15 that angle.

16 DR. SHAPIRO: That is one way. I will let
17 Professor Fletcher speak for himself since we have tended
18 to use the cases he suggested. I understood them to be
19 from least controversial to most controversial, is the
20 way I understood it. Have I misinterpreted it?

21 DR. FLETCHER: That is right.

22 DR. SHAPIRO: And that may also -- they may,

1 in fact, sort of relate to this other categorization
2 also.

3 DR. BRITO: But most controversial and least
4 controversial in whose point of view is obviously the
5 question.

6 DR. SHAPIRO: Exactly.

7 DR. BRITO: My question, Dr. Fletcher, would
8 also be does that -- I have not really thought about it
9 in this way but does that coincide with what is most
10 legal and least legal or least likely to be legal?

11 DR. MESLIN: Would you come to a microphone?

12 DR. FLETCHER: I had not factored in the
13 legal aspect. I was thinking in terms of degree of moral
14 controversiality. But case one is legal both federally
15 and in the states. Case two is illegal federally but
16 legal in every state except Louisiana. Case three is --

17 DR. SHAPIRO: It is a legitimate -- do you
18 mean legally federally -- that just means that it is
19 illegal federally, that is you cannot use federal funds?

20 DR. FLETCHER: Federal funding.

21 DR. SHAPIRO: It is not a federal crime.

22 DR. FLETCHER: No.

1 DR. SHAPIRO: But you cannot use federal
2 funds.

3 DR. FLETCHER: I meant illegal to use federal
4 funds.

5 PROFESSOR CAPRON: You are speaking
6 derivation now.

7 DR. FLETCHER: Yes.

8 Case three has never been tested but is -- in
9 theory would be legally permissible except with federal
10 funds. And case four is like case two in the legal --
11 that is legally considered.

12 DR. SHAPIRO: From the point -- I am just
13 trying to think through this quickly. I had not quite
14 thought about it this way, Arturo, but case two, three
15 and four are illegal in the federal sense the way you
16 have been talking about them but there is no -- other
17 than Louisiana, there is no other legal constraints.

18 DR. FLETCHER: That is correct.

19 DR. SHAPIRO: So there is -- in some sense,
20 similarly legally although it might be hard to order them
21 that way.

22 DR. CHILDRESS: But there are some state laws

1 relating to the creation of using human cloning to create
2 a --

3 DR. SHAPIRO: Yes.

4 DR. CHILDRESS: -- child.

5 DR. SHAPIRO: In more than one state, right.
6 Two or three. Two states.

7 DR. CHILDRESS: California. And which other?

8 PROFESSOR CAPRON: I cannot remember. Is it
9 Minnesota, Maryland -- they are not close to each other
10 but there is one other state besides California.
11 California did it first.

12 DR. SHAPIRO: Yes.

13 PROFESSOR CAPRON: Michigan.

14 DR. SHAPIRO: Michigan.

15 (Simultaneous discussion.)

16 DR. CHILDRESS: It is Michigan, I think.

17 PROFESSOR CAPRON: Okay.

18 DR. SHAPIRO: I think that is correct. Some
19 states.

20 (Simultaneous discussion.)

21 PROFESSOR CAPRON: No, no. This is cloning
22 we are talking about. I think it is California and

1 Michigan. But the aim -- they are badly drafted perhaps
2 but I think aim at reproductive cloning and so they would
3 not reach except if they over reach -- that is to say if
4 you are making it in the lab and you have an embryo that
5 you have created in this fashion you might now take the
6 next step and so we are going to make life difficult for
7 you in some way.

8 Arturo, it seemed to me that a lot of the
9 time in this area what we say is that the law ought to
10 reflect considered moral judgments and so the question
11 that I thought Harold was putting to us was, was there a
12 way in which we could show that there is a large overlap
13 as to what policies people, who actually reason somewhat
14 differently ethically, would agree is a sensible policy
15 translating that into law rather than in this area
16 expecting the law to be the primary guide.

17 I mean, we are really at the edge of
18 formulating a legal response to many of these things and
19 certainly those people in the congress who have said that
20 they, having agreed with prior bans on embryo research,
21 are moved by the notion that stem cell -- the prospect of
22 benefit from limited forms of stem cell research are

1 great, have seemed to indicate that they wanted us to
2 consider, they would like a consideration of whether the
3 policy ought to be changed in light of moral reasoning.

