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GENETICS SUBCOMMITTEE

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The meeting was convened, pursuant to notice,
at 7:35 a.m., THOMAS H. MURRAY, Ph.D., Chairman,
presiding.

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GENETICS SUBCOMMITTEE

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JAMES WELLS, Ph.D.

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

2 WELCOME

3 By Thomas Murray, Ph.D.

4 CHAIRMAN MURRAY: I welcome everyone to this
5 morning's meeting of the Genetics Subcommittee. If I
6 keep my welcome to 30 seconds we can actually be on
7 time, because at 7:40 Elisa Eisman is going to talk
8 about what she has learned with respect to tissue
9 samples and sampling.

10 Elisa, please.

11 DR. EISEMAN: Oh, that's it. Okay.

12 CHAIRMAN MURRAY: That's it.

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4 TISSUE SAMPLES AND SAMPLING

5 By Elisa Eiseman, Ph.D.

6 DR. EISEMAN: I passed out a very small
7 handout. It should be on the top of your pile. Pretty
8 much I'm just going to talk about the first page of
9 that hand-out, but the second and third page is kind of
10 more detailed information about what I'm going to show
11 you on this first page.

12 So the version of the report you all got is
13 still a work in progress. A lot more information has
14 been added in the week or so since it's been passed out
15 to you. I'm still trying to plug in numbers, and at
16 some point I'm just going to have to call it quits and
17 go with what we have. But I think the numbers kind of
18 speak for themselves.

19 I just wanted to highlight a few things that I
20 found while I was doing the report. The first, is I
21 thought I would highlight the biggest institutions that
22 have stored tissues samples. So the single institution

1 with the most stored tissues is the Armed Forces
2 Institute of Pathology, and that houses both the
3 National Pathology Repository and the Department of
4 Defense DNA specimen repository for remains
5 identification.

6 Combined, there is about -- well, the
7 Pathology Repository has 2.5 million cases, which
8 actually is about 92 million specimens, and the DNA
9 specimen repository has 2 million specimens. They
10 actually collect three specimens from each enlisted
11 personnel.

12 The largest funder of tissue banks is,
13 obviously, the NIH. Cumulatively, graduate medical
14 education teaching institutions or academic medical
15 centers have the largest and oldest stored tissue
16 samples. So, if you put them all together, they have
17 quite a large number of samples.

18 Now, to the table. The vast majority of
19 tissues, as you all have already guessed, were
20 originally collected for diagnostic or therapeutic
21 reasons. The top three places, again, would be the
22 AFIP Pathology Repository, pathology specimens at

1 pathology labs, and then the newborn screening labs.
2 That is captured here as part of the large tissue
3 banks. Actually, this 2.6 million and the 95 million
4 under here, most of that comes from the Pathology
5 Repository.

6 The pathology specimens represented here only
7 represent at this point those at academic medical
8 centers. I have not been able to yet get a number for
9 other pathology labs, which there's probably at least
10 5,000, if not more, besides academic medical centers.

11 Then the newborn screening labs, which this
12 number of 10 million is a very low estimate. It's
13 based on a report that came out in 1995 from McEwen and
14 Reilley and it's taking all their lowest numbers and
15 their ranges and adding them up together to this 10
16 million. So, it's much over that because there's one
17 place, California, that has over six million samples
18 itself.

19 DR. EMANUEL: Can I ask a question?

20 DR. EISEMAN: Sure.

21 DR. EMANUEL: In your draft report, Table 4
22 and 5, I don't know if you remember them.

1 DR. EISEMAN: Uh-huh.

2 DR. EMANUEL: These are the anatomical,
3 clinical. Those are buried in the 100 million?

4 DR. EISEMAN: Yes, they are.

5 DR. EMANUEL: Okay.

6 DR. EISEMAN: Basically, what I did for that
7 number -- that's a good question, Zeke. When I added
8 up all those together and took the 400 and some
9 graduate medical institutions that had pathology
10 programs I came out with, they were collecting about 5
11 million cases per year.

12 What I also did, was took the number that I
13 got from talking to the pathology chairs and the length
14 of time these samples are stored ranged anywhere from
15 20 years to 100 years. As I took that five million,
16 multiplied it by 20 million, and came out with an
17 estimate of 100 million, which is probably pretty fair.
18 Considering that only represents about 400 medical
19 institutions in the United States --

20 DR. EMANUEL: You're definitely low-balling
21 it.

22 DR. EISEMAN: -- it's very low. It's very

1 low.

2 The other thing that I wanted to comment
3 about, these cases that were collected for diagnostic
4 or therapeutic reasons, is that they're all identified
5 or identifiable samples, by virtue of what they were
6 collected for.

7 If you add up the top three places, you come
8 up with 112.5 million cases and 202 million specimens
9 that were collected specifically for diagnostic and
10 therapeutic reasons in this tally. And as you can see,
11 if you look at the grand total that includes
12 everything, that accounts for the vast majority of
13 samples that are out there.

14 The other samples that I wanted to highlight
15 are the blood banks and organ banks down at the bottom.
16 The blood banks do collect quite a lot of blood samples
17 per year--it's about 12 million--but most of those go
18 straight back out the door for transfusion purposes.
19 At any one time they probably have in storage 20,000 to
20 40,000 units of blood.

21 Organ banks. Again, the vast majority of them
22 go straight back out the door for transplantation

1 purposes, although some are specifically used for
2 research. A lot of the eye banks, if the eyes are not
3 suitable for transplantation, we'll then use them for
4 educational research purposes.

5 The forensic DNA banks that collect and store
6 tissues from criminals. Probably one of the other
7 bigger collections, which is a very low estimate here
8 and I'll tell you why, is the longitudinal studies.
9 That information is very hard to track down and I'm
10 still in the process of trying to get numbers. I've
11 tried to identify quite a few of the longitudinal
12 studies. Only a few of them appear in the report right
13 now, and I kind of just outlined the other ones I'm
14 going to try to get information for.

15 But this number of about 26,000 is quite low
16 because it doesn't include numbers for the Nurses'
17 Health Study, which I just yesterday found out has over
18 80,000 samples alone, the Baltimore Longitudinal Study,
19 the Health Professionals Follow-Up Study, Physicians'
20 Health Study, Family Health Study, and multitudes of
21 others. So a closer estimate, and again, it's probably
22 going to be a low number, is closer to 1 million

1 samples in these longitudinal studies.

2 DR. COX: Elisa, do we have the CDC stuff?

3 DR. EISEMAN: That actually is included in
4 this too, to a large degree.

5 DR. COX: The 263.

6 DR. EISEMAN: Yes.

7 The last --

8 DR. EMANUEL: From a realistic standpoint, I
9 mean, the importance of that is that those ones are,
10 first of all, all already collected for research.

11 DR. EISEMAN: For research, right.

12 DR. EMANUEL: And because of the extensive
13 data collection on those people, they're most likely to
14 be used for additional research --

15 DR. EISEMAN: Correct.

16 DR. EMANUEL: -- of all the samples here.

17 DR. EISEMAN: Correct. Exactly.

18 The last two that I wanted to point out are
19 the sperm and embryo banks, and the umbilical cord
20 blood banks. Again, that number that I'm showing for
21 the sperm and embryo banks is quite low. At least on
22 web sites and printed literature, most sperm banks

1 don't advertise how many samples they have, so it's a
2 bit of a problem tracking those down.

3 But I am in the process of doing that. That
4 number includes information from California Cryo Bank,
5 which is one of the largest. They publish every month
6 a new catalog that has 200 donors in it. So again, I
7 did a little bit of a hand waving.

8 Also, the Virginia IBF Institute, Genetics and
9 IBF Institute, does have an embryo bank that has about
10 23,000 embryos per year that they collect. So that's a
11 per-year number, actually, for only two places, which
12 is quite low, again.

13 Then the last thing is the umbilical cord
14 blood banks. That number is probably pretty close to
15 accurate. It's probably a little bit low. I've
16 identified about half a dozen umbilical cord blood
17 banks since I gave you guys the report, but these have
18 only been around for about five to six years, because
19 it's a very new technology.

20 So, all told, basically, for a very low
21 estimate, which still is a lot of samples, I'm trying
22 to differentiate between cases. A case would be me, I

1 go in, I have a biopsy done. That biopsy is a case,
2 but that biopsy might be five slides and a paraffin
3 block. Those are what I'm calling specimens. So
4 specimens will always be more than cases.

5 I came out with a grand total of over 113
6 million, and I put two greater than signs, because it's
7 going to be much greater than that. Probably that
8 should have been carried through the whole bottom of
9 the table. Number of specimens is about 220 million,
10 so, on average, maybe two specimens per case, at least
11 from what's been reported.

12 Then the thing that I think is quite
13 interesting is that, where it was reported, and that
14 wasn't very often, I'm still getting 16 million
15 cases/specimens, depending on where they're being
16 collected, per year. So not only is this a huge
17 storage of tissues, but it's being added to
18 significantly every year.

19 DR. MIKE: Twelve of the 16 is blood.

20 DR. EMANUEL: Yes. But, Larry, if you look at
21 the pathological specimens and you carry over to five,
22 we know that there are more than five million

1 operations--just operations, forget biopsies--a year.

2 I think there's 15 million or so operations a year.

3 You assume that each one of them should result in a
4 pathological specimen. She hasn't done any of the
5 community hospitals in that pathological.

6 DR. EISEMAN: Right. I'll try to include that
7 in the final report.

8 DR. MIIKE: What's your estimate of those non-
9 academic specimens that relate to research?

10 DR. EMANUEL: In the past, low. In the
11 future, who knows?

12 MS. KRAMER: From community hospitals?

13 DR. MIIKE: Yes.

14 MS. KRAMER: In my husband's community
15 hospital, he happens to chair this IRB. For his
16 monthly meetings, he comes home with two briefing
17 books, two books that make these look like they're
18 thin, and that's just to get through for a monthly
19 meeting. So the number of research protocols going
20 through that community hospital is staggering, and
21 increasing.

22 DR. EMANUEL: I think the thing is, to the

1 extent that a lot of them are beginning to affiliate
2 with academic health centers, they now realize that
3 there's a value to the repository. You're going to see
4 a change in the dynamic.

5 MR. HOLTZMAN: I think the question we should
6 be asking ourselves is, we have established that
7 there's a lot of tissue out there, which we knew, but
8 it's useful to have data on occasion.

9 What do we want to draw from that fact, are
10 the sorts of things that come to mind. We've learned--
11 let me throw out a few things--that a lot of the
12 discussion, I think, in the past about, what is the
13 appropriate way to think about issues like consent,
14 have started, perhaps naively, with the paradigm of a
15 specimen collected under a research protocol, or is, in
16 fact, the overwhelming majority of pathology samples.
17 What difference does that make?

18 The second, is what is the quality of the
19 annotation associated with these different kinds of
20 samples, because it's the annotation that determines
21 what kind of research one can do with that.

22 You pointed out, Larry, a lot of it is just

1 blood, and that's true. And if all you had was, it's
2 blood, that it came from a person, there's not a lot of
3 research you can do. When it's disease-specific you
4 could do things like looking at prevalence of a certain
5 polymorphism in a population. It would be useful for
6 that, but that's about it. So, again, I'm going to
7 come back. What is it we want to learn from this; what
8 are the morals we draw?

9 DR. COX: Can I take a cut at that? I find
10 this extremely useful. This is going to be pretty
11 reductionist, so I apologize.

12 But, first of all, do these categories break
13 down evenly? They're not even close to being broken
14 down evenly. So then if they're not broken down
15 evenly, then in the kind of context or the kind of
16 structure, like Dr. Weir's paper, which we'll get to
17 later today, it raises different issues for different
18 categories of these.

19 So at least what I would say on this is that
20 we don't blow off a category just because it's low
21 amounts, but that we prioritize categories in terms of
22 where the greatest amounts are. That doesn't make an

1 amount equal to the importance of ethical issues, but
2 at least in terms of the pragmatic, practical things.
3 It could be a very useful guide to our discussions.

4 Stephen, what I'm not doing is saying sort of
5 what the substance of that is, but it's more a process.
6 It helps guide the process. Because I am most
7 concerned that we'll get focused into one or another of
8 these types of tissues or types of ethical issues and
9 not cover the whole thing. So, at least if we're going
10 to go, let's cover the things where there's tons of
11 samples. That may be even the easiest one to do.

12 DR. EMANUEL: The other thing I saw in your
13 report -- I mean, one other way of looking at it is not
14 just the number of samples, but in some sense, how
15 likely is it to produce research results? Therefore,
16 one estimate of that is, how many papers come out of
17 it? It was only the NCI's tissue network, whatever
18 it's called, where we had, I think, some estimate of
19 paper generation. They said something like 2,000 over
20 the last 10 years.

21 I mean, one thing is how we might weight each
22 of these for the likelihood that they would be used,

1 and one estimate of that is, where do the publications
2 come from? I think it's obvious that the longitudinal
3 studies are going to be the highest in terms of
4 publication, but, if we had some sense for the others,
5 obviously we're going now from back-of-the-envelope
6 calculations to pure guesses, in some sense, because
7 almost no one but the NCI, probably, makes some sense
8 of how many they publish. Maybe a few academic health
9 centers with a pathology department, in arguing for
10 money every year, tries to say how good they've been to
11 everyone else. But I think that might be another
12 helpful measure for us. Again, crude estimates.

13 DR. COX: I really agree. That's a very good
14 point.

15 DR. EMANUEL: What's the use going to be, or
16 likely to be, or historically has been?

17 MR. HOLTZMAN: But you would need to inflect
18 that against what have been the policies for access.

19 DR. EMANUEL: Right. Of course.

20 CHAIRMAN MURRAY: This is a question along the
21 same line, and I don't mean to put Elisa on the spot to
22 answer this. But it would be helpful if we had a

1 better sense of which of these categories had been
2 likely to be used for research or would, in fact, be
3 usable for research in the past, and, then given Zeke's
4 comments about how health centers are aggregating and
5 having tissues which may not have widely been used in
6 the past, tissue collections might now be used in the
7 future.

8 What particular subcategories here would be
9 more likely to be utilized in the future? I don't know
10 if anyone here has any insight into that, other than
11 the past and the future.

12 DR. COX: Well, Zeke just said, and this is my
13 personal perspective, but I think in the future the
14 longitudinal studies, depending on what the access
15 policies are for the future, will probably have a
16 big impact. But I think that there's no question that
17 the pathology specimens have been the sources for the
18 past.

19 DR. EMANUEL: Here's a completely anecdotal.
20 I mean, in Boston there is now a major food fight over
21 who is going to get primary access to HPHC, Harvard
22 Health Care. Just because it's population based, they

1 have lots of good data on their electronic records. I
2 don't know, I think it's 400,000 people. So now
3 everybody wants to be affiliated with them suddenly,
4 for this kind of research.

5 MR. HOLTZMAN: And if I could answer that less
6 anecdotally, but it's true, because we're one of the
7 people.

8 (Laughter)

9 MR. HOLTZMAN: I think we have to assume that
10 more and more samples will now be used for research
11 because people are recognizing the value of those
12 collections in many ways. In fact, many of the
13 collections which maybe, up until now, have been
14 collected in a manner where they're not terribly
15 useful, everyone is organizing themselves in new ways
16 with new, more systematic annotation, and data
17 collection methods so that they can be useable.

18 So I know that as we, my company, talked to
19 more and more pathology centers and community health
20 plans and whatnot, they are very much looking for
21 guidance as to, what are we allowed to do here, how
22 should we do this in a manner that's ethical? So it's

1 even more pressing than maybe a year ago.

2 MS. KRAMER: So, Steve, perhaps we have to
3 make the assumption that all of these specimens are
4 going to be valuable going forward from here, and take
5 that into consideration when we draft our guidelines.

6 MR. HOLTZMAN: I think you do.

7 CHAIRMAN MURRAY: That's a good summary,
8 Bette.

9 MS. KRAMER: Right. Forget what has been and
10 just go froward from there.

11 CHAIRMAN MURRAY: The notion ought to be that
12 they may be usable.

13 MS. KRAMER: Right.

14 MR. HOLTZMAN: And again, as one casts one's
15 mind broader in terms of the nature of the research,
16 even the most thinly annotated sample can have a use,
17 for example -- prevalence of a polymorphism in a
18 population.

19 DR. COX: Having said that, though, Bette, the
20 chance that they'll be used equally is extremely
21 unlikely and that the sources and concerns with them
22 vary tremendously in terms of different issues with

1 each source. So this isn't news to us, because we
2 already did this grid. But I've heard similar to that.

3 DR. MIIKE: Well, do we have readily available
4 to us, or potentially, representative samples of the
5 kinds of samples that are across these categories?
6 Because clearly, to me, the longitudinal study should
7 have a much more specific -- consent than any others of
8 these.

9 MR. HOLTZMAN: We do know their range, right?
10 I mean, newborn screens. They range from no consent
11 because they're mandated by law, ranging up through the
12 most full-blooded consent, and throw in there also the
13 Army samples where one could ask, what is the nature of
14 the consent in that context. It runs the gamut.

15 DR. EMANUEL: Even the longitudinal studies --
16 I mean, if you look at something like the Nurses'
17 Health Study, the Physicians' Health Study, a lot of
18 the tests they're doing now were not predicted when
19 they took the samples. Right? I mean, part of the
20 value of the samples is that they're 10 or 15 years
21 old. The fact is, at that time they didn't have --

22 DR. MIIKE: That's going to be the case for

1 today, too.

2 DR. EMANUEL: Right. Exactly. So it's not
3 going to be very specific consent. What it's going to
4 say is -- I mean, I presume we could get a consent from
5 the Physicians' Health Study, the Nurses' Health Study.
6 I haven't taken a look at it. But you know that when
7 they collected it, there weren't all these genetic
8 tests, for risk of thromboembolism or cancer, whatever.
9 So they couldn't have specified that.

10 DR. MIIKE: I wasn't looking for specificity,
11 I was just sort of looking for, in the minds of the
12 people who were then collecting it, whether they had an
13 idea of what they were going to be doing down the road.
14 It seems to me that, just given this range and what
15 you've just said, I don't see how we can possibly come
16 up with a uniform policy across all of these uses.

17 DR. EMANUEL: No, I know there isn't. But
18 that's what we're searching for. I don't think we're
19 going to get it.

20 CHAIRMAN MURRAY: Elisa?

21 DR. EISEMAN: I think Steve makes a good
22 point. With some of the older longitudinal studies

1 that have been ongoing for quite a long time, the
2 consent might not have covered as many tests as are
3 possible.

4 But at least for, like, the Women's Health
5 Study that is ongoing now, they're very conscious of a
6 low of issues. So they actually, when I talked to
7 them, read me a large part of the consent and were very
8 cognizant of sensitivities like genetic testing, and
9 did allow people to opt out of having their samples
10 being used for genetic testing.

11 So some of the newer longitudinal studies
12 might have better, or more informed, consents. But the
13 participants might be more informed of the types of
14 tests that might be done on their samples versus people
15 who are enrolled in studies that are much older
16 studies.

17 But if you'd like some of these places--I know
18 the Women's Health initiative I could get the consent
19 from, and some of these other places--I'd be happy to
20 try to attach that as an appendix if that would be
21 helpful.

22 CHAIRMAN MURRAY: I think that would be

1 enormously helpful. Also, it would be helpful to get
2 some samples, probably without identifying the
3 institution from which they came, of some typical
4 consents for clinical specimens.

5 DR. MIIKE: We can ask for some samples.

6 (Laughter)

7 CHAIRMAN MURRAY: It's too early.

8 MS. KRAMER: Am I correct that these
9 longitudinal studies, that most of these are
10 identified, so they can keep going back to them for re-
11 consent.

12 DR. EMANUEL: Yes, but if you've got 50,000
13 people, re-consent is a two million logistical
14 impossibility. Just sending out a letter to them at
15 \$2.00 a crack is \$100,000. I mean, these are
16 enormously -- the moment you get to a big number just
17 doing that, not even bringing the people in and having
18 a meeting with them, is a big, big magilla.

19 DR. COX: -- estimated it would be two million
20 to go back and do it, right?

21 MS. KRAMER: Going back to this chart, a
22 couple of things really concern me. Number one, you

1 said in terms of the newborn screening, because it's
2 mandated --

3 MR. HOLTZMAN: In certain states.

4 MS. KRAMER: In certain states, exactly.

5 Well, I'm concerned that there's a potential
6 there, since it is mandated, that there might not be
7 the same attention paid to consent forms, and what
8 might happen to these specimens down the road,
9 particularly if it's demonstrated that they have some
10 value. I have the same concern about, say, commercial
11 blood banks. It seems to me that commercial blood
12 banks, it's very easy for them to escape any kind of --

13 CHAIRMAN MURRAY: Commercial blood banks?

14 MS. KRAMER: You know, where people go and
15 sell.

16 CHAIRMAN MURRAY: Plasma.

17 MS. KRAMER: Plasma. I'm sorry.

18 Does that have value?

19 MR. HOLTZMAN: What, the plasma?

20 MS. KRAMER: No, the samples. Can't they
21 take --

22 MR. HOLTZMAN: I think it would be useful to

1 find out with respect to the commercial enterprises,
2 which would include the plasmapheresis centers, where I
3 don't think they really do keep samples. That's why
4 they're not showing up here. But the core banks and--
5 Elisa, help me out here--the sperm and embryos, those
6 are largely commercial enterprises, right?

7 DR. EISEMAN: Yes.

8 MR. HOLTZMAN: What are their consent
9 procedures, if any, for resale or reuse of leftover
10 stuff in research? I don't know the answer to that.
11 Have they been the source, largely, of the leftover
12 embryos to be discarded which are used in embryo
13 research?

14 DR. EISEMAN: I'm not sure how you would
15 qualify, like, the Genetics and IBF Institute, if you
16 would consider that commercial. I mean, it's more of
17 a --

18 MS. KRAMER: It's very commercial.

19 DR. EISEMAN: Yes.

20 MR. HOLTZMAN: And maybe commercial may not be
21 salient to the extent that there are for-profits doing
22 the same thing.

1 DR. EISEMAN: Yes, for-profit.

2 MR. HOLTZMAN: The issue is, what is their
3 ability to provide samples to others.

4 DR. EISEMAN: Well, I know Dr. Schulman at the
5 Genetics and IBF Institute is very active in research
6 and has connections with a lot of universities, like
7 the Medical College of Virginia Genetics Department,
8 and a lot of samples -- I don't know about embryos, but
9 he's involved in a lot of research. So I'd be happy to
10 try to find out that information.

11 MR. HOLTZMAN: With respect to the Guthrie
12 cards, the newborn screening, what we know is that, in
13 many, many states, there is effectively no consent. I
14 mean, what we know, in general, is that we range from
15 everything of no consent in the Guthrie cards in many
16 states, to a very thin consent for use in research of
17 the pathology samples, ranging up through a very thick
18 consent in certain research studies, which articulate
19 any and all of the future research uses.

20 MS. KRAMER: But is it legitimate to be
21 concerned that, in the future, those Guthrie cards
22 could have a value that is not now known, and that,

1 therefore, we need to be paying some attention to that?

2 DR. MIKE: But I think we need to go back and
3 look at our specific -- we just expanded testing for
4 one to seven metabolic diseases. I'd have to look
5 again, but there either are going to be some
6 restrictions on access -- there will definitely be
7 confidentiality issues around that, and there might be
8 some restrictions on access built into the law. I
9 would guess that there's no uniformity among the states
10 about that, but I'll come back and let you know.

11 MR. HOLTZMAN: Elisa references the Reilley-
12 McEwen paper from '94, which did a survey, current as
13 of then, on this. If that is of interest, we should
14 just get that paper.

15 DR. EISEMAN: I have a copy. I would be happy
16 to forward it to you.

17 MR. HOLTZMAN: Yes. And I don't know if Phil
18 and Gene have updated that work recently.

19 DR. EISEMAN: No, they haven't.

20 MR. HOLTZMAN: But I guess I would go back to
21 Larry's stated assumption, and that is that, given the
22 spectrum of kinds of samples and kinds of consent

1 associated with those samples, does that mean that, at
2 least with respect to the retrospective samples, those
3 previous to whatever we do, that one cannot have
4 something that is uniform?

5 See, I don't think that necessarily follows
6 from a spectrum that one could accept that fact and
7 say, now how are we going to deal with it in a uniform
8 manner, which is built into Zeke's chart.

9 CHAIRMAN MURRAY: Let me just try two very
10 rough principles here. One, is you should always be
11 candid when you gather a tissue sample about what your
12 intentions are. The candor becomes a kind of first
13 principle. If you know you're going to use it for
14 research, that's the clear intention, you need to tell
15 people that. If you know you plan to use it for some
16 commercial purpose, you need to tell people that. So
17 number one becomes candor.

18 The second principle would be, to the extent
19 that research or some non-clinical use is contemplated,
20 you need to have a more robust and full consent to that
21 research. So I think it would be -- that's not a very
22 well articulated principle, but I don't think we need

1 to have multi-page consent forms for every clinical
2 specimen gathered when there is a vanishingly small
3 chance that it will be used for research.

4 DR. MIKE: Just to correlate that, Steve, I
5 was thinking more in terms of prospectively, because
6 retrospectively we're not going to be dealing with
7 informed consent, we'll be dealing with criteria for
8 which people can have access.

9 MR. HOLTZMAN: Right. I'm also speaking
10 prospectively.

11 DR. COX: Tom, can I make one comment about
12 retrospective. I think that this will come out.
13 Again, it was laid out in Dr. Weir's paper very nicely.
14 It seems like there's no issue with respect to consent
15 for retrospective samples, but there is, in fact, a
16 really important philosophical and ethical issue. That
17 is, even if it's anonymous, even if it's not linked,
18 should people have the right to say whether they want
19 their stuff to be used or not?

20 Now, retrospectively, they did not have that
21 right. So we're going to have to come up with the
22 issue. Even if we think that they should have that

1 right now, what do we do about the thing where they
2 didn't have it before?

3 Some people are saying, and we have to make
4 this crystal clear, that the samples shouldn't be used
5 if the people didn't have the right or didn't say that
6 they wanted it to be used. I mean, that's at the heart
7 of the discussion with respect to the retrospective
8 samples.

9 I, for one, do not think it's a hard decision,
10 but we have to realize that that's what many people are
11 asking NBAC to sort of consider.

12 DR. EMANUEL: Let me just review where I
13 thought we came to last time, because last time when I
14 had put up the charts we had, at least in the
15 retrospective samples, two different columns, one for
16 things collected under a clinical rubric and one for
17 things which were collected under a research rubric.

18 Actually, what we decided in the course of the
19 meeting is just to homogenize them, that that wasn't a
20 relevant distinction. In fact, the way we were moving
21 was to reduce the number of distinctions and to try to
22 make a uniform rule over the whole of that past pot.

1 The second thing I would say, is we had, I
2 think, come to a pretty clear idea that there were
3 several decisions we were going to have to make, all of
4 which required, I don't care whether you use the
5 balancing metaphor or whatever metaphor, but clearly
6 positive and negative values on both sides.

7 This was most clear, I think, in the sense of,
8 if you find the result that's specific to a person and
9 you're doing anonymous research, do you have the right
10 to go back? But we've clearly recognized that, in a
11 lot of these cases, we're just going to have to balance
12 things out, and not everyone is going to be happy with
13 that balancing and the judgment will come out
14 differently.

15 But I think the same is definitely going to be
16 the case, in looking at the retrospective samples.
17 Things were not done optimally, whatever optimally will
18 be, and we'll define that for the samples to be
19 collected in the future. So some moral compromise is
20 going to be present, and I think we just have to be up
21 front about that.

22 DR. MIIKE: A brief comment on what you just

1 said. In already collected studies in which people,
2 say, have not given consent, are you talking about
3 expressly, or by silence, or by not thinking about it?

4 DR. COX: All of the above.

5 DR. MIIKE: Because if it were expressly, the
6 simple answer would be, they should not have kept that
7 tissue.

8 DR. COX: Or they shouldn't use it.

9 DR. MIIKE: Well, why keep it if you can't use
10 it?

11 DR. COX: No.

12 DR. EMANUEL: Well, in pathological specimens
13 there's very good reason to keep it. Malpractice, you
14 know.

15 DR. MIIKE: Yes.

16 DR. EISEMAN: There's actually laws and
17 regulations to be accredited and state laws for certain
18 times of retention for tissues for pathologic
19 specimens.

20 CHAIRMAN MURRAY: As we write the chapter of
21 the report that deals just descriptively with tissues,
22 we probably ought to have subsections. Why is this

1 tissue taken, why is it kept? Some of the answers are
2 going to be malpractice, or other things. Then we'll
3 also want to talk about, why is it useful in research
4 and what kinds of research projects can be done with
5 it?

6 We'd also want to ask, descriptively, I guess,
7 and Elisa is going to help us with this, under what
8 terms of consent, or not, was this tissue gathered, and
9 a variety of descriptive subsections in that chapter.

10 DR. MIIKE: Just a comment. There's a myriad
11 of state efforts to protect medical information
12 confidentiality and in many of these the definition of
13 what is medical information will include these tissues.
14 I am in a battle with parts of my own department, the
15 public health side.

16 We are the only state that has something
17 called an Office of Information Practice within the
18 Attorney General's Office. We're trying to develop
19 laws for an immunization registry. Other parts of my
20 department are saying, you must get consent each and
21 every time one accesses that registry to send
22 information out to clients to let them know that their

1 immunization is up.

2 If those kinds of laws get passed on a
3 confidentiality side, and I think the only exceptions
4 might include therapy, which this is definitely not, we
5 are going to be up a creek in terms of, there's going
6 to be such conflict between individual state laws on
7 confidentiality and informed consent versus whatever
8 you try to do in the research area.

9 DR. EMANUEL: Well, there was that article, I
10 think, passed out by Melton, that came out in the *New*
11 *England Journal* talking about Minnesota's law and the
12 Mayo Clinic's records, which highlights at least a
13 particulate -- as an example.

14 MR. HOLTZMAN: I'd like to plant a seed,
15 following up on Zeke's comment, that as we come forward
16 with this, particular with respect to the
17 retrospective, there's a balancing that we're going to
18 have to deal with.

19 I was really struck by Courtney Campbell's
20 paper about different ways of articulating the balance.
21 There can be a tendency to articulate the balance

1 simply in terms of consent versus non-consent in a
2 certain kind of conceptual framework built into there,
3 whereas there is a tremendous sensitivity in her paper,
4 extract from the religious issues, for rather in terms
5 of meanings. It was talking about symbols; I'd rather
6 talk about meanings. That maybe provides, at least in
7 my mind, a much richer framework of understanding what
8 you're balancing.

9 CHAIRMAN MURRAY: And to that point, in a few
10 minutes we're going to have Jim Wells' and others'
11 reports on the mini-hearings. I think we've got some
12 fairly rich and interesting comments from the different
13 groups with whom we spoke about the meaning of
14 scientific research, the meaning of these tissue
15 samples, the concerns they had, but also -- they have.
16 It's very much in line with the things that Courtney
17 Campbell wrote about.

18 MR. HOLTZMAN: Right.

19 CHAIRMAN MURRAY: Elisa?

20 DR. EISEMAN: I wonder if I could just bring
21 up one more point. That goes back to, I think, where
22 you guys were heading the last meeting when it came

1 time to trying to identify research done in an
2 anonymous fashion. The reason I bring that up is
3 because, as I mentioned at the very beginning today,
4 the vast majority of tissues are identified or
5 identifiable, so that does lead into how you're going
6 to define how research is done and if there's going to
7 be that barrier which you were talking about.

8 CHAIRMAN MURRAY: Elisa, were there any
9 substantial categories where tissues were, in fact,
10 already anonymous?

11 DR. EISEMAN: Not that I came across.

12 CHAIRMAN MURRAY: Okay.

13 DR. EISEMAN: There's a category that I didn't
14 put in here, but is in the report, and that's research
15 that generates small collections of tissues, and some
16 of that tissue may be collected in an anonymous
17 fashion, but it's going to be very small numbers
18 compared to what we're talking about here.

19 CHAIRMAN MURRAY: Thank you.

20 Any other questions for Elisa?

21 (No response)

22 CHAIRMAN MURRAY: Once again, a superb job.

1 We look forward to your filling in the blanks as best
2 you can, but this is already very impressive and allows
3 us to offer suggested policies, not just on our
4 imaginations of what kinds of tissues are out there in
5 which hands, but on some piece of evidence.

6 Will you be able to stay, or are you running
7 off?

8 DR. EISEMAN: No, I'll stay.

9 CHAIRMAN MURRAY: Great. Please don't
10 hesitate to speak up if you think what you've learned
11 will be helpful to our deliberations.

12 DR. EISEMAN: Okay.

13 CHAIRMAN MURRAY: We're ahead of schedule five
14 minutes or so. Now, in this part of the meeting, Dr.
15 James Wells will be presenting. I think I see at least
16 one of your colleagues here.

17 DR. WELLS: Yes. Dana Karr is also here.

18 CHAIRMAN MURRAY: Hi, Dana. Please feel free
19 to join in. If you wish to sit at the table, Dana, go
20 ahead.

21 And Sean Simon and Henrietta Hyatt Knorr will
22 also participate to represent these mini-hearings, so

1 we're delighted to have your comments as well.

2 Jim, the floor is yours.

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11 REPORT ON MINI-HEARINGS: CLEVELAND, BOSTON, MIAMI

12 By James Wells, Ph.D.

13 DR. WELLS: Well, it's no problem starting

14 early, because on Sunday morning there's little

15 traffic, so it's easy to be here in plenty of time.

16 I was actually meeting in this very room

17 earlier in the week and people were sort of filtering

18 in during the meeting, talking about the bad traffic.

19 Someone said one of the advantages of living only 20

20 minutes from NIH is that it only takes an hour to get

21 there.

22 (Laughter)

1 DR. WELLS: So I am here to update you on the
2 progress with the mini-hearings. Since I was last here
3 we convened three forums, three mini-hearings; one in
4 Cleveland, one in Boston, and one in Miami. The
5 Cleveland meeting was a group that was African
6 Americans, the Boston meeting was primarily elderly,
7 people over 65, and the Miami meeting was, I guess, a
8 more general, mixed group, that happened to be entirely
9 of women.

10 That was not exactly by design, although we
11 have often relied on the commissioners to help us to
12 make contacts in the locales, and this happened to be a
13 person who was affiliated with the Democratic Women's
14 Club. So many of the group were members of that club,
15 although not all of them, by any means.

16 MS. HYATT KNORR: And my understanding is that
17 almost three-quarters of them were Jewish, and I think
18 that's of interest because of some of the issues that
19 were raised earlier.

20 DR. WELLS: Yes. Good point.

21 We shared with you our reports on these three
22 mini-hearings and presented another table, as we did

1 last time, kind of summarizing things. I will be glad
2 to entertain any questions about that. I've tried to
3 do a couple of things in my remarks today. I think Dr.
4 Murray asked us to think about conclusions and
5 recommendations about the potential of this technique
6 as an evaluation tool, and I guess potentially future
7 uses. Or maybe I'm just reading that into it.

8 CHAIRMAN MURRAY: No, that's fine.

9 DR. WELLS: All right. So I'm prepared to do
10 that. So I can briefly do that, then spend whatever
11 time remains answering your questions and discussing
12 what we brought up.

13 I will preface my comments in saying that I
14 know that all along we have tried to look at these
15 mini-hearings as an opportunity to look at the
16 diversity of opinion that we find in these groups, and
17 I think that will be reflected in the final report.
18 It's sort of difficult to draw conclusions which are,
19 perforce, generalizations and, at the same time,
20 include all the diversity.

21 So I guess, as I'm kind of going along, in
22 making these generalizations, please understand that,

1 where there are important divergences or where there's
2 important diversity of opinion, we will reflect that in
3 the final report.

4 We tried to draw conclusions in five areas,
5 which I think cover the kinds of questions that have
6 been asked in the mini-hearings.

- 7 1. Consent and ownership of tissue
- 8 2. Consent to use, privacy and
- 9 confidentiality
- 10 3. Potential stigmatization of ethnic groups
- 11 on the basis of genetic research
- 12 4. Third party concerns

13 Something I call third party concerns, which
14 has to do with either notification of family members or
15 consent by a family member.

16 There is a third area. What is the third
17 area?

18 MS. KARR: For people who can't make decisions
19 for themselves.

20 DR. WELLS: Oh, yes. That's right. For
21 people with limited capacity to give consent.
22 Actually, I have six areas.

1 5. Sponsorship of the research

2 6. Safeguards

3 DR. WELLS: So let me begin with consent and
4 ownership. Our first conclusion, and I think we shared
5 this one with you on the basis of the first four, is
6 that the general public does not fully understand the
7 consent process. They often feel pressured to consent
8 to procedures because of little time or fear of being
9 denied care and, as a consequence of that, I think, in
10 general feel unable to fully think through the issues
11 involved in providing consent for any procedure.

12 On top of that, the disposition of tissue --
13 and this is how we've made our conclusion, on the basis
14 of these groups, anyway, the disposition of tissue is
15 never discussed with patients. So they are totally
16 clueless as to what will happen to their tissue, or
17 that anything could happen, or that anything other than
18 immediate disposal is even a possibility.

19 I think, actually, if I can find it quickly, I
20 will share with you. One of the quotes from Miami is,
21 "I would be very surprised to find out that tissue that
22 was taken from me after it was tested wasn't just

1 dumped."

2 It was the very first thing. We open the
3 discussions typically by having a discussion about,
4 what is tissue, what can you understand from tissue,
5 and beginning to talk about what kinds of tissue could
6 be taken and stored. This is the first response out of
7 the mouth of this particular participant. So obviously
8 this is not something that people are aware of.

9 DR. MIKE: At the end of the session, was
10 that one of the ones who didn't trust the government
11 anymore?

12 DR. WELLS: Well, I wouldn't say that we had
13 changed their mind. Trust was not high.

14 But what we did find, was that the public
15 wants to retain the right to specifically consent to
16 future use of their tissue, but usually they're willing
17 to relinquish ownership at the time of consent. So
18 they want to be asked, even if the future use may be
19 indefinite. If there's a possibility it would be used,
20 I think that we found most people would want to do
21 that.

22 DR. EMANUEL: I didn't recall that conclusion

1 from the first three hearings. I mean, when I was
2 reading it, that struck me as a difference.

3 DR. WELLS: Yes. Well, I think that it's
4 possible that maybe we were hearing that a bit more
5 strongly in the last three. I think there was some
6 element of that. But I was about to say that this was
7 one where there's sort of an interaction between some
8 diversity of opinion and people's ignorance of process.

9 MS. HYATT KNORR: Yes. I was going to say, I
10 think what we heard in the latter meetings was somewhat
11 more contemplation of the issues in the sense that
12 people really thought about -- once the issue was
13 raised, they thought about it in a much more intense
14 way than some of the earlier ones.

15 I think that was more so characteristic of the
16 group and the order in which we have them rather than
17 some dramatic difference between the groups. I think
18 if we had prompted the earlier groups a little more we
19 might have gotten the same answer.

20 MR. HOLTZMAN: Okay. There's also a range, it
21 seems to me, between someone saying, in principle, I
22 need to have given consent because of lah, dah, dah,

1 dah, dah, the way we say bioethicists argue versus
2 someone basically saying, gee, if they're going to use
3 it, it would be nice if they asked beforehand. Kind
4 of, what's --

5 DR. WELLS: I think more of the latter, is my
6 feeling. Yes.

7 MS. HYATT KNORR: I also think if we looked at
8 the transcripts we would notice that, even though the
9 interview guy, per se, was the same, I think you may
10 have inadvertently asked more for that kind of
11 information.

12 DR. EMANUEL: He warmed to the subject.

13 MS. HYATT KNORR: Yes. That's a good way of
14 putting it.

15 DR. WELLS: We could say he got better at
16 running these particular groups. Yes. But I think
17 that's the case, if people want to be able to believe
18 that they've had a say.

19 Also, I think because people don't understand
20 the process well it's difficult for them to distinguish
21 between tissues taken specifically for research and
22 tissues taken for clinical purposes. Not that they

1 can't distinguish that, but once they were thinking
2 about giving their consent, they're thinking about
3 prospective consent, and it was hard to get them to
4 distinguish between concepts such as, that it will be
5 for a specific purpose as opposed to kind of a blanket
6 consent, because they're not used to thinking about
7 these issues.

8 DR. MIIKE: I think that distinction is
9 important. People are going for routine operation and
10 are not thinking about tissue being used for research,
11 so it's coming as a surprise to them. So it's not
12 surprising to me that that they would say, hey, you
13 know, if I had known that then I would want to be more
14 involved in what happens.

15 DR. WELLS: Right. And I think people don't
16 understand the idea of consent entirely, or what their
17 rights are to consent, or that perhaps the future use
18 of tissue would be a separable issue from whether they
19 want to have the surgery, given the potential harms and
20 benefits, that other things in the document could be
21 checked off, scratched off, or consented to or refused,
22 and still the rest of the things could go forward.

1 MS. HYATT KNORR: Yes. I also think that
2 those individuals who have participated in research
3 usually have a serious conditional illness at the time
4 and the surgery was related to that, so their focus was
5 on their getting better rather than on their
6 participating in research.

7 DR. WELLS: And I will say that the Boston
8 group was particular productive. Because they were
9 elderly, they had had many more procedures done, so
10 they were more aware of the process. A couple of them
11 were a bit more militant as to what you could assent or
12 refuse to.

13 MS. HYATT KNORR: But I think it was not only
14 a function of age, I think it also had to do with, in
15 that group they were all volunteers of one sort or
16 another so they were a particular kind of group of what
17 you call elderly. As a matter of fact, I would not
18 have thought of them as elderly, because they were very
19 active.

20 MS. KRAMER: Jim.

21 DR. WELLS: Yes.

22 MS. KRAMER: Then would it be fair to conclude

1 that, for the most part, people have never thought
2 about the issues and are, therefore, initially more
3 permissive than they end up being once you have
4 generated a conversation and they begin to think about
5 it? No?

6 DR. WELLS: I'm not sure that's the case.

7 MS. KRAMER: No.

8 DR. WELLS: Partly it's difficult to
9 distinguish because we start out asking them about
10 anonymous, so I guess they might naturally be more
11 permissive there. As the discussion goes on there's
12 sort of more layers of complication that occur.

13 MR. HOLTZMAN: That's what strikes me in what
14 comes out. We start here with having the range of
15 issues, some of us having read the literature and
16 thinking about the issue, you watch it go through.
17 They don't think about it, don't know. They're exposed
18 to the notion of the research, and then you get the
19 diversity of the -- it's mine, I want control, to it's
20 no more related to me than the used car part -- use it
21 for research, I don't care. So you really get the
22 diversity.

1 DR. WELLS: Now, certainly it raises a
2 concern, but I'm not sure whether, as it progresses,
3 they actually become less inclined to say that they
4 would consent.

5 MS. KRAMER: So it's not going to necessarily
6 affect whether they give consent, it's just that they
7 want to be asked.

8 DR. WELLS: Yes. Yes, I think that's true. I
9 think that's true.

10 CHAIRMAN MURRAY: And, if I heard you
11 correctly, they don't remember being asked.

12 DR. WELLS: They certainly don't remember
13 being asked. I don't think, out of 70- or 80-odd
14 people, we've ever had anyone who said, I was asked
15 about the disposition of my tissue, or it was ever
16 discussed.

17 CHAIRMAN MURRAY: If we went back and looked
18 at the forms they signed, we'd probably find pretty
19 uniformly that they were asked something.

20 MS. HYATT KNORR: Oh, they remember that.

21 CHAIRMAN MURRAY: They remember signing
22 something.

1 MS. HYATT KNORR: They remember that they
2 signed something, but they didn't remember what they
3 signed, period.

4 CHAIRMAN MURRAY: I don't intend that as a
5 criticism of the people, I intend that as a reflection
6 of the process.

7 DR. WELLS: Oh, quite often they said, I
8 didn't read it. And quite often people complained
9 about the fact that it's given under conditions under
10 conditions of high anxiety and stress, any consent, and
11 that makes it more difficult to give it their full
12 attention and really understand.

13 MR. HOLTZMAN: As a measure of the currency of
14 this issue, did anyone happen to see *E.R.* this week?
15 The case was of a young child that came in with organ
16 reversal. He'd been in a car accident. So they wanted
17 to take a blood sample to do a genetic study. The
18 child is in the process, essentially, of dying, and
19 that's all the father is thinking about.

20 Now they approach him on the ability to take
21 the blood sample. He's handed a consent form, which is
22

1 about -- and he sits there, it's about six pages long,
2 single-spaced, and he sort of leafed through,
3 uncomprehending in about two seconds, and then, oh,
4 there's where I sign.

5 DR. SOBEL: But the critical factor in that
6 story is, when the boy dies before the blood sample is
7 actually taken, it becomes clear that the father
8 thought that -- it was never really clearly stated to
9 him that this was a research study, that it was not
10 going to specifically help his son.

11 MR. HOLTZMAN: That's correct.

12 DR. SOBEL: He had the impression, when he was
13 presented with the story, that it was going to help his
14 son. I'll do anything to help my son.

15 MR. HOLTZMAN: Right.

16 DR. SOBEL: When it was no longer going to
17 help his son, he then asked the question -- and did not
18 consent, until later in the story.

19 DR. HANNA: I notice in your Miami group that
20 one person alluded to the issue of computerization,
21 computerized data bases. Has that not been raised by
22 very many people?

1 DR. WELLS: Oh, that's been raised by
2 everyone.

3 MS. HYATT KNORR: It has been raised. Anyone
4 who has any level of sophistication in the area
5 certainly is aware of that. In Hawaii --

6 DR. MIIKE: Remember the Hawaii guy. The guy
7 was so into computers, I think he was out of touch with
8 reality.

9 (Laughter)

10 DR. MIIKE: It's one thing to say that there
11 are myriads of data bases around in little research
12 institutes, it's another thing to say that one person
13 or one organization can tap into all of those. The
14 connections are missing. But he was convinced that, if
15 it's there, you can do it.

16 MS. HYATT KNORR: I think he was very
17 concerned about this.

18 DR. MIIKE: His whole focus was on computers.

19 DR. WELLS: But I think that's another area.
20 Maybe I'm contradicting Henrietta a little bit here.
21 While people are aware that data bases are
22 computerized, they don't seem to have a great

1 understanding about how things may or may not be
2 linked.

3 I mean, we had a number of people like the one
4 that Dr. McEwen is referring to, who thought that it
5 would be nothing for you or I to walk up to a terminal
6 and put together all the information about them, which,
7 even if you wanted to do, I think most of us are aware,
8 would be extremely difficult.