4 And I thought Jim's suggestion of the way to
5 proceed was a sensible one because Harold says it may be
6 extraordinarily difficult for us to say this one ethical
7 view trumps all others.

8 DR. SHAPIRO: Just as a point of information,
9 I do want to point out there is something, which I have
10 not read carefully yet because I have just received it
11 yesterday, what I think you all have is a draft of Lori
12 Andrews' material on state regulation of embryo stem cell
13 research and so on. My brief glance at it late last
14 night seemed -- made me feel it really was quite a good
15 compendium and might be very useful for all of you who
16 want to, you know, check up on this and get a little more
17 informed on this. I think this is -- I know we have not
18 had a chance to read it because you all got it too late
19 but it is, I think, a useful thing for us to have.

20 And when reading this if there is more
21 information you want on this legal type issue, please let
22 the staff know. This seems quite comprehensive but at

1 least let us know if you want more information.

2 Did we interrupt you?

3 DR. FLETCHER: About the recommendation that
4 the commission adopt a legal basis for its
5 recommendations about these cases. My own thinking about
6 this is that a moral argument is necessary to discuss
7 federal funding in any of these respects because of what
8 Alex said about the law being a reflection, we hope, of
9 broadly acceptable moral considerations.

10 The law expresses our values and our moral
11 ideals. In my recent paper or draft of it, I discussed
12 the concept or the relationship of law and morality and
13 that law can be a floor for morality but not the ceiling.
14 It is not the ceiling of our moral ideals.

15 So in that framework and where I am going
16 with the main moral argument in the paper is as follows:
17 That analysis of the cases shows that case two is more
18 like case one than it is like cases three and four if you
19 accept the argument that the discard issue makes it more
20 like case one. It is true that is different because
21 embryos die in a different way in case two than fetuses
22 die in case one.

1 But even if you find that close similarity
2 that is still not enough to make a convincing moral
3 argument that federal funding ought to support
4 interagency -- and I would say, Kathi, NSF activities. I
5 think the National Science Foundation is quite interested
6 in this issue and would probably fund some basic research
7 here but a convincing moral argument is needed.

8 In thinking about this and in rereading
9 Ronald Dworkin's work in Life's Dominion and a rereading
10 of Commissioner Charo's work on her reflections on the
11 ethical work of the Human Embryo Research Panel, I am
12 considering, and I am writing about, a twin argument in
13 terms to support the concept of federal funding of case
14 two.

15 On the one hand rather than focusing
16 exclusively on the moral status of the fetus -- of the
17 embryo, as I think that you can be so focused on that
18 issue that you freeze in terms of the two dichotomous
19 views that are represented by the Human Embryo Research
20 Panel's report on the one hand and the ban on the other.
21 And whenever I think about Washington I do not think
22 about it these days as divided by the Potomac. All

1 right. I think about the Human Embryo Research Panel's
2 report and its pluralistic approach to the moral status
3 of the fetus that brought many criticisms on the one hand
4 and the federal ban on the other.

5 And I think the NBAC has an opportunity to
6 push beyond that and using Professor Dworkin's framework
7 I think it is a step deeper -- it goes a step deeper and
8 it would go like this: That if what could unite
9 conservatives and liberals on this issue beyond their
10 differences about the moral status of the fetus is
11 intrinsic respect for life and you look at what people on
12 both sides of the issue -- how they would interpret that
13 principle in this situation -- conservatives do not
14 believe that the embryo is a person with full rights of a
15 person, which include the right not to be killed.

16 A conservative thought admits that embryos
17 have the potential to become persons rather than the full
18 status of a person and it is in respect of that potential
19 of the genetic and the environmental interaction that
20 they believe society owes embryos protection.

21 On the other side, liberals do not believe
22 that the embryo is mere tissue or nothing. People with

1 liberal views have respect for the embryo and that has
2 been the main theme of the commissions and the panels
3 that have dealt with this issue before. So that liberals
4 and conservatives might interpret the claims of an
5 intrinsic respect for life differently but you do have
6 some moral ground there to unite both groups, which could
7 yield important protections and processes for embryo
8 research.

9 But this principle in my thinking is not
10 enough and here is where Professor Charo's work comes
11 into the main argument.