9 MR. SIMON: They're very into cross-analysis
10 of data base, that anyone would be able to, with the
11 right computer wizardry, be able to cross the proper
12 data banks in order to get whatever information they
13 needed about anyone in the United States, basically.
14 There's about one of those, almost, per group.

15 CHAIRMAN MURRAY: I got a letter from an old
16 friend this week who's in a totally different world,
17 he's a lawyer in Columbus, and he's been on the
18 campaign to -- it's a little off the track, but not
19 entirely. He's been on the campaign -- apparently when
20 companies -- there are these transfer companies. If
21 you own stock -- this is hypothetical; I don't own any
22 stock. But if you own stock and you get paid

1 dividends, they send your check out. But, you know, a
2 considerable percentage gets returned.

3 These companies, they'll send it out a couple
4 of times and then they'll just hold them and earn the
5 interest on them. This guy is infuriated at this
6 practice. So he found out that in other -- he's
7 gotten, actually, a law to not tolerate this anymore.
8 But it typically takes about 90 seconds to track a name
9 down on one of the various data bases.

10 DR. WELLS: Credit data bases.

11 CHAIRMAN MURRAY: Your address can be on a
12 publicly available data base. Your current mailing
13 address, et cetera, can be obtained, on an average, in
14 about 90 seconds with a computer search.

15 DR. WELLS: Yes. I could do it on AOL. But
16 these people are not only worried about having their
17 address found, it's that once you have their address
18 you can find out everything else.

19 CHAIRMAN MURRAY: You still have to link
20 everything else.

21 DR. COX: This is, at least for me, very, very
22 important. You made, if I paraphrase you correctly,

1 and what I heard in San Francisco, the public wants
2 consent, to be given the choice to give consent, but,
3 and even though they didn't know what was happening
4 with their samples, when they heard about it they said,
5 give me the choice to give consent.

6 But then it's the issue of relinquishing
7 ownership, or at least still wanting to contribute to
8 the public good with respect to research. So they may
9 not have known what was going on with their tissues.
10 They were surprised by that. But it wasn't, as soon as
11 they found out they weren't going to let anybody do
12 research anymore.

13 I'd like to bring that up because I think that
14 that's one of the main motivations for some of the
15 views of certain stakeholders, of not informing the
16 public, because if they actually knew what was going on
17 then they wouldn't let research go on anymore. And I
18 think that, for me, one of the really important things
19 that came out of all these hearings, is that none of
20 the testimony or the statements that we've heard is
21 consistent with that.

22 I mean, some of the people may have been more

1 cautious than others, but it certainly wasn't, if you
2 were going to draw general conclusions, that the
3 overwhelming view was that when people heard about this
4 they said, well, I'm sure going to shut down research.
5 I mean, I think that's really -- I must say, it was a
6 prejudice of mine going in. Maybe that's why I liked
7 the conclusion, because it confirms what I found in the
8 beginning.

9 MR. HOLTZMAN: There's two ways you can go
10 with that. Let's assume my sole stake is making sure
11 research goes on. I now gain confidence, as you just
12 said. I can make one of two conclusions. Therefore, I
13 should have robust consents associated with everything
14 and that will be wonderful and I'll get good consents,
15 or the alternative is, given that the overwhelming
16 majority of people would consent given the choice,
17 that, therefore, pragmatically I can use a much thinner
18 kind of consent, or what did you call it?

19 DR. EMANUEL: Presumed consent.

20 MR. HOLTZMAN: Presumed consent. So I think
21 that's one of the things that we need to think about.

22 DR. COX: Yes. But I think there is a

1 significant fraction of people that are against sort of
2 changing any of the rules for consent because of this
3 fear that people won't play. I just don't see it up
4 there.

5 MR. SIMON: People basically wanted to vote.
6 Some people would have studied more on the issues
7 before they voted, but either way, they essentially
8 wanted to vote. The analogy being the democratic
9 process, they wanted to have a hand in the matter.

10 MR. HOLTZMAN: Okay. Well, 100 percent of the
11 people want to have the right to vote, and then only 40
12 percent exercise it.

13 MR. SIMON: Exactly. I think there's a
14 lesson.

15 MS. HYATT KNORR: But I think there's another
16 point that has to do with that as well. I raised the
17 issue, I think, at most of the meetings. What about
18 samples that have already been taken in the past where
19 consent has not been obtained? And there was uniform
20 agreement, and I don't think anybody disagreed, that
21 whatever it was, it should not be wasted. There was a
22 really strong feeling about the public good and the use

1 of these samples.

2 DR. COX: Even when the people were shocked,
3 that they didn't know about something, it didn't take
4 away this feeling of the public good. To me, that was
5 --

6 MS. HYATT KNORR: Right. And another place
7 where that came out was when the issue was raised about
8 possible profit-making. Overall, I think people do not
9 feel that, even though it was their tissue, that --
10 profit-making, that that would change anything, really,
11 as long as it was good for people.

12 DR. WELLS: Right.

13 CHAIRMAN MURRAY: I had a slightly different
14 read on the Cleveland group. But I'm concerned; we've
15 got about 25 to 30 minutes left in our session.

16 DR. WELLS: Okay.

17 CHAIRMAN MURRAY: And we're preventing you
18 from going through your presentation. We're having a
19 very good conversation.

20 DR. WELLS: Well, we've actually covered some
21 of the additional points, but I'll go over them
22 quickly, just to reiterate, to jump ahead to

1 sponsorship, that's what Henrietta is bringing up.
2 What we concluded, or the way we wrote it, was that the
3 general public sees the benefit of genetic research to
4 society, regardless of who sponsors or who conducts the
5 research.

6 Dr. Murray is right. The most dissent we
7 probably heard about that was in the Cleveland group,
8 where there was some concern. We asked two kinds of
9 questions. The one, was do you make a distinction
10 between an academic researcher and a researcher in a
11 biotech or pharmaceutical company? There we did get
12 some distinction and some preference for the academic
13 researcher, and really nowhere else.

14 The other question was, does it matter who
15 sponsors the research, who pays for it, a for-profit or
16 the Federal Government, and we never found too much
17 concern over that difference. We often heard comments
18 of the sort that said, as long as they're producing
19 something good, as long as the drug will have a benefit
20 or as long as the research will produce something that
21 will help people, then it doesn't really matter.

22 I think, in general, again, with perhaps the

1 exception of Cleveland, people just didn't make any
2 distinction in the ethics of research that you would
3 find in the different places or under different
4 sponsorship. We never heard any concerns about that.

5 There are another set of issues having to do
6 with privacy and confidentiality that we've already
7 kind of overlapped a bit. That is, we felt that, based
8 on these meetings, we could say the general public is
9 comfortable with the confidential use of stored tissue,
10 including linkages with demographic information such as
11 sex, age, and ethnic group.

12 We never found anybody who was very concerned
13 about linking it with other information, certainly as
14 long as their name was not associated with that
15 linkage. Perhaps more concern if there was a
16 possibility of going back to the name, and that's where
17 some of the people who had more concerns about cross
18 linkages of data bases and so forth expressed their
19 concerns, because they obviously didn't -- we've had
20 people say, even if you had rules about linkage, well,
21 we don't trust people to follow them. So there's
22 always some small group of people who didn't trust

1 anybody no matter what, but, in general, people, I
2 think, were not concerned about those linkages.

3 One difficulty I think the public has in
4 thinking about this issue is, in differentiating
5 between a linked study or any research study that may
6 have a general benefit to the public as opposed to
7 something that may have direct benefit for them. So
8 one reason people don't necessarily even want to have
9 an honest research is that, if there's something that's
10 found out about them, they'd like to hear about it.

11 So that sort of overrides the concern, even
12 though -- and once again, as we got more sophisticated
13 in running the groups I would say, well, it may well be
14 that research will be done because there will be no
15 direct benefits to you.

16 I think that was difficult for people to
17 grasp, that notion that the tissue was taken, obviously
18 some sort of direct test was done that, for clinical
19 reasons, might have some direct benefit to them. Then
20 research might be done and, in all likelihood, nothing
21 would be found that would be a direct benefit. I think
22 that very small probability loomed large in people's

1 minds.

2 DR. MIIKE: Just one comment on that. I
3 believe it was, and I don't know how all groups were --
4 to me it was a sophisticated answer in the sense that
5 they didn't really expect to individually benefit.
6 They didn't see any great probability of their being
7 individually benefitted, but if the research found
8 benefit for those types of people with those diseases,
9 that that answer was taken back into the medical
10 community and they would benefit from that.

11 DR. WELLS: Yes.

12 DR. MIIKE: They had that perception.

13 DR. WELLS: Yes. Right.

14 DR. MIIKE: That's pretty complicated.

15 DR. WELLS: It was. There was somebody -- I
16 think we quoted it in the last table that, in fact,
17 somebody spoke of this indirect benefit, that through
18 the medical literature, I believe they even said, that
19 this would be disseminated and they could actually
20 benefit, even in that indirect way.

21 CHAIRMAN MURRAY: I want to see if I
22 understand something else I thought I just heard you

1 say, that you detected a pretty strong sentiment that
2 if there should be a finding in the course of research
3 that could then -- an unanticipated finding, that could
4 then be beneficial back to the individual who was the
5 origin of the sample, that people would want to have
6 that connection.

7 DR. WELLS: Yes, people would want to.

8 We did have some discussions, I think most
9 strongly in San Francisco, that people recognized there
10 may be difficulties in doing that. Procedurally, some
11 people in San Francisco actually expressed the opinion
12 that might be an excessive burden on research to have
13 to do that. But, in general, I think you're right.

14 CHAIRMAN MURRAY: If it entailed a trade-off
15 between an additional incremental protection of
16 individual privacy versus the possibility of, if
17 something should be found that might be useful to
18 afford that, the possibility to walk back, did you get
19 a clear sense of how people would want to make that
20 trade-off?

21 DR. WELLS: Well, my sense is, yes, that they
22 would trade some confidentiality or some protection for

1 that information, for that knowledge.

2 CHAIRMAN MURRAY: Would I be off-base if I
3 sort of tried to describe that as a sense that, if I
4 make this gift of my tissue, I then have a kind of
5 relationship with the researcher or the research, so
6 that --

7 DR. EMANUEL: I don't think it's relationship
8 based, do you? I think it's sort of the idea that
9 you've done your contribution and this is the -- if
10 there's going to be a benefit, then you should know
11 about it, right? That's the sort of -- while you're
12 not expecting that return, if it comes out, that's the
13 appropriate return on the gift, as it were.

14 MR. HOLTZMAN: But is it --

15 DR. EMANUEL: But that's not necessarily a
16 relationship.

17 CHAIRMAN MURRAY: Well, in the process. In
18 the same way that what I donate --

19 DR. EMANUEL: Right. But I think what I hear
20 over and over from your summary of the hearings is that
21 this concern of privacy, it's not as big a concern as
22 one might have expected. That, yes, it's out there,

1 but clearly there's a health benefit and that's
2 definitely going to outweigh the privacy concern. They
3 don't feel that threatened by it.

4 MS. HYATT KNORR: As long as it doesn't have
5 anything to do with the insurer or the employer.

6 DR. WELLS: Right. That's the other one under
7 privacy and confidentiality. That was the clearest
8 thing we heard anywhere, was they do not want insurance
9 companies to have access to findings on research about
10 their stored tissue. That was pretty clear.

11 MR. HOLTZMAN: It seems to me the idea of, I
12 want to know if they can help me, probably is not
13 grounded in this gift or contribution. I mean, in
14 general, I think all of us, if there's something we're
15 suffering from and something could help us, we'd like
16 to know about it. So in this context where there is
17 the potential for directly linking, you want to know
18 about it because it's possible to know about it. It's
19 nothing more than that. Okay.

20 The second thing that strikes me in terms of
21 privacy, confidentiality --

22 DR. EMANUEL: I think of it differently.

1 MR. HOLTZMAN: No. I think there are two
2 cases. Let's remember the two cases. One, is for the
3 illness, in general, which you might suffer, and then
4 there's the case which I think you brought up last
5 time, which is they serendipitously find out something
6 specifically about you that doesn't apply to everyone
7 else in that category. I think we have to distinguish
8 those two cases. Tom and I think we're talking about
9 the first, and you may be talking about the second.

10 DR. EMANUEL: Okay.

11 MR. HOLTZMAN: Because I do think those are
12 two different kinds of cases.

13 DR. EMANUEL: Because I do think
14 MS. KRAMER: What concerned me the last time
15 though was, was there this sense that the researchers
16 have a responsibility to those who have donated the
17 tissue to apprise them, just a general responsibility?

18 MS. HYATT KNORR: I did not read it that way.
19 I read it much more like, if it is possible for me to
20 get this feedback and not give back too much, or any,
21 of the confidentiality, I would certainly like to know
22 because it would then help me or my family. Did we

1 discuss Zeke's idea of the wall?

2 MS. KRAMER: You did.

3 MS. HYATT KNORR: Yes, we did.

4 DR. MIKE: I don't think that's such a big
5 issue, because there's going to be very little or a
6 very small probability that the information will be
7 generated that will benefit the individual.

8 DR. WELLS: Right.

9 DR. MIKE: It's the other stuff, which is
10 that we have information but we don't know what it can
11 do for you. But it may raise concerns about
12 probabilities about disease, and we can't do anything
13 about that. In that example, in that particular area
14 where there's information that causes that kind of
15 dilemma, you get sort of a mixed response. I think
16 many people -- I mean, it just gets back down to, yes,
17 I'd like to know, or no, I don't want to know. So
18 there's no really --

19 DR. COX: But I think you're right on the
20 target here. What is benefit? Most of the time when
21 people said that they wanted to know stuff it was in
22 the context that there were clear options that were

1 open to them with that kind of information. I mean,
2 most people don't think about information as not having
3 options hooked up with it. That's another thing they
4 can't believe, I think.

5 MS. HYATT KNORR: But in Hawaii the issue came
6 up, such as Alzheimer's. The response there was, I'd
7 really like to know so at least my family or I can
8 prepare for it.

9 DR. COX: Oh, sure.

10 DR. EMANUEL: Right.

11 DR. COX: When there's not options, then it's
12 a mixed bag. But it's hard for me to imagine, if there
13 was really direct options, that I could do something to
14 save my life and I knew -- like, if I didn't get out of
15 the street I was going to get hit by a truck because it
16 was just coming down, I want somebody to tell me that
17 the truck is coming. So I can't imagine somebody not
18 wanting to know that.

19 DR. WELLS: The next category was a series of
20 questions about stigmatization of ethnic groups. I
21 think in that, people were not concerned about the
22 stigmatization of ethnic groups, although they

1 recognized the potential for this to happen.
2 Conversely, they did see the potential benefit to
3 ethnic groups of group-specific genetic research and
4 felt that outweighed any potential harms.

5 I mean, generally we did get at least some
6 people in the groups who said, oh, yes, that -- often
7 people spontaneously talked about Tay-Sachs or
8 something like that. They knew of specific diseases
9 that were associated with particular ethnic groups, and
10 often recognized that this kind of research actually
11 was potentially a benefit for those groups.

12 I think we talked about this last time. You
13 could get people to speculate in sort of a general
14 sense about, something prejudicial could result from
15 this, but nothing concrete and no real strong
16 sentiment, no strong concern.

17 CHAIRMAN MURRAY: The group in Cleveland--I
18 only have the one experience, I didn't attend the other
19 meetings--very early on mentioned Tuskegee, which is
20 highly salient. They also mentioned the Cincinnati
21 radiation studies. So they were very attuned to
22 potential misuses of people in research. But they also

1 were very supportive of research on ethnic groups,
2 including African Americans.

3 I wrote down, and I hope I've got the quote
4 correct, "The more we know about ourselves the better
5 we'll be." It was very insightful commentary, I
6 thought, and a number of comments about how, in
7 general, they were very, very much in favor of
8 research, even research on particular ethnic groups.
9 They did talk about accountability, researcher
10 accountability, and how we would review research for
11 it. I don't know if you plan to cover that expressly,
12 Jim.

13 DR. WELLS: Yes.

14 CHAIRMAN MURRAY: But my impression was very
15 consonant with what you said.

16 MR. HOLTZMAN: So Tom, to someone like
17 yourself, and maybe Zeke and some of the other
18 professionals in the field, who are very cognizant and
19 keep up with the literature on this whole subject,
20 which seems to be very, very sensitive to the notions
21 of stigmatization in groups, and whatnot.

22 As you attend these meetings, as you read the

1 transcripts, or whatever, do you find what the common
2 person is saying and their attitudes are very different
3 than the literature?

4 CHAIRMAN MURRAY: In the limited sample I
5 have, yes.

6 DR. WELLS: I think that's true, too.

7 DR. EMANUEL: The most important thing is just
8 the weighing of the different concerns. We--the
9 literature, that's the "we" I'm referring to--weigh
10 issues of consent a lot more and suspicions of dangers
11 a lot more, and I think the public doesn't look at it
12 that way, by this insurance/employment issue, which I
13 think you're going to come to.

14 MS. KRAMER: It's interesting. I'm going back
15 in my mind to when Dorothy Wertz was here, eons ago,
16 right? And I remember her saying specifically that,
17 even though nobody has ever polled or surveyed on these
18 specific issues, that her gut feeling is that the
19 public won't care as long as the insurance companies
20 don't know. It's interesting, because it's really
21 what's being borne out.

22 DR. WELLS: Right. Well, I think that's one

1 clear place where they see potential harm to them. No
2 matter what the legalities are or whether they waive
3 and have given insurance companies the right to take a
4 look, they see the potential for direct harm to
5 themselves. I don't think there was any other area
6 where people so directly and clearly felt the potential
7 to be harmed by breach of confidentiality.

8 MR. HOLTZMAN: I raise that question because,
9 coming from outside of the professional circle and then
10 diving in and reading a little bit of the literature
11 and then listening to this, it really strikes me that
12 the literature, apart from the insurance, is conceiving
13 of the terms of the way it thinks about this and the
14 way in which it's probably different than people think
15 about it. That's what struck me about the Campbell
16 paper, is that the Campbell paper maybe is closer to
17 how people think about this because, at least for me,
18 offers a better understanding of how people are
19 reacting.

20 DR. EMANUEL: Maybe. I'm not sure I would put
21 it that way, but I see what your point is.

22 CHAIRMAN MURRAY: And we have to be cautious.

1 We don't have anything like a population base random
2 sample, which I think for very good reasons we decided
3 didn't make a lot of sense because you'd have to spend
4 so much time explaining what this was all about that,
5 by the time you got to the questions, it was unclear
6 what meaning you could derive from the answers.

7 But, nonetheless, we do have a cross-section
8 of the United States, a variety of different
9 communities, a variety of different ages, sexes,
10 groups, identities, and we've gotten some very
11 interesting answers.

12 DR. WELLS: And I think that may account for
13 the different between our sense of what people's
14 desires for privacy are because in our discussions we
15 really got into how they optimize privacy against
16 potential public good, against potential personal good,
17 against potential -- it makes it difficult to sort
18 those things out, but, in fact, I think gives a little
19 richer view of what people think about these things.

20 We did discuss third party concerns. We had
21 asked people about disclosure to family members. I
22 think that, in general, we could conclude that the

1 general public believes it's the right of the tissue
2 donor to choose whether or not to disclose to anyone,
3 including family members, findings from their research
4 on stored tissue.

5 I think in the first groups we had a lot of
6 discussion about these things, and sort of moved this
7 question to later on because it tended to -- the
8 questions of family, what would go on, and so forth,
9 sort of took over the rest of the discussion, because
10 it just adds another whole set of permutations that
11 were difficult for people to think about.

12 But, nonetheless, I think it was clear.
13 Certainly we would ask this question and people would
14 express a lot of concern if someone else were
15 contacting a family member or something about the
16 potential for genetic disease, but then we got into all
17 the issues of whether you're talking about a specific,
18 direct, and treatable condition or whether you're
19 talking about a propensity and how that interacted with
20 family dynamics, and so forth.

21 CHAIRMAN MURRAY: I was getting a little bit
22 lost there. Could you give us a quick summary of what

1 attitudes you discerned about notifying family members?
2 What I heard was, you basically don't tell the family
3 members.

4 DR. WELLS: You don't tell the family members.

5 CHAIRMAN MURRAY: You tell the person.

6 DR. WELLS: You tell the person and they may
7 or may not choose to do so, or they make the judgment
8 on what to do with that information.

9 CHAIRMAN MURRAY: Did you get into questions
10 where the person, the original donor, was now deceased?

11 DR. WELLS: Yes, we did. We actually had a
12 scenario about someone with a brain condition. I'm not
13 sure if we got enough information to --

14 MS. HYATT KNORR: I don't think people reacted
15 to that very much.

16 DR. WELLS: Right.

17 MS. HYATT KNORR: When you'd tell somebody in
18 that case.

19 DR. EMANUEL: The typical problem of trying to
20 make them look forward and then look at a series of --
21 I mean, the more hypothetical the situation the more
22 difficult it is for people to imagine, and then you're

1 asking them for a series of judgments. That's a
2 classic thing. Survey people tell you, garbage in,
3 garbage out, and don't rely on it. The further it is
4 from their experience, the less useful it's going to
5 be.

6 DR. WELLS: Right. But I think the answers,
7 in general, would be the same. I mean, I'm just trying
8 to think if there's -- I think people had different
9 concerns about that. I mean, in fact, they raised
10 those. Why did they do this test, and why is it coming
11 up now, 30 years later? So the scenario was more
12 problematic than the concern, I guess.

13 We also asked them the question about, if
14 someone has limited competence to consent to use of
15 their tissues and I think people just saw that as a
16 real straightforward, legal guardian, power of attorney
17 issue. It was hard to get them to think about that any
18 further than that. It's just that, well, that's
19 straightforward. They just ask the parent of the
20 child, or a sibling, or whatever, the child of an older
21 adult.

22 Finally, we asked them about safeguards. I

1 think, as I told you last time, the general public does
2 not have an abiding faith in any one group to protect
3 medical information and to protect the confidentiality
4 of medical information.

5 We asked them about the governmental medical
6 profession/legal professional institutional review
7 boards. We got opinions all across the spectrum as to
8 trust, and none of those really rose to the top,
9 although I think people were sympathetic with the
10 notion of IRBs. There were some groups where sort of
11 the IRB won out, and others where physicians won out,
12 and others where -- but it was very mixed.

13 MR. HOLTZMAN: Did most people know what an
14 IRB was?

15 DR. WELLS: No, we had to explain that. We
16 had to explain it. We never called it an IRB, we
17 called it an ethics review board.

18 DR. EMANUEL: I've actually been in contact
19 with ABC to try to convince them to do a story on
20 IRBs.

21 DR. MIIKE: And they said N-O.

22 DR. EMANUEL: Well, no. They need something

1 to peg it on to, as usual, you know, with TV. But they
2 didn't even know. The producers didn't even know. It
3 was quite interesting, despite their coverage of a lot
4 of science.

5 DR. MIIKE: The reaction was, once they knew
6 there were IRBs they thought it was a good thing.

7 DR. WELLS: They thought it was a good thing.
8 They thought it was a good thing. But they knew so
9 little about it. I remember, in one of the groups in
10 Hawaii, they started down this path of conversation as
11 if there was one sort of mega-IRB that would be here in
12 Bethesda, or something. We had to --

13 DR. MIIKE: They thought it was all
14 computerized.

15 (Laughter)

16 DR. WELLS: Right, it was all computerized.
17 But once we talked about that being a local kind of
18 thing -- I think perhaps this is not going too far
19 beyond the data to say, the more local, the better. I
20 mean, the other side of it is, people were often
21 willing to say, well, my personal physician is someone
22 that I trust to deal with medical information. But

1 then you have to bring up on the other side, well, that
2 person may not always be the one involved in research.

3 We did ask people to identify who they thought
4 desirable members of IRBs would be, and I think, in
5 general, they identified the kinds of people who are
6 typically on an IRB. Although there was one answer
7 that came up very often, and that is that IRBs should
8 have ethical people on them. Not ethicists, ethical
9 people.

10 DR. EMANUEL: They grasped that distinction.

11 DR. WELLS: Right. Right.

12 (Laughter)

13 DR. WELLS: I don't believe that's required in
14 the regulations, actually.

15 (Laughter)

16 DR. WELLS: Make sure to include those on the
17 IRB.

18 MR. HOLTZMAN: Did you notice that that led
19 one group to conclude absolutely no lawyers?

20 (Laughter)

21 DR. WELLS: That was our doctor sample.

22 MS. HYATT KNORR: Some people didn't trust

1 their ministers either.

2 DR. WELLS: Yes. Although clergy was a common
3 nomination as a group that ought to be on IRBs. We did
4 have that in one instance.

5 CHAIRMAN MURRAY: In Cleveland they also
6 mentioned "highly ethical people." They wanted people
7 on the IRB who were not affiliated with the
8 organization doing the research.

9 DR. WELLS: Yes. Yes.

10 MS. LEVINSON: All the people or --

11 DR. WELLS: I don't think that was the case.
12 I just think --

13 MS. HYATT KNORR: There shouldn't be a
14 conflict of interest.

15 CHAIRMAN MURRAY: Right. I read a
16 substantial.

17 MS. LEVINSON: So in other words, one is not
18 enough.

19 DR. WELLS: Probably one is not enough. Not
20 only in Cleveland, but elsewhere, people felt that
21 groups being studied ought to be represented. We
22 didn't get into the mechanics of that, but they had a

1 strong feeling that if, in particular, an ethnic group
2 -- and even if it wasn't an ethnic identification,
3 everyone identified themselves as, a group of people
4 like us would want to be represented on that group, if
5 that were the group being studied. So I think that was
6 a fairly general finding.

7 That's my six topics. So I have a couple of
8 minutes.

9 DR. EMANUEL: I have a challenge for you.

10 DR. WELLS: Sure.

11 DR. EMANUEL: As much as you bemoan this, and
12 as much as you have warned us against it, it occurred
13 to me, we have variously talked about the possibility
14 in the future of doing a survey, either for our next
15 topic of confidentiality, et cetera.

16 Now, I know you've got a long list of caveats
17 about educating the group. Are there 5 or 10 questions
18 you could come up with, if we locked you in a room for
19 8 hours, that might be useful in a survey format as
20 opposed to a focus group format for thinking about
21 this?

22 DR. WELLS: Yes. I think the answer to that

1 is yes.

2 DR. EMANUEL: And would you mind burning those
3 eight hours doing it?

4 DR. WELLS: No.

5 DR. EMANUEL: Because I think, first of all,
6 it would be extremely helpful for me, having not
7 participated in any one of these, to hear what you
8 think. At the conclusion of focus groups, you usually
9 don't give that as data but you give that as
10 preliminarily to giving us our survey questions.

11 So I was hoping that you might get 5, 10, or
12 15, whatever the right number is in your view, of
13 questions that we might be able to, if we ever get the
14 money and the inclination, et cetera, included on the
15 survey, and even if we don't, we might be able to buy
16 some survey time on someone else's survey, because I
17 think that would be helpful. I mean, I have some ideas
18 of the three or four that I might ask, but I haven't
19 sat, as I said, through any of the focus groups.

20 DR. WELLS: Well, I think 3, 4, or 5 would be
21 much more difficult than 30 or 40.

22 DR. EMANUEL: Right.

1 DR. WELLS: Because you could probably do a
2 half a dozen or more in each of these areas --

3 DR. EMANUEL: I understand.

4 DR. WELLS: -- just to flesh out or look at
5 the prevalence of some of these things.

6 I think there are some areas where it's pretty
7 clear-cut that there were strong opinions and you
8 probably wouldn't need to repeat that in a survey. I
9 think some of those where there's more diversity, where
10 you could perhaps now feel more comfortable in putting
11 together a set of kind of stipulations about what the
12 circumstances are, and then ask questions about, under
13 these circumstances, would you, and then have concerns
14 about confidentiality, privacy, and so forth.

15 DR. EMANUEL: I think that would be great, if
16 you could do it for us.

17 CHAIRMAN MURRAY: You want him to do the five
18 or six?

19 DR. EMANUEL: Well, I think 30 is impossible
20 because, under no circumstances, if we're going to do a
21 general survey -- you've got 50 to 70 questions, 30
22 would be half of it, and we're going to have at least

1 one or probably two other topics. But I think 10 or 15
2 is doable, and, even if we never do a survey, it's at
3 least within the perception of buying space on someone
4 else's survey, might be possible.

5 DR. GREIDER: But that depends someone on what
6 the motivation is. The large number of areas that were
7 covered here, if you were to take one of those, like
8 you just mentioned confidentiality, or one of the other
9 ones, then you could come up with 10 questions just in
10 one of the areas rather than 10 questions in all 6
11 areas.

12 DR. COX: But Zeke said, and I think you're
13 right on target, one possible motive would be that some
14 of these things we think are consensus, but it's on a
15 very small sample, so go out and find out if it's true
16 or not. We're sitting around the table right now, for
17 better or worse, implying it's true. Maybe it is,
18 maybe it isn't.

19 DR. EMANUEL: Well, one area that I think is
20 important is this issue that you've raised several
21 times about, they don't want their tissues
22 commercialized. You think that's uniform. I think if

1 we really heard that that was an 80-90 percent
2 response, that would be helpful. Second, on the other
3 hand, they don't mind if biotech or pharmaceutical
4 companies make money off of research on.

5 Third, the fact that they do want to promote
6 research, they don't want the samples wasted, if we
7 found that that was uniform across all, this kind of
8 trade-off of benefits to the group versus
9 confidentiality is another kind of area, this issue of
10 the fact that more research, even on specific ethnic
11 groups, turns out to be beneficial. These are the ones
12 that I've highlighted or circled.

13 Also, this idea that they're basically
14 suspicious of every single group in the world to
15 protect them from information is, I think, another -- I
16 mean, that's a real problem, I think, for everyone
17 involved in this and something we all need to think
18 about.

19 When I said I could think of three or four, it
20 was those that I could think of. But I'm sure you
21 have, again, having sat through all of these, other
22 senses that might be very helpful to us.

1 CHAIRMAN MURRAY: We're running a little over,
2 but I think it's worth running a little over. If you
3 want to ask questions, go ahead.

4 MS. KRAMER: I was just curious. When you go
5 back to your mind-set when you started and where you
6 are now, were there any big surprises there for you?

7 DR. WELLS: Big surprises. I think the one
8 that people had a little concern about who sponsored or
9 who did the research, I was surprised. I grew up in an
10 academic world with those biases, and I was kind of
11 surprised that people felt that way. I thought that
12 was more widespread than just the halls of academe, but
13 apparently not the case.

14 DR. EMANUEL: But also this one about more
15 research on ethnic groups basically being viewed as
16 beneficial, not as a harm or stigmatism. I find
17 that --

18 DR. WELLS: Yes, totally. Although there were
19 some actual -- for example, in Cleveland, where the
20 group was African American, when Tuskegee was brought
21 up by one individual, a couple of other people argued,
22 well, it wasn't really relevant so it didn't really

1 apply. Things had changed greatly and that wasn't
2 really a concern for this particular kind of scenario
3 that we were talking about.

4 MS. HYATT KNORR: I think that's probably one
5 of the questions though where, if we ever did do a
6 survey, that I would really like to explore because I
7 felt that we didn't have large enough or varied enough,
8 an unrandom sample here, I think, to come to that
9 conclusion. It did appear that way.

10 DR. WELLS: That would be a harder one in a
11 survey, though. Well, you'd have to be very careful
12 about how you identified -- people who identified
13 themselves.

14 CHAIRMAN MURRAY: The Cleveland group were
15 from the community.

16 DR. EMANUEL: You mentioned the Tay-Sachs
17 case. The other possibility is to mention sickle cell,
18 or something. If you have two or three ethnic groups
19 implicated, it might --

20 DR. WELLS: Sickle cell did come up in the
21 Cleveland meeting, and others.

22 CHAIRMAN MURRAY: Rachel?

1 MS. LEVINSON: I'm thinking about the kinds of
2 questions, if you're limited to 10 or 15 or so, which
3 seems reasonable, and perhaps grouping them around some
4 kind of a concept. It will be highly desirable to have
5 the recommendations from this group be able to be
6 translated easily into policy recommendations and that
7 those need to be supported by some kind of consensus.

8 I can see some directions where you're going
9 that are counter to some general public thought, and if
10 there's evidence from the survey to back up those
11 particular recommendations, it would be very useful.

12 DR. EMANUEL: The policy --

13 DR. WELLS: And certainly that makes sense. I
14 mean, if we are going to do this we ought to have
15 enough iterations to be sure that the results that we
16 get from those questions directly answer and allow you
17 to make a decision.

18 DR. MIIKE: On the question about ethnic
19 groups or other ways of grouping it, it was never my
20 impression that people were against research in that
21 area. There were concerns raised around research that
22 would be done in those areas. That's the assumptions

1 I've always worked under. It's not that research
2 shouldn't be done among ethnic groups, but the
3 conditions surrounding them; isn't that right? Isn't
4 that what we're talking about?

5 CHAIRMAN MURRAY: There are at least two kinds
6 of concerns. One, is the misuse of human subjects,
7 whether they'd be harmed or wronged. The second, would
8 be that the information generated by the research might
9 then be used in a prejudicial or otherwise advantageous
10 way.

11 MR. SIMON: I wanted to make one quick, final
12 point, if I could. One of the difficulties that we
13 came up against that I think may be exacerbated by a
14 survey, or just not answered, is people in this -- the
15 issue of linked samples, using their linked samples in
16 research, is illustrative of this problem.

17 It was, they would say yes, that they want
18 their sample linked so that they could be notified of
19 advantages, and they would also in later discussions
20 say, no, they do not want it linked because of their
21 primary fear, which was breach of confidentiality.

22 But when it came down to, what is the

1 probability and severity of the confidentiality breach
2 versus what is the probability and degree of direct
3 benefit of having the linked sample, they just weren't
4 able to carry out the risk benefit analysis. I didn't
5 think that was surprising.

6 I wouldn't say that that was something
7 surprising, but it was unusual that you could even get
8 a situation phrased like that, if you could get both
9 situations on the table so they could be seen in one
10 light. It was always one scenario, the other scenario,
11 and somehow they could say yes to both without bringing
12 together the fact that there's a probability and
13 severity.

14 CHAIRMAN MURRAY: Right. But had some
15 thoughts about the implications of that for whatever
16 policies and practices we recommend.

17 Stephen had a question.

18 MR. HOLTZMAN: It's a question to Jim and
19 anyone else who attended these, and it goes to the
20 issue of consent. I think one thing in the sea of
21 uncertainty that we know, is that with respect to any
22 sample taken at any particular moment in time, that the

1 specific research one could envisage at that time doing
2 with the sample is less than all of the research that
3 could be done with it in the future.

4 So that goes to the issue of, what does it
5 mean to consent to future uses? Some have argued that
6 it's in the nature of the concept of consent that an
7 open-ended consent is not conceptually possible.
8 Putting that aside for a second, the question I have is
9 whether people, as you indicated, seemed open to the
10 notion, as long as you ask me, it's cool. It could be
11 very open-ended.

12 When one of them went through the way you can
13 imagine research at some point being done of a nature
14 which you would find offensive, do people still have a
15 sense of identification with the piece of themselves,
16 the sample, such that they would want to be able to
17 control that possibility?

18 DR. WELLS: Some, yes. Actually, I think we
19 were asked to bring up the tissue of reproductive
20 tissue. In the latter couple of meetings we did that.

21 CHAIRMAN MURRAY: Other than reproduction
22 tissue.

1 DR. WELLS: It never came up spontaneously.
2 But we did ask about reproductive tissue and there were
3 some people, a couple in the last two groups, that
4 said, oh, yeah. If it was that I wouldn't really want
5 fetal tissue research done. But it was more
6 categorical. I don't think it was related to
7 specifically -- well, I just think they already had
8 those opinions about those issues and this became an
9 opportunity to express those. But, yes.

10 MS. KRAMER: I think that this is probably too
11 big a jump to make, but if you go back to the point
12 that you made that they focused on the potential
13 benefit to the group of the research as against the
14 potential stigmatization, and now jump to Steve's
15 question about potential future research that might be
16 done that they might find offensive.

17 So the question is, I guess what I'm
18 struggling with, is how would they designate that
19 offense; how would they describe that offense? Might
20 they not say, well, but there might be something gained
21 from the research that would be of use to the group,
22 that would be of benefit to the group, so why not let

1 it go forward? I'm trying to get a handle on it.

2 MR. HOLTZMAN: Let's put aside the surveys.

3 We are all people around this table too.

4 MS. KRAMER: Right.

5 MR. HOLTZMAN: If you get yourself in a mind-
6 set of saying -- I'll speak for myself here.

7 MS. KRAMER: Okay.

8 MR. HOLTZMAN: All right. I'm very open to
9 the notion of giving a very open-ended consent to the
10 use of my sample, and what comes to mind are the
11 prospects for research which will be of benefit to
12 mankind--personkind--that I can't even imagine. The
13 only sort of hold-back I find, is that I think of
14 certain kinds of research, and all one would have to
15 think of here is Nazi Germany, and the notion that my
16 sample might be somehow used in such research, I find
17 myself asking questions, to what extent am I implicated
18 in that research if my sample contributes to it, and a
19 sense of complicity in an enterprise which is morally
20 offensive. Maybe no one else thinks this way.

21 CHAIRMAN MURRAY: Well, complicity, maybe not,
22 but being used in a way that was reprehensive.

1 MR. HOLTZMAN: But then that question, to what
2 extent do I want to continue to have some notion of
3 control over that which is not possible with a totally
4 open consent.

5 DR. MIKE: Well, Steve, I have problems with
6 that kind of scenario because then it sort of leaves
7 out all of the other structural safeguards and things
8 that we've done. That sort of assumes that we're going
9 to be working in a different society or that we don't
10 have IRBs and we have other kinds of things that, when
11 a particular kind of study comes up, that those kinds
12 of things don't get addressed.

13 MR. HOLTZMAN: Okay. That's good, if we could
14 maybe think along those lines. I'm trying to give as
15 much weight and respect as I can to those who take a
16 very, very strong position with respect to consent in
17 either the logical impossibility or problematic nature
18 of totally open-ended consents.

19 DR. MIKE: I think you're stuck with it, in
20 my mind. I don't think you can ever -- I think we can
21 never find a satisfactory thing that predicts what kind
22 of uses come out of those, so you can't just leave

1 everything around the issue of, when I give my tissue,
2 what kind of consent am I going to give. Something has
3 to happen down the road that safeguards against those
4 kinds of concerns at the front end.

5 MR. HOLTZMAN: But, again, Larry, I think
6 there are those who have argued that, therefore, you
7 need to continually go back and re-consent. What
8 you've pointed to are other structural mechanisms by
9 which you say, if that's the kind of case that
10 motivates one to say that there is a need for re-
11 consent all the time, that there's an alternative way
12 of dealing with it. I'm not arguing anything, I'm
13 just --

14 DR. MIKE: No, no. I understand.

15 MR. HOLTZMAN: How do we think about this, how
16 do we respond to a certain line of thinking. What
17 Rachel is pointing to is that maybe we're very indirect
18 -- where there at least loud voices with different
19 positions.

20 DR. COX: But, Stephen, these testimonies,
21 there was one in San Francisco. I mean, this depth was
22 never there. In fact, to just put it very crudely,

1 people's view is, listen, you know, I'm not an idiot,
2 so just ask me, I'll think about it, then I'll give you
3 my consent. But to really go into, well, what does it
4 mean to give consent, I don't think that anybody
5 thought about that very deeply. So to think that the
6 people have great insight into that, I think, would be
7 a mistake.

8 DR. WELLS: Certainly, the groups didn't speak
9 to that sort of issue directly, and we did not present
10 them with scenarios of harms that could happen, but it,
11 in fact, invited them to think about those. I don't
12 think it's very far from anyone's consciousness, Nazi
13 experimentation, or something. But, in fact, other
14 than a couple of obvious examples, like the
15 stigmatization questions, those sorts of concerns
16 didn't loom large in their minds.

17 I mean, we didn't get people saying, even
18 though when asked how they trusted people to protect
19 their medical information and so forth, they could have
20 presented a lot of sort of dire scenarios. They did,
21 in fact, say we don't trust anyone, at least
22 generically or categorically. On the other hand, they

1 never expressed the fear of things going that far.

2 MS. HYATT KNORR: Overall, I was rather
3 surprised at the positive outlook on research.

4 DR. WELLS: Yes.

5 MS. HYATT KNORR: I mean, there were a couple
6 of individuals who were aware of things that had gone
7 wrong in the past and mentioned them, but I was really
8 surprised that, even though nobody trusted the
9 government, research was a great thing because it took
10 place at universities.

11 DR. COX: Again, there are two explanations
12 for this. Either that people really are very deep in
13 this and that they are optimistic, or what many who
14 would argue just the opposite of really open-ended
15 consent forms, the really detailed consent forms,
16 they'd say that people are just naive about this and if
17 they knew more about it, then they would want more.

18 So I don't think we have enough information,
19 or we have probed deeply enough, to know which of those
20 is the case. I completely agree that the response was
21 a optimistic one, but whether that was because people
22 were optimistic with full knowledge or optimistic --

1 MS. HYATT KNORR: I would say optimistic and
2 naive.

3 DR. EMANUEL: It's optimistic, and that's what
4 our culture says. We have a big belief in progress and
5 science. When you ask for their gut reaction, that's
6 what their gut reaction is. It's no surprise.

7 DR. WELLS: No one really challenged the
8 notion that the research itself would result in a good.

9 MR. SIMON: But these are also folks that, a
10 half hour before we got to this level of discussion,
11 started off saying that they thought this was all
12 dumped material, so why would they possibly be
13 concerned if it's kept anonymously to work with? So
14 there's that to keep in mind, and that would put
15 forward the assumption that it was naive optimism.

16 CHAIRMAN MURRAY: I have to ask a question
17 right now. Is there any member of the audience here
18 who wishes to give public testimony?

19 (No response)

20 CHAIRMAN MURRAY: We're about 20 minutes
21 behind schedule, but we have 30 minutes built in at the
22 end of the morning. So I think we can go a couple of

1 more minutes on this subject, but then we should take
2 our 15-minute break and then resume.

3 DR. WELLS: In response to what Sean said, and
4 in thinking about a survey, one of the drawbacks of a
5 survey is that if people's opinions are not already
6 well-formed, that the survey is not an ideal tool for
7 getting at unformed opinions. So, to the degree that
8 we are sort of using the questionnaire not only to
9 elicit their responses but to sort of preload the
10 conditions under which we're asking them to form an
11 opinion, it's going to be more problematic.

12 In fact, you're more likely to get standard
13 expressions of values, which I think is what we did
14 with research in these groups. So we should keep that
15 in mind as we're going into a survey, is the fact that
16 people have no idea that tissue is even stored, is a
17 potential drawback.

18 DR. EMANUEL: I absolutely agree with you, and
19 I think it's a big problem and one of the reasons we
20 decided not to go ahead with a big survey. So I think
21 anytime you would interpret these kinds of survey data,
22 you would go with a big grain of salt.

1 On the other hand, now that we've gone through
2 the focus groups, we do find some themes, and it's
3 important, I think, at this point for us to know, how
4 robust are those themes, and how biased. I agree, this
5 is the worst area to do surveys on, because there's no
6 public discussion. They don't even have the foggiest
7 idea of what's happening. Yet we want to get very
8 specific, and we have all of these hypothetical
9 problems. On the other hand, there are at least
10 several key questions which I think would be helpful if
11 you could develop some good questions.

12 DR. MIIKE: My question to Zeke becomes more
13 important because, and Dave said it exactly, and that
14 is, in your work on this commission are you coming in
15 from your research? I need all the information before
16 I make a decision -- coming in from a public policy
17 decision. That's the information that's out there and
18 that's what I've got to rely on to make that decision.

19 DR. EMANUEL: But I'm not trying to --
20 (Laughter)

21 DR. MIIKE: I hear a hesitancy to move forward
22 on the policy --

1 DR. EMANUEL: Oh, not at all. Not at all.

2 I'm always willing to give my attention to policy
3 recommendations.

4 CHAIRMAN MURRAY: Who needs stats?

5 (Laughter)

6 DR. EMANUEL: As I started the three previous
7 meetings of this group, those are irrelevant.

8 CHAIRMAN MURRAY: Jim, you have a couple of
9 minutes where you were going to reflect on the general
10 usefulness of this technique on future commission work.

11 DR. WELLS: Well, I think I kind of alluded to
12 the fact that, because this is an area where there are
13 a lot of unformed opinions, focus group, meeting,
14 hearing, forum sort of approach, group discussion is a
15 good place to do that.

16 I mean, clearly there's progression from the
17 beginning of the discussion to the end, where, in some
18 cases, we were able to elicit some pretty sophisticated
19 and thoughtful ideas about these issues. I think to
20 get at these things if we just walked up to somebody
21 and said, what do you think about informed consent for
22 linked studies on tissue, they would give you a blank

1 stare.

2 This is a potential weakness, I suppose, in
3 the sense that you need to get people to volunteer to
4 do this. Not that you don't for a survey or any other
5 information-gathering technique, but, in fact, I
6 suppose we'd have to admit that maybe the most privacy,
7 the people with the most fundamental privacy issues may
8 not have been concerned to talk about somebody on
9 behalf of a federal commission about these issues. I
10 don't know.

11 I don't know that that's the case, but there's
12 some selection bias in every opinion-gathering
13 technique. So that's potentially a drawback.
14 Nevertheless, I think the people that came in were
15 willing to be open and to openly share their opinions
16 and to, in fact, divulge those opinions to others in
17 the group and to allow that interaction to occur. I
18 think that's fundamentally the strength. The fact is,
19 we didn't know precisely what to ask or how to ask it,
20 and that evolved over the course as well.

21 CHAIRMAN MURRAY: Any final word? That was a
22 good summation.

1 DR. WELLS: I guess not. That was the final
2 word, on the technique.

3 CHAIRMAN MURRAY: Thank you very much, Dr.
4 James Wells.

5 MS. KRAMER: This was invaluable.

6 CHAIRMAN MURRAY: We're going to take a 15-
7 minute break, which would have us back here at 10
8 minutes to 10:00. We will start promptly at 10 minutes
9 to 10:00, and Sheri Alpert will lead off.

10 (Whereupon, at 9:40 a.m., the hearing was
11 recessed.)

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10 AFTER RECESS

11 (9:55 a.m.)

12 CHAIRMAN MURRAY: Let's reconvene.

13 Sheri Alpert is going to make a very brief
14 report on the paper she's done for us and the work
15 she's done for us, and there will be some time for
16 questions and discussion.