12 The other principle that we have to pay
13 attention to is justice because when you are talking
14 about federal funds you are talking about distribution of
15 benefits as well as risks and there are winners and
16 losers in terms of how these federal funds are
17 distributed.

18 In my thinking about the justice issues and
19 who wins and who loses, what it comes down to is if you
20 have no federal funding -- you maintain the ban
21 completely and have no federal funding for case two then
22 it not only slows down the process of getting to clinical

1 trials with stem cell research but what it means is that
2 you have to accept the increase of suffering or the delay
3 and relieving suffering of very many people as well as
4 tolerate early deaths. So there is a price to pay there
5 for not recommending or not acting on the obligation to
6 fund this research from the federal side.

7 If you permit federal funding there is
8 suffering of the persons with views who believe that
9 human life -- not only is human life being killed but
10 embryos having status of human beings are being killed
11 and there is a great deal of moral suffering involved in
12 that. It is not just a perception. It is real.

13 As one of the speakers said this morning, I
14 think quote eloquently, that he would be placed in the
15 moral bind of watching a relative suffer from not being
16 benefitted by this research as over against watching his
17 fellow creatures and fellow human beings being
18 extinguished and, of course, in order to do good that is
19 a terrible bind.

20 But where you come out on the justice issues
21 I think is very important and it seems to me that in the
22 political process there is a strong argument here for

1 recommending federal support of case two in principle --
2 in principle -- and then letting the political process
3 take care of timing. I do not think the NBAC ought to
4 get involved in recommending at the level of when and how
5 the political process ought to work in amending the ban.

6 I think there is some virtue in waiting to
7 watch the NIH process in terms of funding uses of embryo
8 -- of derived embryos with private funds, how that works
9 out, whether they can really manage this well, whether it
10 produces some clinically relevant results and especially
11 having those who need embryos for research justify the
12 need. In other words, just do not take it for granted
13 that there is a need. There has got to be a demonstrated
14 justification for the need for embryo research.

15 So if you put these two ethical principles
16 together, which I would describe in terms of shorthand of
17 Dworkin and Charo, then I think you have a much stronger
18 moral basis for recommending federal funding. This is
19 the direction of my thinking.

20 PROFESSOR CAPRON: The ethical principles
21 would now read non-maleficence, beneficence, autonomy,
22 justice, Charo.

1 (Laughter.)

2 DR. SHAPIRO: On some of the comments you
3 made regarding the fact that we should not -- that you
4 would not recommend just because people say they need
5 something that they really need it. This is too
6 controversial an area and they would have to demonstrate
7 or convince.

8 That is an issue, of course, that has been
9 also carefully addressed, Eric, in the British
10 regulations which you asked about before and they have a
11 series of conditions, which to me seems quite reasonable.
12 I do not remember them all and I am not going to attempt
13 to repeat them.

14 But really do sort of run along the line of
15 exhaustion of nonhuman models, the actual need for human
16 models, the human need, that really addresses a real
17 human need. There is informed consent, et cetera, et
18 cetera. I do not have the whole list in my head but it
19 was -- I remember reading about it and it was really
20 quite, I thought, a very thoughtful way of going about it
21 and something we might incorporate in whatever we
22 recommend.

1 Thank you. Other comments or questions about
2 this? I am just trying to cover a number of issues here
3 so that as we begin to draft material we are responsive
4 to just where the commission is on some of these issues.

5 One of the issues which has come up a number
6 of times -- let me start this another way. There is
7 quite a bit of material in your books. Of course, there
8 is Jim's paper, which is very helpful. Andy has done a
9 number of very interesting things, I thought, with the
10 materials in the book. I hope you all had a chance to
11 read it. I think the Parens paper is in the book as
12 well. I am probably missing some. I cannot remember
13 all the ones that were in there.

14 But does anyone have any comments about
15 those? About whether their approaches taken there struck
16 you as useful, the advice useful or not very useful, and
17 impressive or unimpressive? Were you moved by any of it?
18 Were you offended by any of it? I will not ask you if
19 you read it closely enough to decide on the Phyllis (sic)
20 issues.

21 Eric?

22 DR. CASSELL: I just want to go back at the

1 step and ask if in Lori Andrews' paper about state law,
2 what is the status of that law if the federal government
3 approves the use of embryos for stem cell research? What
4 happens to condemnatory state laws?