17 Sheri?

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13 PRIVACY AND THE GENETIC ANALYSIS

14 OF STORED TISSUE: UPDATE

15 By Ms. Sheri Alpert

16 MS. ALPERT: Okay. I'm making a presumption
17 that everyone's had a chance to read my paper and has
18 had a chance also to look at the conclusions and
19 recommendations, but I'll quickly go over what those
20 are, since those got out a little bit later than the
21 rest of the paper did. These are just highlights.

22 There were basically four areas that I found

1 that were the most useful for looking at conclusions or
2 policy recommendations. One, is the issue of groups,
3 which you've already been discussing quite a bit. The
4 other, I called Other Genetic Research because I wasn't
5 any more creative than that. One is protecting
6 anonymity, and then finally, tangible and intangible
7 harms.

8 The nature of my recommendations are fairly
9 explicit as far as policy recommendations within the
10 context of the regulations to protect human subjects,
11 in some cases, not all.

12 So the first one that I thought was important
13 is that the regulations to protect human subjects
14 should explicitly incorporate a notion of non-medical
15 group risks and harms that is possible by participating
16 in genetic research.

17 Right now, the regulations don't really
18 acknowledge any kind of harm beyond the individual,
19 first of all, and second, don't really incorporate the
20 notion of a non-medical risk or a non-medical harm that
21 might be a possibility.

22 CHAIRMAN MURRAY: There's a question.

1 MS. ALPERT: I'm sorry. Yes?

2 MR. HOLTZMAN: With respect to non-medical
3 harms, it may not be in the regulation, but someone
4 help me here, there was a specific directive probably
5 back in 1994 that one had to take into account of those
6 non-medical harms and it was specifically in the
7 context of genetic studies that that was raised.

8 Correct on that?

9 MS. ALPERT: I'm not -- I don't know for sure.

10 MR. HOLTZMAN: It is. I know that for sure.

11 MS. ALPERT: Okay.

12 MR. HOLTZMAN: I don't have the reference, but
13 you should find that out, or I can find that out.

14 MS. ALPERT: Okay. But I'm also explicitly
15 saying that it should be incorporated into the
16 regulations.

17 MR. HOLTZMAN: And then the second thing I
18 would say with respect to, as we think this through,
19 and you don't want me to keep raising this, whether the
20 word "genetic" is important in that first
21 recommendation.

22 MS. ALPERT: Right. Okay. And I guess I

1 should point out at this point, when I talk about
2 genetic research, as far as groups are concerned, I am
3 thinking in terms of research that's been done to come
4 up with BRCA-I, BRCA-II, Tay-Sachs, the colo-rectal
5 cancer mutation, where you know what group you're
6 dealing with when you start dealing with that group.

7 That was what I had in mind when I was
8 addressing this issue.

9 And also, my definition of groups is -- I
10 mean, there are several ways to cut it. The cut that
11 I'm looking at here is ethnic, racial, cultural kinds
12 of groupings as opposed to necessarily just disease
13 groups or geographic groups. So, okay.

14 Second, tissue samples from which group
15 affiliation is known or can be inferred, however it can
16 be inferred, for the sake of the regulation should not
17 be considered anonymous tissues for research because
18 you know, especially if those tissues are being used to
19 further research on that particular group.

20 So whether or not they're individually
21 identifiable to a person, if you know that that person
22 is a member of a group that you're interested in

1 studying those tissues, I'm saying, are not anonymous
2 and should not be treated within the regulatory
3 process, within the IRB process, as anonymous.

4 MR. HOLTZMAN: This goes to something we've
5 been talking about, that the salient point is whether
6 the tissue in the relevant sample is anonymous or the
7 study of the taking with the tissue.

8 MS. ALPERT: I'm sorry. I couldn't hear you.

9 MR. HOLTZMAN: Is the issue the state of the
10 tissue or the nature of the study undertaken with the
11 tissue?

12 MS. ALPERT: The nature of the study
13 undertaken.

14 MR. HOLTZMAN: Okay.

15 MS. ALPERT: Third, were group research is
16 proposed, and this is consistent with the model
17 protocol, for instance, from the Human Genome Diversity
18 Project, where group researchers, proposed researchers,
19 should involve leaders of the relevant groups and
20 communities throughout the entire process, whether it's
21 research design, recruiting participants or research
22 subjects, and potentially the communication of the

1 research results. That, to me, is fairly important.

2 Moving on to Other Genetic Research. The
3 first ones, I know, are going to be really
4 controversial. The more identifiable the subject is in
5 the context of genetic research, the more important it
6 is to obtain informed consent, even on retrospective or
7 already existing tissues and data.

8 If the tissues and data are being used
9 anonymously, it's not as much of a problem, not looking
10 at the group issues, I'm putting those aside. This is
11 somewhat consistent with what Eleanor Clayton has
12 written, and others, although I think this backs off a
13 little bit from that.

14 But, again, the more identifiable the tissues,
15 the more important it is to try to obtain the informed
16 consent of that individual.

17 The second one, and this kind of gets to some
18 of the questions or the issues that were being raised
19 just before the break, issues of consent. In clinical
20 situations where patients are asked to provide consent
21 for their tissues to be used, that it shouldn't
22 necessarily be a yes/no.

1 There is a range of choices that could be
2 offered, and should be offered, to individuals in the
3 context of whatever research might be done on their
4 tissues. For instance, there are two separate ways I'm
5 cutting this.

6 One, is for prospective collection, anonymous,
7 unspecified use in the future, the range could go
8 everywhere from I do not consent to the use of my
9 tissues for any purpose whatever, to consent to any
10 type of research. But, again, keep in mind, I'm
11 talking anonymous here.

12 The two in between would be consent to
13 research on my disease only, or beyond that, perhaps,
14 if that does not include genetic research, then genetic
15 research is okay as a third option. That's consistent,
16 I think, with the National Action Plan on Breast
17 Cancer, the direction they were going.

18 DR. EMANUEL: Can I just mention something
19 here. Over the -- I guess on Friday or Saturday I
20 actually tried to think and draw up a prospective opt-
21 out sheet, and I can actually distribute it if people
22 are interested. But this turns out to be actually much

1 more difficult than one might think sitting here. Let
2 me suggest why.

3 First of all, the National Action Coalition--
4 and I always butcher the name and I'm not even going to
5 try anymore--were specifically focused in on women with
6 breast cancer, so they had two advantages: women who
7 were having biopsies for breast cancer, and cancer.

8 If we are going to do a general form, you
9 don't have those two grounding points, it is much
10 harder to write an open-ended form that way. So, for
11 example, the second one, consent to research on my
12 disease.

13 Now, imagine you're going in for a biopsy of
14 your breast. Since 60 to 70 percent of those are
15 benign, what is my disease? There isn't a disease
16 there, and it becomes immediately problematic. You're
17 trying to imagine or trying to propel something.

18 The second thing, is my solution to this
19 problem was a two-step solution. That makes a consent
20 form difficult to do without someone there. You have
21 two sets of questions, actually, to ask, not one set.

22 So I think it actually turns out to be a very

1 useful exercise for us to think about actually
2 practically implementing this because the
3 recommendations that I was pushing may not be as easy
4 to do as people may imagine, and spending an hour
5 sitting in your room trying to write out something may
6 give us a flavor for some of the difficulties and
7 problematics with doing it.

8 DR. COX: Not to mention the quizzical looks
9 on the faces of the people who are trying to do it.

10 DR. EMANUEL: Well, just think about it. If
11 you don't do it in person with someone where you can
12 actually ask a question, okay, because we don't want to
13 do it right before surgery and we don't want to do it
14 right after surgery, it's a serious, serious problem.
15 Maybe if people are interested, I can show them some of
16 the things I came up with. But, anyway.

17 MR. HOLTZMAN: I forget her name, the woman
18 from Canada. Implementation was of presumed consent or
19 opt out.

20 DR. EMANUEL: She was talking about the
21 Netherlands, that was beginning to have an opt-out
22 system.

1 MR. HOLTZMAN: Did we see what that looked
2 like?

3 DR. EMANUEL: No. I mean, I'm sure we could
4 get it.

5 MS. ALPERT: Okay. This was just one possible
6 take on --

7 DR. EMANUEL: No, no. We've all been talking
8 about it.

9 MS. ALPERT: Number two, another way to cut
10 this, potentially, is to have the range of consent vary
11 around the identifiability issue so that you would
12 either not consent at all, and I apologize for not
13 putting that one on there, you would consent to donate
14 anonymously, consent to donate only where a tissue bank
15 trustee knows who you are, and then a further consent
16 within that consent is, I agree to let other
17 researchers who will not know who I am go back to the
18 tissue bank, which can then contact me for further
19 information, if that be the case.

20 In that case, if that is what a person
21 consents to, they will not receive information back on
22 what the results of the research may have found.

1 The last one then is consent to donating
2 tissues with full identifiability, with the catch being
3 that whenever the tissues and the information go out to
4 a researcher, before that researcher can use that
5 collection, the data, the tissue, et cetera, they would
6 have to come back to you as the tissue source, as the
7 tissue donor, to get specific consent for a specific
8 protocol. Obviously, this is prospective.

9 Again, the question was raised, I think Steve
10 raised it, whether or not someone can give an informed
11 consent for general purposes when you don't know what
12 the harms are and you don't know what the actual
13 research is going to be. Giving an open-ended consent
14 like that is really not informed, or not necessarily.

15 Moving on then to protecting anonymity. This
16 is also consistent with where discussions have been
17 going. A fire wall should be considered between the
18 researcher and the repository, or the tissue
19 collections. I'm saying for both retrospective and
20 prospective. They're already existing in prospective.

21 One of the main difficulties is going to be
22 defining exactly who falls on which side of the fire

1 wall, because there are a lot of pathologists out there
2 who do research on their own collections, and you have
3 to figure out where they would fall within that, on
4 which side of the fire wall they would fall.

5 Just a hunch, that's probably where most of
6 the research, or a lot of the research, anyway, is
7 being done, in that kind of a context, where the
8 pathologist can sell them -- research, not necessarily
9 in the context of the protocol.

10 DR. EISEMAN: I wouldn't say that most
11 research --

12 MS. ALPERT: Well, a lot of it.

13 CHAIRMAN MURRAY: No. Some of it. Very
14 little of it, from what we hear from the expert on
15 pathology.

16 MS. ALPERT: Okay. All right.

17 DR. EISEMAN: I think more samples come
18 through pathology that are passed on to other
19 researchers --

20 MS. ALPERT: Right.

21 DR. EISEMAN: -- but not necessarily -- the
22 pathologists themselves.

1 MS. ALPERT: Okay. All right. Okay.

2 Well, leaving pathologists aside, it's still
3 important to know who's on what side of the fire wall
4 and how that fire wall will be constructed. I think I
5 laid out in my paper a couple of different ways, that
6 it could be either an institutional arrangement within
7 the institution, it could be a trusted third party to
8 use prevalence of the encryption world, where an
9 outside or totally independent board or body would be
10 the tissue trustee.

11 Then, finally, tangible and intangible harms.
12 This is kind of motherhood and apple pie, I suppose,
13 that the research and policy communities need to be
14 vigilant in trying to minimize harms and risks.

15 Again, I say genetic research in a context of
16 assuming that that is going to elicit more information
17 that is sensitive to the individual than might
18 otherwise be from other kinds of research.

19 I'm saying that part of that vigilance needs
20 to be a sensitivity on the part of the research
21 community and how research results are communicated to
22 the public, because I think to some extent that may be

1 part of the issue of what may scare people about the
2 possibility of participating in genetic research.

3 I suspect that's part of the back lash that
4 has been experienced in the Ashkenazi Jewish community,
5 where some of the community leaders are trying to pull
6 back on the conduct of research on Ashkenazi Jews.

7 Like, pick on somebody else; you've done us for a while
8 now. It's someone else's turn.

9 So if the research results were, or could be
10 -- and I'm not even suggesting how because I don't
11 know, necessarily. But to the extent that the findings
12 could be communicated in a way that doesn't scare the
13 public, that would really be helpful in the conduct of
14 future research and genetic research.

15 DR. EMANUEL: Can you pop the first slide back
16 up? I think it's your second point there that struck
17 me as quite controversial. That has not been the drift
18 of our discussion at all. We have tried to reduce the
19 number of categories from either anonymous or
20 identifiable and not to have a spectrum of kinds of
21 anonymous or kinds of identifiable, then within each of
22 those categories, thinking about subclassifications.

1 The general view has been that, if the tissue
2 sample is handled in an anonymous manner where the
3 anonymous refers to the individual identity, then it's
4 being considered anonymous. I mean, that's been our --

5 MS. ALPERT: But there would be an individual
6 in the group as well, right?

7 MR. HOLTZMAN: It was probably after this
8 point, but if you read the second point, there's not a
9 reference to the state of the tissue, but rather the
10 nature of the research.

11 MS. ALPERT: Of the research, right.

12 MR. HOLTZMAN: And I'm reading point two to be
13 nothing more than a study could be anonymous with
14 respect to the individuals but not anonymous with
15 respect to the group. We have called out that.

16 MS. ALPERT: Right. And I'm talking about the
17 nature of research.

18 DR. EMANUEL: Sorry. But if you go back to
19 the revised slide, right, this is anonymous
20 identifiable.

21 MS. ALPERT: But where I'm talking about is,
22 I'm looking down here.

1 DR. EMANUEL: All right. But this is the use
2 of the tissue, or what we had considered the use of the
3 tissue. Within this classification, because that said
4 whether it was done for a group. Okay.

5 Maybe I just misunderstood. I thought you
6 were saying anything in this category, this should be a
7 blank and it should be shifted over here, is
8 essentially the way I interpreted that.

9 MS. ALPERT: If the research is only this
10 entity and you know it's only on that entity, I think
11 you're probably right.

12 DR. MIKE: Maybe the answer here is how we're
13 discussing this. Put Sheri's slide back up. The
14 confusion here is the use of the words "tissue samples"
15 and all of the discussion we have about anonymous,
16 anonymize, et cetera.

17 What you're basically saying here is that we
18 should treat groups differently. That's all you're
19 saying, I think. So it should not be framed this way.
20 It's sort of like your overall point that there are
21 issues when identifiable groups are involved in the
22 research. So I think the way that it's stated is

1 what's misleading.

2 DR. EMANUEL: I'm not sure I agree, and here's
3 the reason. Remember, that's true for the issue of
4 consent. But let's switch to the issue of IRB
5 approval. Okay. Part of what we had said on IRB
6 approval is that we would distinguish these two. Okay.

7 DR. MIKE: Yes. But you see, it says
8 individual, no community linkage.

9 DR. EMANUEL: Sorry. Let me just get one of
10 the slides where I fill in.

11 MR. HOLTZMAN: Zeke, your problem is, and I
12 thought about this after the last meeting, is that our
13 X and Y axes actually have certain of the same
14 information.

15 DR. EMANUEL: Well --

16 MR. HOLTZMAN: That is correct.

17 DR. EMANUEL: Look at this for a second. On
18 the individual consent, right here, there are
19 differences in both the IRB review and the level of
20 individual consent we're going to use. So it doesn't
21 seem to me fair to say that we're going to make this --
22 it might be fair to say that.

1 It may be what we want to go to. We're going
2 to make this a blank and treat it as if it were
3 identifiable because it has many different
4 implications, at least our last conversation, for the
5 kind of IRB reviews you're going to have, the kind of
6 consent. Remember, if you're treating it as
7 identifiable you've got to go back to the individuals
8 and get their formal consent.

9 MR. HOLTZMAN: Maybe you're reading too much
10 into that.

11 DR. EMANUEL: Maybe.

12 MR. HOLTZMAN: There's a notion of
13 identifiability which we're acknowledging in your
14 conceptual schema, which says community identifiable.

15 DR. EMANUEL: That's here, right?

16 MR. HOLTZMAN: Right. Okay. And that's all
17 I'm reading Sheri's second point to say, is that
18 current regulation focuses on identifiability in the
19 context of an individual and an individual only. All
20 right. This commission is acknowledging that there is
21 a sense of identifiability which can exist even in the
22 absence of individual identifiability.

1 DR. MIKE: I just want to say, the discussion
2 is getting confused because she's using terms that
3 you're using differently. I'm just saying that Sheri's
4 presentation should not state it the way it is right
5 now, because it just gets the two sides confused.

6 DR. EMANUEL: Okay, fine. I just think we
7 haven't used the issue of identifiability to refer to
8 communities in our previous discussion, in part,
9 because I think it had different implications for
10 informed consent, among other things, in IRB reviews.

11 CHAIRMAN MURRAY: Bette?

12 MS. KRAMER: First of all, can you put your
13 slide back up, Sheri? It's also jumping ahead to
14 whether or not we really demand consent from the group,
15 which we really haven't discussed. I'd like to go back
16 to this. You're focusing on dealing with the group, to
17 what extent? I mean, you've left that very vague, but
18 there seems to be something implicit in it.

19 MS. ALPERT: I'm not sure I understand the
20 question.

21 MS. KRAMER: All right. You said, where group
22 research is proposed, researchers should involve

1 leaders from within the group -- the research is being
2 done.

3 MS. ALPERT: Right.

4 MS. KRAMER: Now, are you envisioning that
5 they would have a veto?

6 MS. ALPERT: In the context of the Human
7 Genome Diversity Project, they do. The question is
8 whether or not you want to go that far. I doubt that
9 you would, and it's not necessarily appropriate to.
10 But the main point of that is that they should just be
11 involved with the process, and perhaps the process of
12 the research design will change as a result of having
13 those groups involved.

14 DR. COX: I really, again, think that the sort
15 of trying to talk in specifics is important, and that's
16 one of the things that you just did a second ago. So
17 if you're talking about a tribe of people, in the
18 context of the Human Genome Diversity Program and
19 someplace in the Amazon, it's a very different issue --

20 MS. ALPERT: Absolutely. Ashkenazi Jews in
21 the United States.

22 DR. COX: -- than talking about informed

1 consents. Yes. Ashkenazi Jews or some socially
2 defined group in the United States.

3 MS. ALPERT: Yes. Yes.

4 DR. COX: Because we're talking about groups
5 here very generically, right?

6 MS. ALPERT: All right. Again, the way I'm
7 defining groups right here is not necessarily a social
8 group or a disease group, necessarily, but an ethnic,
9 racial, or cultural.

10 DR. COX: Why?

11 MS. ALPERT: Well, that's a valid question.
12 Because --

13 DR. EMANUEL: For at least some of this
14 genetic research, they're likely to be the ones singled
15 out.

16 MS. ALPERT: Right.

17 DR. COX: But I would argue that most of the
18 reason for singling out groups are for social and
19 cultural reasons, not for genetic reasons at all. In
20 fact, for figuring out whether groups have genetic
21 components, those groups are picked socially and
22 culturally, not genetically. So, I mean, this is a

1 very tricky business. We're implying that it has a
2 biologic or genetic basis to the group. And I will
3 tell you, just from the pure science part of it, it
4 doesn't. It doesn't.

5 DR. HANNA: But I think you have to remember
6 that -- I mean, here's something you can borrow from,
7 the insurance industry. They use group analysis to
8 determine risk.

9 DR. COX: Bingo. I completely agree with
10 that. But those are going to be group analyses that
11 are based on social and cultural prejudices most of the
12 time rather than on the basis of scientific
13 information. That's the only point that I'm making.

14 DR. HANNA: I think the connection with
15 people's fears about discrimination are tied -- they're
16 linked right now. Until they're unlinked, I think that
17 that's why there's a tendency for people to think in
18 this group way, because when insurance companies do
19 underwriting, your age, your race, your ethnicity.

20 DR. COX: Kathi, I'm not saying they're not
21 going to be thinking in these group ways, but I'm
22 saying it's going to be much broader than we're even

1 defining it right here. Religious groups. That's why
2 I think it's not very useful to think of this in the
3 context of tribal ethnic groups because --

4 MS. ALPERT: Maybe the Human Genome Diversity
5 Project was not a good example to use then, because
6 obviously in the United States that's going to be more
7 difficult, unless you're doing Native American groups
8 and other indigenous populations in the United States.

9 I fully recognize that trying to find a
10 community leader in the Irish American community is
11 going to be next to impossible.

12 MR. HOLTZMAN: Except in Boston.

13 (Laughter)

14 MS. ALPERT: You'll find a lot of them?

15 DR. COX: It won't be impossible, because
16 you'll have self-appointed leaders.

17 MS. ALPERT: Right. Well, yes.

18 DR. MIIKE: There's a threshold question here.
19 Has the research been firm on the basis of, let's go
20 look at this ethnic group?

21 MS. ALPERT: Sometimes it is.

22 DR. MIIKE: But that's what I'm saying.

1 That's why these terms are too general, in the sense
2 that you take a small community or we have an Indian
3 tribe, or you have an ethnic group. Now, the former,
4 you can have people who are legitimized leaders that
5 can speak for them. The others, you don't.

6 MS. ALPERT: Right.

7 DR. MIKE: So another consideration is that -
8 - research project that happens to end up in a
9 particular -- among research subjects that you can
10 identify with a particular characteristic or grouping
11 or whatever, or do you pick a group and then you do the
12 research? So how you deal with these recommendations
13 depend on how you ended up in the project, so there are
14 at least those two there. One, is that if you decide
15 you want to look at Ashkenazi Jewish women and because,
16 for certain reasons, like the breast cancer kinds of
17 studies, it was convenient to pick them, that raises
18 different issues than you sort of do -- you start a
19 research project and you say, oh, look what happened,
20 there's a whole predominance of Irish Americans in
21 here. Then the second level of that is, given that and
22 your concern about group kinds of things, how are you

1 going to deal with the issue about consent or
2 participation in the research design, et cetera?

3 Because didn't we hear about in the Jewish
4 women's studies that your Boston people said no, the
5 San Francisco said yes? Now, who's to win? If you do
6 the research in San Francisco, will it have the same
7 implication as Boston?

8 MS. ALPERT: Yes. What I was getting at was
9 your first point, where you know up front that the
10 protocol is looking at a specific group.

11 Now, again, this recommendation we put up here
12 is out of context of the rest of the discussion, where,
13 as I said, what I was dealing with was more the ethnic,
14 racial, cultural kinds of groupings of individuals.

15 You wanted to say something else?

16 DR. MIKE: Yes, but not related to what we're
17 talking about. What do you mean by non-medical group
18 risks or harms?

19 MS. ALPERT: Stigmatization.

20 DR. MIKE: So it's a tautology in the sense
21 that just by -- it's not a harm, per se, but it's in
22 the application of the research there is harm.

1 MS. ALPERT: It's --

2 DR. MIIKE: You see what I'm getting at?

3 MS. ALPERT: Yes.

4 DR. MIIKE: Well, there really isn't any harm.

5 But just the fact that they are now a group that is in
6 the research protocol, it's never an issue about, okay,
7 we happen to be in a group that's ethnically identified
8 in this particular research protocol and the research
9 results end up in a possible stigmatization.

10 DR. COX: Rich versus poor. You look at poor
11 people versus rich people. Now, does that have
12 anything to do with genetics? There's a lot of people
13 that would say it does.

14 MR. HOLTZMAN: If your parents had a lot of
15 money.

16 (Laughter)

17 DR. COX: You've got green genes.

18 MR. HOLTZMAN: If you go at a very simple
19 level in number one, and this comes back to what I
20 think PRR, whatever it is, issued as a directive, is
21 that in certain kinds of research there are
22 contemplatable harms which are non-medical.

1 For example, you might discover something
2 about the status of paternity in a study, not directly
3 to finding that out. Therefore, it raised the bar on
4 the nature of the kind of consent that one needed to --
5 whether or not this section was in play. So that has
6 nothing to do with groups. I don't think we should
7 confuse those issues.

8 CHAIRMAN MURRAY: There is a group, sort of
9 non-medical harm, that is very plausible.

10 MR. HOLTZMAN: But that comes to, I think,
11 again --

12 CHAIRMAN MURRAY: Having nothing to do with
13 disease. I mean, having to do with the genetics of
14 various behaviors and other things.

15 DR. MIKE: But, you see, this is listed there
16 where there are three, and it's under the heading
17 "Group."

18 MR. HOLTZMAN: I think that's --

19 DR. MIKE: That's what I was getting at.
20 Your example is not a group kind of thing.

21 CHAIRMAN MURRAY: Right. I'm talking about a
22 group situation where you're looking at personality

1 attributes, propensities towards violence, social
2 behavior, the sorts of things that some people are
3 studying. Not medical, but can clearly come back and
4 sting the group that is being studied.

5 MR. HOLTZMAN: So why don't we just
6 conceptualized it this way. Forget group versus
7 individual for the moment. Do we agree with the OPRR
8 that there are non-medical harms which arise from the
9 study, and, if that is the case, that the sort of bar
10 gets raised on the study? I think that's clearly the
11 case.

12 Then I believe this committee has also said
13 that the notion of community linkage can exist in the
14 absence of individual identifiability. We haven't
15 quite figured out what community and group may be, but
16 that we can certainly think of cases where that is
17 paradigmatically true and that, if that's the case,
18 that it's a salient consideration in the nature as a
19 consideration that has to be taken into account. You
20 don't disagree with that, do you?

21 DR. MIIKE: I don't disagree with that. It's
22 in the details.

1 MR. HOLTZMAN: And now we're going to have to
2 play it out in the details. All right. So there's an
3 objection, maybe in point three, is that maybe it
4 depends on how much you want to leave it to Sheri's --
5 around the word "group" as to what follows from it. I
6 mean, she's putting in a robust kind of group consent
7 process.

8 DR. EMANUEL: It's worth people knowing, the
9 new FDA guidelines about no informed consent research
10 related to emergencies. The FDA has required that the
11 community be consulted and participate. Now, in a
12 sense, everyone is scurrying for, well, what does that
13 mean? Is that the catchman area for our emergency
14 room, is it depending upon the research, et cetera?

15 So it's a serious problem, but it's not
16 unique, as it were, to us. I think there is this
17 tension, this undeveloped situation, where we recognize
18 things that we're doing have an impact on the
19 community. We have difficulties defining the
20 community. Nonetheless, we feel some obligation to go
21 out and consult with them, even get their consent,
22 whatever the phrase is.

1 But I'll put it this way. The FDA felt
2 comfortable enough to put it right in their regulations
3 and require it before this research could go forward
4 without going through the levels of specification of
5 exactly who's going to qualify, leaving a lot of that,
6 frankly, to the IRBs to decide. But maybe that's a
7 second order issue.

8 CHAIRMAN MURRAY: Let me make a suggestion.
9 For many reasons, I'm sorry that Bernie Lo isn't here,
10 but especially because Bernie has taken a particular
11 interest in the issue of group consent.

12 He's talked about his experience and the
13 experience of other people with whom he works in
14 working towards community assistance, consent, and
15 research, I think primarily in HIV.

16 But Bernie has some, I think, very rich ideas
17 about how to think about this issue, and even some
18 practical steps that one might take. I'm reluctant to
19 spin our wheels on it in his absence, and I presume
20 he'll be with us in December.

21 As far as we know, I think he'll be here in
22 December. Well, I will twist his arm to be here in

1 December. But I'm just going to propose that, rather
2 than get hung up on the group issue today, we try to
3 hold off on that and tackle it full force in December
4 when he can be here. Is that all right?

5 DR. EMANUEL: Good idea.

6 MS. KRAMER: Tom, in his communication he
7 indicated that where he thought the benefit of
8 interacting with a group was, it seemed to me, this is
9 the way I read it, was in fleshing out the research
10 protocol in increasing or refining the number of
11 participants, but not in giving them any veto over the
12 research, not in actually requiring or allowing them to
13 give an informed consent. It was more informal.

14 CHAIRMAN MURRAY: Well, I think we need to
15 have Bernie here to develop further these thoughts on
16 that. I would be reluctant to speak for him.

17 MS. ALPERT: Can I just say one thing.

18 DR. GREIDER: I want to raise a totally
19 unrelated issue, but it has to do with the thing you
20 just took off. We're not done discussing this, right?

21 MS. ALPERT: I'll put that back up. I'm not
22 necessarily suggesting that groups have veto power,

1 but, to the extent that whatever community involvement
2 can be obtained, that the results of that go into an
3 informed consent for the individuals who are going to
4 be consenting for any kind of a prospective research
5 protocol so they can evaluate for themselves whether
6 they want to participate.

7 CHAIRMAN MURRAY: Maybe you've opened the
8 possibility of effectively a community veto over
9 retrospective research. We just have to think those
10 things through, and I just feel like we'll do a better
11 job with Bernie Lo sitting with us.

12 MS. ALPERT: I just wanted to say that.

13 DR. GREIDER: I just wanted to raise a
14 somewhat unrelated issue, and it gets to the heart of
15 the fact that the first recommendation you put up there
16 ends in "participating in genetic research." It's
17 taken as a presumption in what you've written here that
18 genetic research is no different than other research.

19 MS. ALPERT: Right.

20 DR. GREIDER: And I just want to raise for
21 this committee that we need to think about that and
22 discuss it before we have it written into all of the

1 things sort of explicitly that that is true. So I just
2 want to raise that for us to think about because,
3 personally, I don't necessarily agree with that, and
4 it's implicit through everything that you've written.
5 So we need to consider that explicitly.

6 DR. EMANUEL: But I thought, actually, a lot
7 of the conclusion from our last meeting was -- and a
8 recognition that that wasn't the case, that lots of
9 these concerns extended way beyond genetics.

10 DR. GREIDER: But all I'm saying is,
11 everything that she's written, it's explicitly
12 distinct, which I feel like we didn't come to that
13 conclusion. So should we think about it again before
14 we have it sort of seep into the way things are set? I
15 don't know that we explicitly decided anything.

16 MR. HOLTZMAN: And if we explicitly decide
17 that, we think it's not a useful distinction, we can
18 certainly write that in the body of our report so that
19 it doesn't embody that distinction. We probably need
20 to argue for why it's unimportant, and I think that's
21 in Kathi's outline.

22 But then the question is, when you publish

1 your appendices which include the contracting papers,
2 to what extent is one comfortable having papers
3 reflecting that as a conceptual starting point?

4 DR. EMANUEL: I think the charge to Sheri was
5 to look at the genetic side of it, but I think part of
6 my conscious point of distributing the papers I did
7 last time was to say, look, these issues come up.
8 You're not looking at genetics, you're looking at
9 angiogenesis. You're even just looking at records
10 review. So it's --

11 CHAIRMAN MURRAY: Do we want to ask Sheri to
12 do what would be, in effect, a pretty light revision,
13 to take out the emphasis on genetics, or do you want to
14 leave it as it stands?

15 DR. EMANUEL: I don't think it's that light a
16 revision, actually.

17 CHAIRMAN MURRAY: You don't think it's that
18 light a revision.

19 DR. GREIDER: Well, and it could be said
20 explicitly that this is about genetic research, and not
21 that it is somehow distinct from other research. But I
22 haven't actually read this second draft.

1 The first draft that I saw said explicitly
2 that genetic research is different than other kinds of
3 research, and that's not how I felt that we were coming
4 to a conclusion in this commission, so I felt
5 uncomfortable with the way it was previously.

6 CHAIRMAN MURRAY: I don't recall that.

7 DR. GREIDER: I certainly do.

8 DR. EMANUEL: In the first draft, perhaps, I
9 don't recall.

10 DR. GREIDER: I'm sorry. I haven't gotten to
11 the second one.

12 CHAIRMAN MURRAY: Would you put a paragraph
13 in, at minimum, Sheri, just explaining that the initial
14 charge was to look at the implications in genetics
15 research, since we're all the Genetics Subcommittee,
16 but that one should not read into that that the issues
17 that we raise are solely --

18 MS. ALPERT: Okay.

19 DR. MIKE: In your original outline, wasn't
20 there supposed to be a section that addressed this
21 issue head-on, about whether genetic research was any
22 different? Wasn't there --

1 MR. HOLTZMAN: We need that. That's very
2 important, I think.

3 DR. GREIDER: I mean, we need to discuss that.

4 MR. HOLTZMAN: That's in Kathi's. It's in our
5 report outline.

6 DR. MIKE: No. But I thought it was in
7 Sheri's original proposed paper.

8 CHAIRMAN MURRAY: Sheri doesn't even remember.

9 MS. ALPERT: Sheri doesn't remember it.

10 MR. HOLTZMAN: No. I mean, for example, if
11 you look in Sheri's paper on page 2, the third full
12 paragraph, the sites -- the typical place in the
13 literature about why genetic information is
14 distinctive.

15 DR. GREIDER: Right. That's why I mean that
16 it's implicit throughout, yes.

17 CHAIRMAN MURRAY: I would request that you
18 leave open the issue of, and in fact, I think, reflect
19 our intentative conclusion, that genetic research in
20 this context and in these types of uses is not --
21 there's no clear and bright line between genetic
22 research and other forms of research.

1 DR. EMANUEL: Yes. You might say that it's
2 paradigmatic or opening our eyes to this, but that we
3 can see it's probably true in lots of other types of
4 research.

5 CHAIRMAN MURRAY: That's a good way of putting
6 it. Thank you.

7 Any other questions for Sheri? We are running
8 behind and I do want to get the next paper up here as
9 soon as possible.

10 (No response)

11 CHAIRMAN MURRAY: Thank you, Sheri, for your
12 good work on this.

13 Robert Weir. Thank you for coming in from
14 Iowa.

15 DR. WEIR: Yes.

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21 THE ONGOING DEBATE ABOUT STORED TISSUE SAMPLES
22 AND INFORMED CONSENT: UPDATE

1 By Robert Weir, Ph.D.

2 DR. WEIR: Well, you have received, as I
3 understand it, the text of the paper that I wrote, so I
4 will simply make some very kind of cursory comments
5 about it, going to just a few parts of it, and then be
6 prepared to discuss it with you.

7 The first page is an attempt to sort out three
8 sets of issues in the sense of questions. Again, I was
9 commissioned to write a paper having to do with the
10 debate that has developed in our country about the
11 issue that we've been talking about this morning.

12 Some of the questions have to do with, how
13 specific do consent documents used in research settings
14 need to be regarding the intended purpose of research
15 study in order for research petitioners to get informed
16 consent?

17 Another cluster of issues really focus around
18 the question, how much information about the
19 possibility of post-diagnostic research on stored
20 tissue samples needs to be given to patients in
21 clinical settings in order for them to give informed
22 consent?

1 Third, how much can the ethical and legal
2 requirement of informed consent research be expanded
3 and strengthened before this beneficial research is
4 done by geneticists, pathologists, and other
5 researchers is seriously impeded?

6 In the paper I tried to go through all of the
7 major documents that I know about that have been
8 published, or not published, a number of position
9 papers that have been put forward for our consideration
10 by the American Society of Human Genetics, the American
11 College of Medical Genetics, the College of American
12 Pathologists, the AAMC, the Korn Group, and others, and
13 tried as best as I could to sort out their various
14 claims and kind of see where they agree and where they
15 don't agree.

16 Then, if you have the text with you, I tried
17 to put in some kind of capsule form on the bottom of
18 page 17, what I see as the issues of competing bounds
19 in this debate.

20 I say, in its simplest form this is a debate
21 between, on the one hand, professional groups and
22 individuals who think that in the era of molecular

1 genetics, increased emphasis needs to be placed on the
2 distinctive importance of personal and familial genetic
3 information, the right of personal choice about the use
4 of one's body and the tissues taken from it, and the
5 necessity of being able to exercise a measure of
6 control over that research, over the research that can
7 be done with one's tissues.

8 On the other hand, professional groups and
9 individuals who think that in an era of ever-increasing
10 professional and legal regulations, renewed emphasis
11 needs to be placed on the invaluable, and ultimately
12 replaceable, research resource represented by stored
13 tissue samples, the societal and individual benefits
14 that can be gained by means of this research, and the
15 serious threat posed to the continuation of these
16 research efforts by unnecessarily restrictive policy
17 proposals and legislative bills.

18 Now, after describing what has happened in the
19 literature, I provided a couple of examples having to
20 do with research on stored tissue samples, one of them
21 having to do with neonatal blood spots and the other
22 one having to do with research that has been done with

1 Native Americans.

2 The next section then sorts out several policy
3 alternatives--this begins on page 22--which include at
4 least some groups which seem to me to have taken public
5 positions that basically are arguments to retain as
6 many traditional research practices as possible without
7 doing very much to strengthen informed consent
8 considerations.

9 A second possible solution is to come up with
10 new professional society guidelines, and so some of the
11 groups have tried to do that.

12 A third possible solution that at least
13 certain parts of the NIH have tried to do is to come up
14 with consensus conferences or consensus meetings where
15 competing groups can perhaps come up with a measure of
16 agreement. One can debate how well these consensus
17 conferences work.

18 A fourth possible solution is to recommend
19 changes in the Federal regulations and IRB review
20 practices. Some of the documents do this, or at least
21 make these recommendations.

22 A fifth possible solution is simply to produce

1 better consent forms.

2 The sixth possible solution is to mandate
3 changes by law.

4 Then I got to the point of simply tossing the
5 ball into your court and having the kind of interesting
6 experience of saying, well, you folks ought to do all
7 of these other things because I don't have the time to
8 do them right now, or the resources, so I threw a
9 number of balls in your court.

10 I won't go through those, except to say that
11 fortunately, at least the first one on page 30 that
12 talks about the need for more data, clearly you're
13 doing that. You're going to come up with some numbers
14 that I sort of didn't know that I think would be
15 extremely helpful to help us get a handle on at least
16 the size of the storage of tissue samples.

17 Then I basically closed off by suggesting a
18 couple of things, it seems to me, that the operative,
19 substantive principle should be to use reasonable
20 person standards for informed consent and to see where
21 that gets us on this debate, and also to urge some
22 practical kinds of steps to be taken by institutions in

1 which stored tissue samples exist, including hospitals,
2 to at least apprise patients that post-diagnostic
3 research on their tissue samples is a possibility and,
4 perhaps depending how specific different institutions
5 are going to go, giving them some choice or say in how
6 that research might be done.

7 I tried to cover a lot of the waterfront very
8 quickly. I hope that the analysis seems to you to be
9 careful, accurate, and reasonable. I tried very
10 deliberately, as I do in a lot of the work that I do,
11 to try to carve out some kind of middle-of-the-road
12 position. We can talk about whether I did that or not,
13 or whether you should do that or not. So --

14 CHAIRMAN MURRAY: Questions?

15 DR. MIKE: Well, one thing that jumped out at
16 me, and I don't see the justification so I'm curious
17 about it, is on page 31 where you call for the
18 discontinuation of anonymizing stored samples without
19 the consent of the person. What is the issue you're
20 trying to address with that, and why did you come up
21 with that specific recommendation?

22 DR. WEIR: Well, because that seemed -- I was

1 a participant in that first consensus conference on
2 this issue back in July of 1994, and that seemed to be
3 a major bone of contention among the people gathered in
4 that group. It seemed to be the point at which some of
5 the geneticists at that conference said, we may agree
6 with a lot of other of your recommendations, but we
7 can't agree to that one.

8 DR. MIKE: No, no. That's fine. But I want
9 to know what the problem is that you're trying to
10 address with this particular solution.

11 DR. WEIR: Well, the problem I'm trying to
12 address is the practice that seems to me to be fairly
13 common, at least in certain research areas, of taking
14 samples and anonymizing them and doing it in such a way
15 as to suggest that there is absolutely no ethical
16 problem in doing this, that nobody cares, that it
17 doesn't matter to anybody.

18 And I have been at least curious enough about
19 this among other issues here that I've done a few pilot
20 studies, surveys, in connection with the grant proposal
21 that I have pending, to try to find out if this bothers
22 -- I mean, if this is kind of a theoretical problem

1 that only academics like me worry about, or if it's a
2 real problem with real people.

3 DR. MIIKE: But I think it's a real problem
4 and you're worried about that nobody cares about it. I
5 still don't know why this is the solution, to get
6 consent from the person. To say that, I consent to
7 anonymizing, why that particular solution to that
8 problem?

9 DR. WEIR: Because it gives the person for
10 whom the tissue sample comes a vote or a say in that
11 rather than simply doing it automatically without
12 giving that person the kind of say.

13 DR. MIIKE: Is your proposal then that at the
14 time the anonymization may occur, that they're to be
15 asked, or at the time that they give the tissue --

16 DR. WEIR: Yes, the latter.

17 DR. MIIKE: So it would be just within a range
18 of kinds of things to say, this may happen to your
19 tissue.

20 DR. WEIR: Yes.

21 MR. HOLTZMAN: Can I ask for a clarification?

22 DR. WEIR: Certainly.

1 MR. HOLTZMAN: Are you talking about an
2 irretrievable, irreparable anonymization of the sample,
3 and that is where you were saying that that only ought
4 to take place with consent, or are you saying that it's
5 with respect to uses of the tissue in an anonymous
6 fashion?

7 The reason I'm asking that question is, it
8 seems to me that there's sometimes a systematic
9 confusion, again, between, are we talking about the
10 sample or the research.

11 Many people have argued that, while some
12 people say just anonymize the tissue and therefore
13 everything will go forward, others have argued against
14 that as being problematic because you can't do the
15 epidemiological work of adding information. On the
16 other hand, it makes it impossible to go back and have
17 the personal, individualized benefit. So I'm asking,
18 what was at stake here when you made this
19 recommendation?

20 DR. WEIR: What I was thinking about when I
21 made that recommendation was the former of your
22 options, that is, anonymizing the sample itself.

1 MR. HOLTZMAN: So you're not arguing here --
2 well, let me ask it as a question. Are you arguing
3 here that in the case of a sample which has not been
4 irreparably anonymized, that the individual's consent
5 has to be sought, either up front or downstream, for
6 the use of that sample in an anonymized fashion in
7 research?

8 DR. WEIR: Could you give me an example of
9 what you're thinking about when you raised the
10 question?

11 MR. HOLTZMAN: Sure. Zeke's a pathologist.
12 He's got a collection that's tied to the individuals.
13 I'm a genetic researcher. I come to him and say, I'm
14 interested in people with colo-rectal cancer. He
15 passes on the sample to me such that I can't identify
16 who the individual is, or group, for that matter. I'm
17 conducting the research in an anonymized fashion. I
18 publish my results, and it would be impossible to say
19 that Individual 2750 in my study is so and so.

20 DR. MIKE: It doesn't matter though, because
21 if you're asking for the consent up front --

22 MR. HOLTZMAN: But which consent is he asking

1 for?

2 DR. WEIR: Well, actually, if I were -- this
3 quickly gets to the problem of the distinctions that I
4 and some other people might think is important, and how
5 much you can actually practically ask people without
6 overwhelming them with --

7 MR. HOLTZMAN: Well, put aside the pragmatics
8 for a moment. I'm asking the question of which you
9 were recommending here. It's a very simple question.

10 DR. WEIR: Well, I'm concerned about both of
11 them.

12 MR. HOLTZMAN: So which are you recommending
13 here, both?

14 DR. WEIR: I was thinking when I was writing
15 that, I was writing it about the anonymized samples
16 themselves rather than the anonymous research use of
17 the sample.

18 DR. EMANUEL: I've got two issues. The first,
19 goes back to this divide that you gave us on pages 17
20 and 18. I read it as Korn vs. Clayton, you know,
21 unvarnished. I find that actually very unhelpful.
22 They do represent polar opposites of the debate, but I

1 think, maybe for that reason or whatever reason,
2 unhelpful.

3 It seems to me part of what we need to say is
4 that both sides have quite legitimate and important
5 values at stake, and the way it's polarized is almost
6 as if you have to choose between them. I think that's
7 a very bad way of putting it.

8 I mean, part of what I think everyone who
9 approaches this should say is, there's a spectrum of
10 values. I mean, if there was only one value at stake
11 it would be relatively simple. But because we have a
12 spectrum of values -- and it's not necessarily that
13 what we're doing is balancing the values. I don't like
14 that metaphor for lots of reasons.

15 But we have to consider how each of them are
16 played out and realized. So I find that too
17 polarizing. Encouraging people to take a stand
18 without, in some sense, recognizing that they, too,
19 accept the other side, accept the values of the other
20 side.

21 DR. WEIR: Well, I don't appreciate your
22 characterization. It was not an attempt of mine to

1 over-simplify the issue and it is not, as you suggest,
2 Korn vs. Clayton. One of the reasons that the one and
3 the two parts of the sentences go on for an awfully
4 long time is an attempt on my part to build in some of
5 the -- values in that statement.

6 DR. EMANUEL: But you say in the opening of
7 the sentence, "in its simplest form."

8 DR. WEIR: I think it's a complex issue.

9 DR. EMANUEL: And it does say one versus two.
10 I mean, that's the way the sentence is structured,
11 right?

12 DR. WEIR: That's right.

13 DR. EMANUEL: And one is everything related to
14 consent and control, and two is everything related to
15 research.

16 CHAIRMAN MURRAY: I did ask Robert to look at
17 how the debate was structured, and I think he was
18 following through with those instructions when he did
19 this. Now, I also agree with you that, if it turns out
20 there is a much richer cast we can give to this effort
21 to sort of deal with the values.

22 DR. EMANUEL: All right. The second thing I

1 wanted to go to is, the sense of previously collected
2 samples that we now have and the sense of prospective
3 or samples to be collected after some recommendations
4 are laid out.

5 I guess I'm not 100 percent clear whether you
6 think that distinction is very valuable or not and
7 whether you think how much what the ideals, which I
8 think is what we would like to recommend for the
9 future, should work backwards into what we already
10 have.

11 DR. WEIR: I think both. I think the
12 distinction is important. I think that in terms of
13 coming up with policy recommendations in the future, I
14 think at some point, again for reasons of just
15 practicality, we have to acknowledge that there are
16 certain kinds of existing -- all kinds of existing
17 collections for which no informed consent was every
18 given --

19 DR. EMANUEL: Right.

20 DR. WEIR: -- but for which it would be silly,
21 if not impossible, to try to re-consent individuals.
22 So it seems to me that we need to place most of our

1 emphasis upon prospective samples and say that, for the
2 existing samples, we need to do at least two things.

3 We need to come up with criteria for which we
4 can accurately characterize some collections as
5 existing as opposed to other sorts of things, and even
6 that gets to be an interesting kind of question.

7 Second, we need to come up with criteria for
8 research access to those collections. But I think most
9 of the emphasis needs to be placed on the prospective.

10 DR. EMANUEL: That's interesting. I would
11 remind my fellow commissioners that the reason I think
12 this was put high on our agenda is because researchers
13 are now feeling paralyzed about using existing samples.
14 Certainly when I go around talking to and listening to
15 researchers, they feel comfortable putting in a
16 paragraph into their consent forms now that this is
17 what we're going to -- you know, we're going to collect
18 them, we're going to use them for genetics.