5 DR. SHAPIRO: My understanding -- well, I
6 will let some lawyers speak to it -- is if you live a
7 state you have to obey the laws there. That is my
8 understanding. But, Alex?

9 DR. MIIKE: What we are talking about is
10 federal funding. It is not a law that says that you
11 must.

12 DR. SHAPIRO: Right.

13 DR. MIIKE: So just the funding issue and
14 then the sort of state law would still apply.

15 PROFESSOR CAPRON: It is not like a federal
16 civil rights statute that overrides a local property law.

17 DR. MIIKE: As a matter of fact, you make the
18 point that that is where -- if there needs to be
19 diversity of opinions and that gets played out at the
20 state, you feel comfortable that some states may say,
21 "No," and some states may say, "Yes."

22 DR. FLETCHER: Yes. I made the point in the

1 section about the law and morality on the embryo research
2 that in the long run I prefer a state by state expression
3 of values on the whole question of the status of the
4 embryo in research and on the justice issues, too, rather
5 than a federal ban and that this is the way democracy
6 works best. And I think the states will have more energy
7 about looking at this issue and will want to look at this
8 issue, particularly those states in which a great deal of
9 this research potentially could be done.

10 So we live in a democracy and I think we
11 should expect that the electorate and an informed
12 judiciary are necessary in order to ameliorate the
13 differences that we have about moral questions.

14 DR. SHAPIRO: Thank you.

15 Bernie?

16 DR. LO: Harold, you asked sort of an open
17 ended question. I want to respond on a topic that sort
18 of has reached us in two different directions and that is
19 the difference between case two and case four, the so-
20 called spare embryos and the embryos expressly fertilized
21 for the purposes of research.

22 A number of things we have read and some of

1 the testimony this morning suggests that is a meaningless
2 distinction because the number of embryos created in a
3 clinical IVF setting can be easily manipulated by the
4 infertility specialist/researcher and so they will always
5 be able to claim that the intention was to use them for
6 assisted reproductive services but they just happen to be
7 left over.

8 And then there is the interesting data that
9 Kathi gathered by actually calling IVF centers and
10 saying, "Do you have extra embryos? How many? What do
11 you do with them?"

12 It seems to me that there are two different
13 issues here. One is, yes, you can manipulate the number
14 of embryos produced per cycle or per couple or per woman
15 or whatever. I agree that depending on the IVF director
16 that number can be either inflated or deflated. But it
17 did seem at least from the data that Kathi showed us that
18 women and couples make distinctions between various
19 purposes to which they are willing to let embryos be used
20 after their reproductive clinical needs are met one way
21 or the other.

22 So I am just wondering what we all think of

1 this argument that that distinction does not hold up
2 because it can be so easily manipulated by the
3 researcher. That seems to me is attacking the wrong part
4 of the situation. It is not how many are created but
5 sort of what you do with them at the end as well.

6 DR. SHAPIRO: Any comments?

7 Alex?

8 PROFESSOR CAPRON: Yes. I think that there
9 is a difference between saying that the distinction does
10 not hold up because in principle there is no distinction,
11 which is my view, for example, on use versus derivation.
12 And the distinction does not hold up because practically
13 it will be hard to enforce it. I take the latter view on
14 this one that if there is a problem it would be hard to
15 enforce. Not that there is not an in principle
16 difference.

17 And I think that Kathi's example of people
18 deciding -- the centers deciding that certain embryos
19 will not be retained for reproductive purposes because
20 the likelihood that they will create a child is so low
21 that it is clinically not advantageous to the couple to
22 implant them brings that to a focus.

1 Obviously that decision, what level you set
2 your viability criteria at, also will influence the
3 number of embryos that are available. At some point if
4 this is really an in vitro clinic that we are talking
5 about, there are incentives on its part not to discard
6 and give away to researchers a lot of embryos which will
7 be useful for couples.

8 I mean, not only is it a violation of their
9 Hippocratic duty to the couples but it undermines their
10 own -- it raises their costs. And if we at some point
11 are able to construct a mechanism which does not give
12 them any financial incentive and closes off any
13 discussions and so forth, I am not convinced that it is
14 not possible. I do not know that it is possible but I am
15 not convinced that it is not possible to overcome the
16 practical objections.