19 But everyone is so, we don't know what to do
20 with the past, and that has created a certain hesitancy
21 -- not a certain, but a large degree of hesitancy about
22 going forward with research. IRBs are not sure whether

1 it's ethical or not.

2 So in some sense it's 113 or however many
3 million samples we have out there that is -- you know,
4 everyone is sort of looking at each other about and not
5 doing anything with in a very active, or as active a
6 manner as they might. That actually, if I'm not
7 mistaken, in part, was the motivating factor for us to
8 really take this seriously.

9 CHAIRMAN MURRAY: Yes. I think that is
10 correct.

11 DR. EMANUEL: I think we shouldn't lose sight
12 of that.

13 CHAIRMAN MURRAY: We're not going to.

14 David?

15 DR. COX: Yes. I'd like to say that I found
16 this particular paper very, very helpful, for two
17 reasons. One, I look at it as the exact opposite of
18 what you just said, Zeke, is that I think that, unlike
19 any other thing I've seen written down, this is an
20 actual, not a rewriting of history, but it's an actual
21 recounting of history. You can't help it if people
22 wrote polarized papers, but they did. I also find it

1 not helpful at all, but they exist. I didn't see in
2 your paper a suggestion that we pick one or the other
3 side.

4 DR. WEIR: No.

5 DR. COX: But we live in a world today where
6 this is a polarized issue and it didn't happen just
7 falling out of the sky, it happened because people
8 wrote polarized papers. That's point number one. I
9 find the accurate, historical recording of that
10 extremely useful, if anyone actually wants to get an
11 accurate historical recording of it.

12 The second point, though, which was
13 practically of utility to me, was that I think that all
14 aspects of the issue are encapsulated in your paper.
15 Although it doesn't necessarily give relative weights
16 to those, I found it extremely useful to have all of
17 those aspects incorporated here.

18 What do I mean by that? The distinction which
19 we talk about here in our group, the distinction
20 between, is it research or clinical, the distinction
21 was the samples taken as part of a medical test that
22 they used for later research, all of these sort of

1 different components are here.

2 In fact, it's another basis on which one can
3 make a spread sheet, a chart, like you have done, Zeke.
4 I'm not suggesting we make a new one, but I'm saying
5 that this could be a really good basis for making sure
6 that, in our report, we're at least considering all of
7 the different issues.

8 I get a feeling in our discussions that we
9 frequently do not. What we do is we get focused in one
10 or another of these areas and then we look at it very
11 intensively, instead of saying, all right, what are the
12 practical issues?

13 Where are most of the samples, what are the
14 practical issues for those samples, and how do we deal
15 with them given the fact that today we're in a
16 situation where the issues are very polarized by things
17 that people have already written.

18 So I agree, we're not looking for polarized
19 solutions. But I think to look to this paper as an
20 example -- I'm happy to volunteer to write down what I
21 see this whole broad thing is, to take out of this at
22 least what I see those broad things are.

1 But I found this an extremely, extremely
2 helpful paper, not so much for the recommendations
3 because I'm still sort of agnostic about exactly what
4 we should do, but making sure that we've got the whole
5 structure in place.

6 Right now, I think we've got the cart a little
7 bit before the horse because I don't feel very
8 comfortable that we're discussing the whole structure.
9 We're discussing individual pieces, but not in the
10 context of the whole structure and where each piece
11 fits with respect to the other.

12 CHAIRMAN MURRAY: David, I wonder if other
13 commissioners feel as I do. I'd like to take you up on
14 your offer to write down what you think this is.

15 DR. COX: It's a deal.

16 DR. MIKE: And we can criticize.

17 DR. COX: My pleasure.

18 CHAIRMAN MURRAY: Savagely, of course.

19 DR. COX: I take Zeke to be making a more
20 subtle point, and if it's not Zeke's point, it's my
21 point, without subtlety.

22 (Laughter)

1 DR. COX: I think the paper was excellent as a
2 recitation of the debate as it has existed today. I
3 think that that debate, simplified, is well-
4 characterized on pages 17 and 18 and, indeed, well
5 characterizes Clayton vs. David Korn. Okay. I think,
6 therefore, as we go into this it's very important to
7 have all of those categories that people have used in
8 the debate.

9 But the subtler point, if you will, is to then
10 ask the question, do you want to adopt those terms of
11 the debate? Do you think that that is the most useful
12 way to be thinking about these things? Because what I
13 took as an implicit position here, maybe incorrectly,
14 was, well, we're going to find a middle of the road
15 which takes some of this, and takes some of this, and
16 takes some of this, but, in fact, maybe that's not the
17 right answer. Maybe you're stuck in a way of thinking
18 which is, in fact, not useful.

19 So I take it, for example, when we come to a
20 conclusion that the distinction between clinically
21 versus non-clinically collected with respect to
22 retrospective samples is irrelevant, maybe that's a

1 movement forward in the debate. Okay.

2 Again, I want to point here to the Campbell
3 paper about the range of values on genetic versus non-
4 genetic. We start to say, maybe that's not important.
5 Well, what really was the itch people thought they were
6 trying to scratch using that distinction?

7 So the second half of what you said was
8 saying, once we've got it laid out, then we'll be able
9 to deal with it. I think we need to go past the way
10 people have talked about this.

11 CHAIRMAN MURRAY: In some ways, we're
12 prisoners of our metaphors. The middle of the road,
13 David, reminds me of a saying I think I heard in Texas.
14 The only thing you find in the middle of the road is
15 yellow lines and flat armadillos.

16 (Laughter)

17 DR. COX: Exactly.

18 CHAIRMAN MURRAY: And I don't think we want to
19 be there.

20 DR. COX: I completely agree with you from the
21 point of view that, just because people write extreme
22 situations, that you don't try and sort of make

1 necessarily lemonade out of it, although we've heard
2 examples in a paper that suggested that that may be a
3 good thing to do. I would say that if we don't have
4 for ourselves what the whole picture is, then we're not
5 in good shape.

6 MR. HOLTZMAN: I agree with that. All I'm
7 saying is, the whole picture has been articulated
8 against a certain conceptual formula, in which
9 framework it is the whole picture. It may be the wrong
10 picture.

11 DR. COX: I don't disagree with that. I
12 actually think there's components here that are much
13 broader than anything that's been published. That's
14 why I liked the paper. But I'm just encouraging our
15 genetics group to have a picture. Maybe we do, but
16 I've got the stuff from the last meeting and
17 everything, and if we do, okay, then I'd like somebody
18 to write it down for me because I don't know what it
19 is.

20 So I'm more than willing to write down what I
21 think the components are that go into it. Kathi, you
22 have an outline for what our report is, but I still

1 don't know, overall, what the components that I'm sort
2 of trying to put things into context for.

3 I know what our discussions of individual
4 pieces are, but I just don't feel like I've got my arms
5 around it.

6 CHAIRMAN MURRAY: Well, we're going to make a
7 real effort to get our arms around it after the joint
8 session, because we have the time really to ourselves
9 to struggle with this.

10 DR. EMANUEL: Actually, I guess, David, that's
11 what I would -- I'm a little -- I mean, we have a sort
12 of two-month window here before we really want to
13 report, either in good shape or releasable, and I guess
14 my question to you is, I'm not sure what the metaphor,
15 the whole picture, is supposed to refer to because --

16 DR. COX: Let me be very specific then. All
17 right. Again, this is very reductionist. We have
18 certain types of samples that are stored, right?

19 DR. EMANUEL: Right.

20 DR. COX: And we have cross cutting that
21 certain types of issues with respect to consent and
22 ethical issues. I want to know sort of, what are the

1 practical considerations that I'm applying those
2 ethical issues to?

3 I don't want to just look at them
4 theoretically, I want to look at them practically.

5 We've had really good -- I mean, I'm not saying I'm not
6 interested in theoretical papers. We've had good
7 theoretical papers. But at the end of the day we're
8 applying what we've learned to that to practical
9 situations.

10 I want to make sure that we're not missing
11 some of those. It doesn't mean that we have to go
12 through and look at every type of tissue sample that is
13 done, it doesn't mean we have to consider every ethical
14 situation or every consent situation that comes
15 forward, but I want to make sure, what are the big
16 ones?

17 DR. EMANUEL: David, I guess part of the
18 effort I tried to do last week, successfully or not,
19 and that's for everyone here to do, and part of what I
20 thought the benefit of the conversation was, is we got
21 to some of the useful distinctions. We weren't talking
22 about anonymous tissues, we were talking about

1 anonymous research or research done in an identifiable
2 manner.

3 We did actually bring a lot of this down to a
4 practical framework and talk about, you know, it's
5 consent here, IRB review there, and part of the reason
6 for bringing in some of those papers and some of the
7 examples was to give it a very practical spin.

8 Now, again, maybe in your view that framework,
9 as refined, did not get the whole picture. Maybe we're
10 leaving out some key element.

11 DR. COX: Or define the whole picture. I'll
12 give you a practical example. Steve just said, maybe
13 it's not useful to think about things being clinical
14 versus non-clinical. Have we decided that?

15 DR. EMANUEL: Well, part of our discussion
16 last week, we did have a sense that, in the previously
17 collected samples, that distinction was not going to be
18 helpful. That was obviously no final, but that was a
19 tentative.

20 DR. COX: You see, it's issues like that that
21 are very important to me, not because I have a stake
22 one way or another, but once we decide those. So if

1 that's something -- it's sort of where we are in the
2 discussion then, the key points like that, because they
3 inform where we go.

4 So, I mean, it's not taking a vote, but it's
5 saying, if we're there, then a lot of other discussions
6 we don't have to have right now because we're there and
7 it informs what we do further on. I'm at a
8 disadvantage because I wasn't at the last meeting, but
9 I read the transcripts, I got everything, and I don't
10 get a feel for what those points are.

11 CHAIRMAN MURRAY: Are there other questions of
12 Robert Weir at this time?

13 (No response)

14 CHAIRMAN MURRAY: Robert, thank you. I think
15 you've heard, I hope, that your paper has been very
16 useful to us.

17 DR. WEIR: Oh, sure. Thank you.

18 CHAIRMAN MURRAY: We really appreciate this.

19 If I could ask Mark Sobel and Frances Pitlick
20 to join us for the next 25 minutes or so.

21

22

1

2

3 ONE-WAY TRANSFER OF TISSUE INFORMATION: COMMENTARY

4 By Mark Sobel, M.D., Ph.D. and Frances Pitlick, Ph.D.

5 DR. SOBEL: Fran and I prepared some

6 preliminary flow sheets, which I'll send down on both
7 sides.8 CHAIRMAN MURRAY: Mark, for the record, could
9 you just explain what you've done.10 DR. SOBEL: Yes. We were asked to really
11 expand and comment on the proposal that Zeke made at
12 the last meeting concerning the one-way track, so in
13 essence we're talking about the opposite, in a sense,
14 of what Dr. Weir just talked about and we are trying to
15 liberalize policies for the use of tissue and
16 anonymization. I have overheads to go with the written
17 material.18 So we really want to think about ways in which
19 we could maximize use of this so-called one-way track
20 and we started with certain basic principles which, if
21 you'll see at the bottom, really have been adapted,
22 modified, and sort of expanded on from a paper that

1 appeared in *The Journal of Investigative Medicine*
2 earlier this year by John Merz, Sankar, Taube, and
3 Livolsi.

4 The basic principles of this one-way track is,
5 first of all, that it isn't a published interest to
6 facilitate research on human tissues; that linked
7 tissues permit the updating of outcome data and permit
8 follow-up; that the identifiability of a tissue is
9 directly related to the risk of improper disclosure of
10 research data, so we must be concerned about potential
11 risks; that identifiability raises the potential for
12 the misuse of research information in the clinical
13 management of patients; and, therefore, that stringent
14 mechanisms should be in place to prevent the feedback
15 of research information to individuals or medical
16 records, except under informed consent and specific
17 approved policies.

18 So we start with basically the paradigm that
19 Zeke showed us.

20 DR. MIIKE: Can I ask you a question?
21 DR. SOBEL: Sure.

1 DR. MIIKE: The second to the last issue about
2 misuse of research information in clinical -- can you
3 expand on this?

4 DR. SOBEL: Yes. That really comes from CLEA,
5 which basically states that tests that are used to
6 determine the management of patients' clinical care
7 should be regulated, performed in certified
8 laboratories, under certified conditions. So that, in
9 essence, the vast majority of research that's conducted
10 in most research laboratories does not meet those
11 criteria. I'm not just talking about genetic research,
12 I'm talking about all sorts of research.

13 DR. MIIKE: But this thing doesn't capture
14 that. I mean, I read this and I said, what do you mean
15 by that? But you're talking about more like
16 standardization.

17 DR. EMANUEL: No, no, no. He's talking about
18 release of information that you get in the research
19 center.

20 DR. SOBEL: I'm talking about the research
21 information from my laboratory when I decide that I'm
22 going to develop some test, and no one else has

1 reviewed the scientific validity and utility of that
2 test, that that should not wind up in the medical
3 record and some clinician should not use that
4 information to affect their care. That's what that
5 means.

6 DR. EMANUEL: But the calling of a patient
7 when you get a test result in a research setting.

8 MR. HOLTZMAN: Absent validity, absent
9 establishment of validity --

10 DR. COX: But the definition of test validity
11 and utility is very different for clinical validity and
12 utility.

13 DR. SOBEL: Exactly.

14 DR. COX: And CLEA certainly doesn't say very
15 much about clinical validity and utility.

16 DR. SOBEL: No. But the new LC task force on
17 genetic tests does start to address that issue and does
18 bring up the issue of clinical utility, although it
19 states that you might not be able to -- you might want
20 to start using a test before there is a final
21 resolution, but there has to be a continual updating of
22 information to assess clinical utility before it is

1 generally accepted, before a test would become
2 generally accepted.

3 MS. LEVINSON: It's an improper rather than --

4 DR. MIKE: How is that any different from
5 medical practice? They do that all the time.

6 DR. SOBEL: That's a very good point and it is
7 a concern.

8 DR. MIKE: Sorry for --

9 CHAIRMAN MURRAY: That was an important
10 concern.

11 DR. SOBEL: I mean, we just wanted to have
12 target points here for you to consider. But I think it
13 is a very important point that there is a potential for
14 the use of research information in a clinical setting
15 where it is not clear to many of us that that is
16 appropriate in most situations, if at all.

17 I think it is a true concern, and we are
18 trying to work, as you will see through these flow
19 sheets, on ways for you to consider in which perhaps we
20 can still perform research and get research information
21 out, but it would not directly impact back on the
22 clinical care of the actual patient.

1 CHAIRMAN MURRAY: Mark, in part because this
2 was a concern that our participants in mini-hearings
3 expressed, they'd want to know if things were
4 discovered in research that would be of relevance to
5 them. It is important to just sort of nail this down
6 provisionally. What I hear are two statements which
7 are not contradictory, but just two different glosses
8 of this.

9 One, is that we don't want to have information
10 being fed back to the clinical care of patients when
11 that information is, itself, utterly unreliable and of
12 highly ambiguous clinical relevance. So I think we can
13 all agree to that.

14 The second, and I don't think this is the
15 case, that one would never find in the course of
16 research information would be clinically relevant. In
17 fact, one might find that to be the case.

18 DR. SOBEL: That's right. So what I'd like to
19 point out is that what we're talking about here is one
20 particular approach that one might use in certain
21 situations that does not exclude the already existing
22 mechanisms in which one would put into one's research

1 proposal and get specific IRB approval for a stated
2 mechanism by which you might propose that patients do
3 hear about their information, and that would be in a
4 very specific informed consent paradigm in which you
5 would use clinical material in a research laboratory,
6 for example, for a rare genetic test where it's very
7 hard to meet the high criteria that even CLEA would
8 establish, but at least that would be under informed
9 consent, approved situations.

10 So we're talking about a different paradigm
11 here, what Zeke really started to propose last month,
12 which is that you have your patient or donor of
13 information, you have some sort of health care
14 providing system, and you have a medical record.

15 We'd like to point out that in the medical
16 record there is a number, a hospital chart number,
17 there could be a surgical pathology number, blood bank
18 number, and that we would like to consider the fact
19 that it's not just the data in the medical record that
20 is written down and the lab tests that are printed out
21 with specific numbers, but the actual tissue samples,
22 the actual blood sample, actually also should be

1 considered as part of the medical record. So we'd like
2 to make that sacrosanct, and that is the clinical
3 medical record.

4 Now we want to have a situation in which
5 people want to do research on tissues for the public
6 good, and they're over here. We drew this wall. Some
7 people called it a fire wall, an impermeable wall, or
8 maybe a permeable wall in their instructions.

9 So various terms have been used. We're using
10 the word guardian here, which comes from various
11 editorials in the pathology community in which the
12 pathologist was called the Guardian of the Wax, for the
13 paraffin block.

14 The reason we used that term is I think it is,
15 in a sense, a connotation here that the people that
16 hold the tissue really do feel that they are a guardian
17 of it because they are protecting it and it is there
18 for the patients' benefit, and whatever excess is
19 there, that has to be evaluated and judged to see if
20 there is sufficient material for research purposes.
21 You can use any term you want, but we're really talking
22 about minor distinctions and nuances.

1 That guardian would be, presumably, selecting
2 samples on request of researchers which would probably
3 involve some professional expertise. If it were the
4 pathologist, they would have to have some knowledge of
5 the actual tissue architecture to determine which parts
6 of the block are appropriate for that research study.
7 If it was a clinical specialist of another sort such as
8 the geneticist, they would have to know what blood
9 samples to obtain from the freezer or from their bank.

10 The guardian would provide a research code.
11 In other words, a randomized code, some alpha-numeric
12 code, and they would have a key that would link the
13 research code back to the clinical code that is in the
14 medical record. That key would be kept secured.

15 Then through this wall they would provide to
16 the researchers on the other side the tissue sample
17 with associated data gleaned from the medical record,
18 whatever epidemiological data or factors that were
19 requested, to the researcher. That's really where we
20 left off, for the most part, last month.

21 Now, we made certain assumptions in proceeding
22 further which you may or may not agree with, and which

1 we don't necessarily think are the only ones. But this
2 is where we started trying to think about how we could
3 maximize this type of paradigm.

4 The first, is that the samples in this
5 situation contain under it a so-called blanket consent
6 procedure in which the donor would agree to the use of
7 excess of residual tissue for research and education,
8 but it is unspecified because we don't know exactly
9 what the research is going to be in the future.

10 CHAIRMAN MURRAY: Excuse me, Mark. Is this
11 descriptive of how it's been in the past or is this
12 your proposal for how it would be in the future?

13 DR. SOBEL: Well, to a great extent this is
14 descriptive of what has been in the past, although
15 actually in some situations I think there probably
16 isn't even consent for that in some surgical consent
17 documents, although I think in most cases there is.

18 But certainly prospectively, we can think of
19 still informed consent where you know what research
20 study you're going to do at the time you're obtaining
21 the tissue even in a clinical context, but the vast
22 majority of situations are going to be the ones we're

1 facing now where, four or five years later, there's a
2 new potential use for the tissue that we haven't really
3 quite thought through yet, so there's no, in my
4 opinion, way to really have true informed consent for
5 such future endeavors, except to call it whatever you
6 want to use, blanket, general, unspecified.

7 So we're still saying you can get specific
8 informed consent and do other things to the tissue.
9 We're talking about situations in which this is the
10 best we can do.

11 The second, is that the guardian would be a
12 pathologist or clinical investigator with some special
13 expertise with access to the medical record which
14 includes the tissue samples and would provide a coded
15 sample to research investigators.

16 Now, we are presuming certain things are in
17 place. The first, is that confidentiality and security
18 policies have been approved by an IRB in the setting of
19 the guardian's department. That might be the pathology
20 department or it might be an institutional-wide policy
21 that has been approved.

22 Second, that because of the professional

1 expertise of the guardian, the guardian may be
2 included, for example, as a co-author and get
3 professional credit for this level of contribution to
4 the work, but they're not otherwise involved so far in
5 this scenario in the actual testing of the sample.

6 They are selecting the sample appropriately
7 and that's their contribution to the study, which is,
8 in fact, 90-95 percent of the time the contribution of
9 the pathologist or the clinical specialist when they
10 give samples out to other researchers.

11 Yes?

12 DR. HANNA: The implication is that the
13 guardian has some clinical expertise.

14 DR. SOBEL: Enough to read the medical record
15 and glean the appropriate information.

16 Now, third, that the research team would
17 request the tissue sample and the clinical information
18 from the guardian. The guardian would provide the
19 research code, keep the key, then the research team
20 would receive the coded tissue samples with the
21 available clinical data that was extracted from the
22 record.

1 Now, in this paradigm, as far as the research
2 team is concerned, the coded samples are anonymous.

3 DR. EMANUEL: We don't use that linguistic
4 phrase anymore.

5 DR. SOBEL: You can change that. You get the
6 point, I think. Under this scenario, therefore, the
7 research study could be exempt from IRB review. Now,
8 the next point which I want to make, which is on my
9 next flow sheet, is that no data from the research team
10 can be linked back to the guardian of the medical
11 record. That has to be a proviso if the research study
12 is going to be exempt from IRB review.

13 So the next flow sheet is very similar to the
14 previous one, and that's page 5 of your handout. But
15 here, the data that comes from the research cannot get
16 back through the wall. You're just not allowed to do
17 it.

18 DR. EMANUEL: Cannot pass through the wall.

19 DR. SOBEL: Cannot pass through the wall.

20 Now, what are some possible scenarios? There
21 might be additional requests. The idea here is to
22 provide a mechanism within this paradigm by which

1 researchers could obtain updated clinical information
2 and even additional sample, either more than the
3 original number of samples, or they ran out of some
4 sample and they need more to finish their study on the
5 same clinical donor.

6 The point is, the mechanism should minimize
7 the chance of research data, again, becoming available
8 to the guardian and requests should be through some
9 third party which, in this scenario, is a computerized,
10 encrypted file. But it could be any one of a number of
11 mechanisms.

12 So we drew this actually as a way around the
13 wall, but still not in a way that the guardian could
14 ever get the data. That could be through a stylized
15 form because you don't want to have a scenario in which
16 the researcher calls up the guardian and says, you
17 know, Sample Number 14 is really interesting because it
18 has A, B, and C, and then already now you have a break
19 through the wall. So there would have to be some
20 encryption. The guardian could look at requests and
21 could then take this route to provide more information
22 back to the researchers, but we'd never still see the

1 data.

2 Again, this is if you're going to have
3 exemption from IRB review. If you're going to have IRB
4 review in the proposal, then this going back through
5 the wall could be part of your proposal and either you
6 could get consent or you could ask the IRB for waiver
7 of consent. We're not talking about those situations.
8 We're only talking about situations in which we can
9 liberalize the use of anonymous in the definition of --

10 DR. EMANUEL: I think actually that's not a
11 good -- I'm going to object here because I don't think
12 the rationale should be, how can we do it without IRB
13 approval. That's not a good --

14 DR. SOBEL: No.

15 DR. EMANUEL: The rationale here is, how can
16 you maintain the use of the tissue in an anonymous
17 manner. That happens to track with because of 45 CFR
18 46 with not IRB approval, but it seems to me the
19 rationale has to be, can we keep this stuff --

20 DR. SOBEL: Exactly.

21 DR. EMANUEL: -- sufficiently separated so
22 that the two sides of the brain aren't talking to each

1 other.