17 So I think it may be possible to construct
18 something which makes sense between two and four but I
19 recognize that it is a difficult task and it requires a
20 good deal of ingenuity. I think there are some self-
21 correcting mechanisms, however.

22 DR. SHAPIRO: Bernie?

1 DR. LO: If I could just follow up on that.
2 Then if we think this is a distinction worth pursuing,
3 would it be advantageous for us to try and get thoughtful
4 IVF practitioners to come to one of these sessions to
5 address this point of whether you can put in place the
6 kinds of practical procedures Alex was talking about to
7 make that theoretical distinction work out in practice?

8 PROFESSOR CAPRON: And Richard Doerflinger
9 has promised that he will provide or has already given to
10 the staff, I think, the background for his statement that
11 people in the field themselves, in effect, say there is
12 no holding us back. I mean, you cannot -- it will -- we
13 will create them if they are out there. And I would
14 like, therefore, to have first person testimony about
15 that from, as you put it, some people in the field to
16 assess where the risks are and if it is possible to
17 overcome them.

18 DR. SHAPIRO: Rachel and then Larry.

19 DR. LEVINSON: As a point of information on
20 this issue and also going back to whether or not you
21 would consider an oversight process that in some way
22 reaches beyond federal funding to the private sector, the

1 advisory panel that Dr. Varmus has put together is
2 considering as one of the elements of their oversight
3 process requiring certain documentation of procedures by
4 the deriver.

5 In other words, the investigator that is
6 coming in and applying for a grant must provide some
7 documentation that certain policies and procedures were
8 followed by the -- whoever it was who provided the stem
9 cells to them to begin with. For example, it is not now
10 required that certain in vitro fertilization clinics have
11 an IRB. They may require IRB review and approval of
12 their informed consent process. So that is something to
13 think about when you are designing your oversight
14 mechanism that you could reach back before federal
15 funding and include that in the process.

16 DR. SHAPIRO: In part, I think -- I am glad
17 that Rachel reminded us that, in part, that derives, I
18 think, from reading that long points to consider
19 document, which I think was central to their discussions
20 -- but in any case, Larry?

21 DR. MIIKE: I just want to make sure that in
22 the information on the practices in IVF clinics that

1 there is a comparison between the short window in which
2 we are able to get embryonic stem cells from the
3 developing embryo versus what are considered defective
4 embryos that are being now discarded because I think
5 there is a significant source in those defective embryos
6 in terms of going to full-term and that can alleviate
7 some of the issues that are being -- that we are arguing
8 over.

9 DR. SHAPIRO: Thank you.

10 Alex?

11 PROFESSOR CAPRON: Could I introduce an issue
12 that we have not talked about that was brought --

13 DR. SHAPIRO: Yes.

14 PROFESSOR CAPRON: -- up by Mr. Furton this
15 morning? He argued, as one of the claims against federal
16 funding, that it was wrong for the federal government to
17 create therapies which because they were derived from
18 sources to which some people have strong objections would
19 put those people in the moral dilemma of deciding between
20 the bad choice of using this illegitimate fruit of the
21 poison tree as it were and facing whatever illness they
22 have or their child has. I must say I was not convinced

1 by that argument and I do not know whether we have an
2 obligation to address in our report every argument that
3 is put forward in good faith here to us.

4 If it were -- if it were the view of the
5 commission that this is a view that more people than just
6 Mr. Furton would likely hold I think we may need to
7 address that and I do not know exactly how we would do
8 it. I always look to Jim Childress on such matters. But
9 I did not find myself convinced by that.

10 I mean, it seems to me there are any number
11 of medical interventions that some people object to in
12 society and the only reason they exist is that other
13 people regard them as providing a solution to what is
14 otherwise a medical problem and yet some people say,
15 "Well, I cannot accept that." From Jehovah's Witnesses
16 with blood transfusions to in vitro fertilization itself.

17 And I do not know whether, for example, some
18 couples who use the so-called gift procedure to achieve
19 fertilization or some people who would like to use it
20 because it does not involve an in vitro fertilization
21 would object to it if they realized that some of the
22 techniques that allowed gift to work were actually

1 pioneered by people who were doing in vitro fertilization
2 in terms of the potentiation of the eggs and sperm and so
3 forth.

4 But, if so, and they are faced then with not
5 having children, which they regard -- biological
6 children, which they regard as a great loss, which I
7 could understand that they would, I am afraid that life
8 is full of these kinds of moral choices in my view.

9 DR. SHAPIRO: I think it is an interesting
10 question.

11 Jim, and then Bernie.

12 DR. CHILDRESS: This has obviously, as you
13 know, come up in several other areas. In the discussion
14 of human fetal tissue transplantation research the main
15 way that it came up there was to make sure that potential
16 recipients knew about the source so they could make their
17 own decisions if they felt that the transplantation in
18 this case would be something that would be morally
19 tainting.

20 There are two issues here, it seems to me, in
21 trying to get at it. One would be the understanding of
22 the religious perspective on which this is based and the

1 other would be -- I am not saying that we should try to
2 get this information but, in fact, would -- many of who
3 affirm this on the level of belief actually followed in
4 practice if this kind of therapy were available.

5 That is kind of an empirical question we
6 cannot really address but at least it seemed to me to be
7 an interesting and important question the way it was
8 raised and it would at least, I think, push us in the
9 following direction as several other considerations have:
10 Namely, if there is a way to avoid using that source, do
11 so. At least it goes in that direction.

12 Now whether it goes farther than that, it
13 seems to me to be a much harder question to address.

14 DR. SHAPIRO: Bernie?

15 DR. LO: In addition to what Jim said, which
16 I agree with, I think that I would sort of urge that the
17 commission bend over backwards to really understand and
18 address the objections that people who are most concerned
19 about this are raising. So as you put it and I think
20 John Fletcher put it, I mean there is real moral anguish
21 in that testimony this morning and I think that part of
22 the respect we should give them as sort of sincere

1 critics of the projected federal funding is to take their
2 arguments offered in good faith seriously enough to
3 really address them because it comes out of such a deeply
4 held position.

5 DR. SHAPIRO: Larry?

6 DR. MIIKE: Just an observation. I did have
7 a chance to talk to that person and I did raise the issue
8 about transfusion, and he did say it was different. So
9 we could always ask them for why -- we did not have time
10 to discuss why it was different. So we can always ask
11 for a written answer to that.

12 DR. SHAPIRO: Okay. I think that -- you
13 know, that obviously was an important argument. I think
14 there are other stronger arguments. Myself, I was not
15 convinced by this argument but I think it is an important
16 one and something that deserves our respect and
17 attention. I completely agree with that.

18 Okay. Are there other issues that people
19 would like to address now?

20 Larry?

21 DR. MIIKE: Just one question on Dr. Parens'
22 paper and the extension into what I guess would be the

1 gene therapy chimeric area.

2 DR. SHAPIRO: Yes.

3 DR. MIIKE: You know my opinion about that.

4 DR. SHAPIRO: You were anxious to do that,
5 right?

6 (Laughter.)

7 DR. SHAPIRO: Bernie?

8 DR. LO: (Not at microphone.)

9 DR. SHAPIRO: I think it is an interesting --
10 my own view is that it is an interesting -- as a matter
11 of fact, I enjoyed that paper a lot but I think we have
12 only -- we have got enough to do is my view without going
13 into that area and we may have too much to do but we are
14 going to give it a shot.

15 Any other issues to come before us this
16 afternoon? We have been at this a long day now. We have
17 been here since 8:00 o'clock this morning.

18 All right. Thank you very much. I want to
19 express my thanks to Jim. I know whenever we meet in an
20 area where we have a member of the commission, it is
21 actually time and effort and work for them so I
22 appreciate it very much.

1 this a --

2 DR. CHILDRESS: To make 40 reservations with
3 one place is pretty difficult to do but I do have several
4 scattered around so check with me and we can figure out
5 which --

6 DR. SHAPIRO: Maybe, Jim, if you just assign
7 people to --

8 DR. CHILDRESS: That is right.

9 (Simultaneous discussion.)

10 DR. CHILDRESS: But I look forward to sharing
11 with you in that conference.

12 DR. SHAPIRO: Thank you very much and thank
13 all commissioners. I look forward to our next meeting.

14 (Whereupon, the proceedings were concluded at
15 4:55 p.m.)

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