2 DR. SOBEL: Exactly. Exactly. The point is
3 not avoid the rule.

4 DR. EMANUEL: Right.

5 DR. SOBEL: The point is, set up a situation
6 in which there is reasonable protection so that one can
7 facilitate the research without having to go through
8 many approval steps.

9 DR. EMANUEL: Right.

10 DR. SOBEL: The point being to facilitate the
11 research, not to get around the rule. The end result
12 would be --

13 DR. EMANUEL: I don't want to take up any more
14 of your time, but, I mean, actually, as you present it
15 it makes me more worried about this guardian rather
16 than less worried. It was my main objection to the
17 Merz article, was this idea of the trustee, because
18 you've still got a person there who's got the file and
19 has the link between the two and the consciousness of
20 the two. If you could have that link separate so that
21 that person actually doesn't know the code at the other
22 end, that makes me feel much better.

1 DR. GREIDER: Which is Bernie's article.

2 DR. EMANUEL: Right. Right. Well, exactly.

3 And part of what I had presented last week of having an
4 encryption system where the guardian actually doesn't
5 know the other end, which is the way -- I mean, on the
6 Internet you have two --

7 DR. SOBEL: You can incorporate that within
8 this scheme as well because the key could be encrypted.

9 DR. EMANUEL: Right.

10 DR. SOBEL: And all they have to do is access
11 the encryption to say, researcher X wants more samples
12 from 1 to 10, and updated clinical information for what
13 we sent, and they push the button and then the key is
14 mysteriously --

15 DR. EMANUEL: Right.

16 DR. SOBEL: I think that is within the context
17 of this.

18 DR. GREIDER: The guardian is two people.
19 Essentially, there's two separate guardians, whether
20 they're physically together or one's a computer and
21 one's a person.

22 DR. SOBEL: Exactly. Right. Okay.

1 But, again, this is all still within a
2 scenario in which the guardian is not intrinsically
3 involved in the research except in terms of the
4 selection of the sample.

5 DR. EMANUEL: Correct.

6 DR. SOBEL: So far it's actually relatively
7 easy. Now things start getting worse.

8 CHAIRMAN MURRAY: I'll just make a point while
9 Mark is putting up his next one. In a way, if we want
10 the actual results in terms of the ability to link the
11 individual who is the source of the sample to the
12 research information, the research outcome, to have a
13 minimum of transparency you want to protect people as
14 much as possible.

15 But I am concerned, as we get into these
16 fairly elaborate schemes, how to protect data, that it
17 goes against what we want. We want a system that we
18 can explain to the public and to researchers as
19 transparently as possible. Just bear that in mind.

20 We don't want to be able to say, you're
21 protected because of a four-way computer network
22 algorithm, we want to be able to say, look, there are

1 procedures in place that are reliable, trustworthy, and
2 we can explain it in a relatively simple manner.
3 That's a goal I have. Whether it's achievable, I don't
4 know.

5 DR. COX: In a word, I understand why you're
6 doing it because it's operationally easy, but to me it
7 flies against the face of where everything's going as
8 having walls between researchers and the people that
9 are delivering medical care. To me, that's a non-
10 starter because if anything is going to happen, it is
11 that the people who are doing the research are getting
12 closer to the people, not further from the people that
13 are delivering medical care.

14 So, I mean, I'm very willing to consider this
15 because I think it's a really helpful starting place in
16 terms of a concrete proposal, but that's one aspect of
17 it that really is troubling to me. Also, from the
18 public hearings, people are saying, don't put a wall to
19 me if there's useful information.

20 DR. SOBEL: Well, I heard that this morning as
21 well as you did. But we started from a different
22 starting point. I also want to point out, this could

1 also be used for samples that have been sitting around
2 for 5, 10, 15 years, but still have some identifier on
3 them and they could still be used now.

4 It might be quite impracticable to use the
5 OPRR nomenclature in terms of getting waivers of
6 consent for research to actually get consent from those
7 patients, so the idea here is to open up some doors to
8 make more tissue available and still protect people's
9 privacy.

10 DR. COX: You're not saying it's easy --

11 DR. SOBEL: It's not limited to that, it's
12 just one possible way of maximizing the use of tissue.

13 CHAIRMAN MURRAY: Can I just, procedurally
14 here. A highly-placed source has informed me that we
15 have until 11:40, because the other subcommittee is
16 running a bit behind. So we have about 12 minutes.

17 DR. COX: Can I just respond to David. It
18 seems to me that we have to be careful in using this
19 metaphor of researchers and clinicians getting closer.
20 They are getting closer, but we still may want to put
21 up some barriers in the transmission of some kinds of
22 information for reasons of other consideration. It

1 seems to me that --

2 DR. EMANUEL: We might. We might.

3 DR. COX: Well, I think if we're going to have
4 tissue use in an anonymous manner, that, by definition,
5 creates a barrier if it's going to be anonymous. I
6 mean, it has to, otherwise the word anonymous is just a
7 lie.

8 DR. EMANUEL: But I didn't think we were using
9 that word anymore.

10 DR. COX: I think I used the correct
11 circumlocution, which is that we were going to do the
12 research in an anonymous manner, actually.

13 CHAIRMAN MURRAY: Sorry, Mark.

14 DR. SOBEL: So if we now think about how we
15 could maximize the system, if you want it at all, you
16 could actually think about having a research data
17 repository which is, in a sense, anonymous and in which
18 you could have the opportunity to store and retrieve
19 research data on samples and records that carry the
20 same research code.

21 This would be possible if the guardian
22 provides the same research code to a clinical sample

1 given to multiple researchers at different times. Or
2 you could link different research codes to the same
3 clinical sample by having multiple keys and figuring
4 those out. That would look like this.

5 So you could have cross-talk between
6 researchers using anonymous samples without the
7 guardian knowing what those are, so they're still
8 anonymous and you still can't get back up here.

9 In this case, the guardian sends the sample to
10 Researcher Number 1 and guardian sends either an
11 overlapping or an identical set of samples to a second
12 or more researcher. They can share information through
13 some research data bank without every knowing what the
14 clinical code is. So this is a way of maximizing
15 information and use of anonymized samples.

16 DR. EMANUEL: Let me get this right. I'm at
17 Hopkins, I set up a data base with all of my colon
18 cancer samples, I put them into the computer, they're
19 all encrypted, and anyone who wants to do research,
20 say, logs on and can do the research and can find out
21 what other people are doing with Sample 762. No one
22 has any idea that 762 is linked to me.

1 DR. SOBEL: Yes.

2 DR. EMANUEL: Okay.

3 DR. SOBEL: Okay. So this would make more
4 samples available to more people, and it would also
5 mean that people would not have to do all things
6 because they could benefit from what's already been
7 done on the tissue. Or they could take a subset of
8 that tissue once they knew what you had done at
9 Hopkins. Okay. Then we're going to take the 30 that
10 were this and work on it and be more focused.

11 DR. EMANUEL: Right.

12 DR. SOBEL: So there are many potential
13 research advantages to having some sort of cross-talk
14 here, but still not get back to the other side of the
15 wall.

16 DR. EMANUEL: So that I carry the BRCA-I gene
17 that is in this research data base, but not in the
18 clinical data base, which we have no idea where that
19 sample is.

20 DR. SOBEL: Exactly.

21 DR. EMANUEL: Okay.

22 DR. SOBEL: Now, the most problematic point is

1 the last one that I'd like to bring up, which is one
2 that we really don't have great solutions for. That
3 is, if the guardian is actually the researcher. So the
4 guardian is not just selecting a sample and providing
5 it to other researchers, but is intricately enough
6 involved in the research that they are actually doing
7 the analysis.

8 In the case of the pathologist, that could
9 even be morphologic analysis or it could also be that
10 the pathologist also does some genetic studies, or some
11 transmissible studies, or any research study in which
12 there might be some stigmatization or risk.

13 So here you're dealing with the fact that we
14 started with certain assumptions again. Our assumption
15 was that the guardian who's going to perform the
16 research would still select the tissue samples and
17 collect the original data from the medical record. You
18 may find that you don't want to deal with that, but
19 that was our assumption number one.

20 If that's the case, then point number two is
21 that an IRB should be approving a policy for the
22 selection of an appropriate second guardian, second

1 trustee--we called it steward--who could provide the
2 research code and keep the key so that now the samples
3 get anonymized and the guardian is, for all intents and
4 purposes, the researcher on the other side of the wall,
5 and I'll show you the flow sheet in a second.

6 Now, in order for that to be the case then we
7 would want an IRB a departmental policy for
8 confidentiality and security and we would also have the
9 proviso that the data from the guardian's research team
10 cannot be linked back to the medical record and that
11 only the steward or the second guardian or trustee
12 could provide updates on those samples.

13 So this really comes down to a matter of trust
14 and faith. I can tell you that, at least in the
15 pathology community, since many of these so-called
16 guardian/researchers are pathologists, a lot of
17 pathologists will be very offended by the very need to
18 have the steward because they feel that they have
19 signed the Hippocratic Oath, it is in their normal
20 manner of professional behavior to keep confidentiality
21 and privacy and, therefore, many people in the
22 community will feel that this third party now that

1 we've put in this diagram is not necessary because they
2 are following standard medical ethics of
3 confidentiality and privacy.

4 But if you think of the potential risks of
5 getting information back to the medical record and how
6 soft that line can be, in this scenario we have
7 included a second guardian who keeps the code and the
8 guardian or other researchers can still cross-talk with
9 the research data bank, as we showed before, but any
10 more requests would have to go to the steward and would
11 short-circuit the guardian so that the guardian should
12 not be able to link research data to the clinical
13 information.

14 Whether this is acceptable at all without
15 going through the traditional mechanisms that we now
16 have in place to consider this identifiable anyway
17 because of the view of the tissue and the expertise of
18 the guardian to begin with is an issue that you'll have
19 to think about. If you want to consider this option,
20 this is one scenario to accomplish it.

21 DR. MIIKE: I was just going to say, why not
22 just deal with this as, we're linked anyway, right?

1 Rather than setting up this elaborate system when it's
2 not -- I mean, if I were the guardian and I'm doing
3 research, depending on the clinical information -- I
4 can always tell. I can always go back in my data base
5 and find out who that is.

6 DR. SOBEL: Well, again, this would be a
7 situation of, in most cases, you still have the
8 scenario that is the current regulations, which is that
9 you would get consent or you would apply to an IRB for
10 a waiver of consent because of the impracticability of
11 getting such consent on extant tissues.

12 MR. HOLTZMAN: In what you're constructed
13 here, does the guardian, and I'll move to this side of
14 the world, do they or do they not possess knowledge
15 that allows them to identify the subject?

16 DR. SOBEL: Well, I think that depends on --
17 in this scenario they shouldn't have enough information
18 to be able to do that. So if you think that looking at
19 the tissue block and having the surgical pathology
20 number next to it and, at a later time, gleaning the
21 clinical record and putting that together is going to,
22 later when they do their biochemical test at the lab

1 bench, that they're going to remember that that tissue
2 block that looked like that with that clinical
3 information, that that's that case, then this scenario
4 doesn't work and you can't identify it now.

5 MR. HOLTZMAN: You see, I think this formally
6 collapses with all of these distinctions. That wall
7 either does or does not define what's decided on based
8 on whether you can identify.

9 DR. SOBEL: That's correct.

10 MR. HOLTZMAN: Okay.

11 DR. SOBEL: If the guardian can still identify
12 the sample on this side of the wall --

13 MR. HOLTZMAN: Then it stays on that side of
14 the wall.

15 (Laughter)

16 DR. SOBEL: See, we're talking about
17 situations where that's not necessarily the case. For
18 example, DNA is extracted from these samples and there
19 are numbered tubes. The guardian is doing the DNA
20 test, but they don't have the slide with them and they
21 can't link it because they don't have the key.

22 DR. PITLICK: Mark, give the example of trying

1 to do antibodies on a slide.

2 DR. SOBEL: I mean, 90 percent of work that's
3 done, at least in our department, is someone wants to
4 check a potential new antibody for proteinase that has
5 nothing to do with genetics at all, and they simply
6 pull 25 cases of breast cancer or prostate cancer and
7 then they move over to this side of the wall and they
8 apply the antibody.

9 MR. HOLTZMAN: Mark, all I'm saying is that
10 the salient point is not your title, where you live,
11 the salient point is your histomological status.
12 That's all.

13 DR. SOBEL: Right. So if you have extracted
14 DNA from these samples and they are on this side and
15 they have an alpha-numeric code, you can identify that
16 sample and I think you can be on that side of the wall.
17 If you are working with the actual block of tissue
18 directly with the number next to it and that number is
19 still there, then you can't be on that side of the
20 block.

21 DR. COX: Mark, I'd like to make this point,
22 hopefully not at your expense, but to use a concrete

1 example of what I mean about the whole picture. All
2 right. When do people do research in the first place,
3 if not to get it back to the medical record ultimately?

4 DR. EMANUEL: For the money.

5 DR. COX: Yeah, for the money. That's right.
6 That's what it is.

7 (Laughter)

8 DR. COX: So if we come up with a structure
9 that has the -- it completely fixes the problem of
10 confidentiality but it doesn't address the issue of how
11 research information gets back to people's medical
12 records.

13 DR. SOBEL: But I would agree with what you
14 just said. People do research to get back to the -- it
15 depends on the kind of research you're doing. If
16 you're not doing specific tests for the direct clinical
17 care of the patient, you don't want it going back to
18 the medical record. You do the research to increase
19 your understanding of the biological process and you
20 publish that and it's out in the public domain. I
21 would say that 9 out of 10 times you don't want it
22 there. There's no need for it to be there.

1 DR. COX: But that is not an effective way of
2 getting information back to the medical record. It has
3 not proven to be effective and, in fact, at the Task
4 Force on Genetic Testing the main focus was on how you
5 can have information of utility getting back into the
6 medical record because there's no process in this
7 country for doing it.

8 So, to me, this is a critical issue with
9 respect to the tissue samples and it's not sufficient.
10 I mean, this is something I'm --

11 DR. SOBEL: Maybe we're confused about the
12 terms that we're using, because to me the medical
13 record -- if you're talking about me, that's my
14 hospital chart.

15 DR. COX: Yes.

16 DR. SOBEL: Okay. Now, if you do a certified
17 test for, let's say, BRCA-I on my blood because I'm a
18 suspected family and I gave you consent, then I do or
19 do not want that in my medical record, but that's
20 prospective, I've given my consent.

21 DR. COX: Yes.

22 DR. SOBEL: If we're just talking right now

1 that most of the recommendations of that BRCA-I testing
2 should be on a research protocol and not go back to the
3 medical record for a variety of very obvious potential
4 harms that people are not protected from in our current
5 society, then you don't want that back in the medical
6 record and you either do the study the way the Human
7 Genome Projected adjusted the Jewish Ashkenazi family
8 study in this area, which was anonymous collection with
9 clear understanding of the participants that they were
10 not going to individually benefit from it, or you
11 anonymize the tissue through one of the previous
12 paradigms that I've showed you and the information goes
13 out into the public domain for the appropriate groups
14 to determine when it is clinically useful.

15 DR. EMANUEL: David, let's take the clinical
16 samples, not the research samples. One of the problems
17 of the research done here in an anonymous manner is
18 people were collected in a cohort for --

19 DR. SOBEL: Yes, that's right. Okay.

20 DR. EMANUEL: So let's go to my favorite
21 example, the angiogenesis factor and Judith Holzman's
22 paper. So they go to the Brigham and they collect out

1 108 samples from 5 to 10 years prior to when they're
2 doing the study. So here's the question: do you want
3 to have a situation where they can then put that
4 information into the clinical record or go back and
5 contact the lady?

6 DR. COX: No, no, no, no. Okay. Let's use
7 the situation of the BRCA-I. Just going out on our --
8 I'm just trying to be an advocate for some of these
9 people that we heard. They're saying, listen, I want
10 my stuff linked, because if you find something useful
11 for me I want it to get back to the medical record. So
12 they decide. We find out that there actually is a
13 genetic test for which it predicts medical options. So
14 we need to get back to those people.

15 CHAIRMAN MURRAY: We have a problem, in that
16 we have to go to the joint meeting. We can come back
17 to this.

18 DR. SOBEL: I mean, I think that's the other
19 argument that we just discussed earlier this morning,
20 is some people question whether it's ever ethically
21 sound to anonymize a sample and use it in an anonymous
22 way, and we have to decide what that's -- then within

1 this -- you have to decide --

2 CHAIRMAN MURRAY: Thank you.

3 DR. PITLICK: I just wanted to make an
4 alternate comment. That is, what is the definition of
5 research? Part of what we're trying to cope with is
6 the afternoon crowds sitting around in the lab and
7 saying, okay, now what should we do next, and doing
8 something quickly that is not an NIH grant application,
9 but is some quick study to look at, how does X relate
10 to Y.

11 That's research as well, and that's the kind
12 of research that is very problematic of educating
13 people that they're doing research, that you need some
14 kind of recognition of that fact. So there's research
15 and there's research, and I think we need to deal with
16 both situations. If it's very preliminary testing, you
17 don't want that to go back in the --

18 MR. HOLTZMAN: I'm not talking about that.

19 DR. PITLICK: So you have to figure out, what
20 defines research --

21 MR. HOLTZMAN: I'm not talking about that.

22 DR. SOBEL: I realize that. But we're trying

1 to work out a scenario. We recognize that that's going
2 on, so you have to deal with it.

3 CHAIRMAN MURRAY: Okay. I think there's a
4 will on the commission that you return after the joint
5 session.

6 DR. SOBEL: Fair enough.

7 CHAIRMAN MURRAY: Thank you.

8 DR. SOBEL: Thank you.

9 (Whereupon, at 11:45 a.m. the meeting was
10 recessed to go into Joint Session of the Genetics
11 Subcommittee and Human Subjects Committee.)

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AFTER RECESS

10 (1:40 p.m.)

11 DISCUSSION OF RECOMMENDATIONS/POLICIES ON THE

12 TISSUE SAMPLES ISSUE

13 CHAIRMAN MURRAY: We're reconvening now the
14 meeting of the Genetics Subcommittee. We still have
15 with us Mark Sobel and Fran Pitlick to help us think
16 through some of the issues, practical issues, involving
17 the use of pathological samples.

18 Mark and Fran, I want to propose something to
19 you before we get back into the conversation. That is,
20 that you've given us an answer to a question that is a
21 very important question for us. It presupposes an
22 answer to a prior question, the one I think that David

1 Cox has been raising.

2 What if scientific information uncovered
3 might, in fact, have clinical relevance and be the sort
4 of information that we think it appropriate, and that
5 patients would think it appropriate, to be fed back to
6 them.

7 The analysis we've gotten from you presupposes
8 the answer to that question is, there isn't such
9 information. That will be many cases, but it won't be
10 all cases. What do you say to that?

11 DR. SOBEL: I think that there very well might
12 be situations. In the best situation, you would
13 anticipate the potential use of some research
14 information that might wind up going back. But, in
15 that situation, you wouldn't use the paradigm that
16 we're talking about here.

17 At least in our assumptions, using this we
18 said that this would be used under a blanket consent,
19 general consent, whichever way that worked. But I
20 would say that, if you had a situation where you
21 anticipated this information and would back to the
22 clinician and/or the individual donor, that that can't

1 be used in that scenario, you would have to use an
2 informed consent procedure with specific IRB approval
3 for your policy.

4 And if you thought it would be particularly
5 impracticable because you were working with archive
6 samples and you wanted to invoke the impracticability
7 waiver issue, then you would have to make a proposal to
8 the IRB and convince them that you could waive informed
9 consent.

10 So you would have a set of prescribed policies
11 and scenarios. If such and such happens, this is how
12 we'll handle such potentially relevant clinical
13 information. We'll send it back to the IRB for
14 decision, we'll go back to the primary physician.
15 There should be a well laid out framework for dealing
16 with such scenarios.

17 So what we proposed here was not those
18 situations, but only situations where you do not
19 anticipate.

20 CHAIRMAN MURRAY: So did I characterize
21 correctly that you have, in fact--given the answer to
22 the first question--the answer is, no, we don't think

1 it will be this kind of clinical information,
2 generally. Then here's what you're proposing.

3 DR. SOBEL: There are a couple of examples
4 that this commission has talked about in situations
5 where research has gotten into sticky situations and
6 gotten into a moral dilemma because they basically were
7 using the samples as if they knew that somebody could
8 break the code and they found something that they
9 thought might be clinically relevant, such as HIV
10 status or something, and they came up with this moral
11 question, now what do I do, what is my obligation to
12 the individual? But I didn't get consent. That's been
13 handled in various ways. I'm not so sure ever very
14 well.

15 So I think the more we anticipate these sorts
16 of problems, the recommendation should be that there
17 should be, just when you write your grant, if protocol
18 A doesn't work, I have two other ways of answering my
19 question.

20 I think that people should be anticipating
21 these questions. If there is a legitimate chance of
22 that happening, it can't go through this or it has to

1 go through a specific protocol, IRB approval, informed
2 consent.

3 DR. PITLICK: I would like to add, I talked
4 with Roger Almott who was here earlier, who is the
5 project officer for the Cooperative Human Tissue
6 Network. I said, how great is the pressure to go back,
7 to get information back to the physician? And he
8 couldn't recall a case.

9 It turns out I knew of a case which was a
10 tested HIV status, and when I mentioned it he recalled
11 that, but essentially there's a mechanism at NCI that's
12 been working this way and they've had one incident that
13 they recall when there was a perceived urgent need to
14 go back.

15 They finally decided, well, that wasn't a
16 CLEA-accepted test. They were not doing HIV studies,
17 they were doing HIV to protect their assays, to protect
18 their own laboratory workers. But it wasn't a clinical
19 assay. So they've only had one instance in the
20 Cooperative Human Tissue Network. It would be fairly
21 rare if we started out with this situation.

22 DR. COX: So the person wasn't told because it

1 wasn't a cleared test?

2 DR. PITLICK: That's right. And the decision
3 was, it turns out the person was -- there was a lot of
4 discussion about it and the decision was at the
5 Cooperative Human Tissue Network that the information
6 will not go back, period, for anything.

7 DR. SOBEL: Now, in this scenario that we've
8 proposed, because we have the wall, somebody does have
9 the code. So there should be a possibility. I would
10 give you an example of a misdiagnosis, for example,
11 that the guardian sends out 50 cases to the researchers
12 of supposed dysplasia of a particular tissue, and the
13 researchers realize as they're doing it that one of the
14 cases is, in fact, not dysplasia, but a frank cancer
15 and it's medical malpractice, number one, and number
16 two, there's a patient out there with cancer who
17 doesn't know it who could potentially be treated.

18 How do you deal with a situation like that?

19 Well, there, I think, you could go to the IRB, for
20 example, in my scenario, at least the way I thought it
21 through, and say, I have this potential medical
22 situation where there's a potential therapy for a

1 disease that has been missed and we want a procedure
2 approved to get contact back.

3 Now, how exactly that could be done, I would
4 leave up to the IRB, which might be too much of a
5 burden, but at least they would be an impartial third
6 party. So I could see certain scenarios like that.

7 Another scenario could be, I decide that I'm
8 not going to let my laboratory use tissue unless we do
9 test for HIV and hepatitis no matter what and I send it
10 to a CLEA certified laboratory and I get --

11 DR. MIIKE: Your first scenario, what you
12 would try to change is if you're not sure whether you
13 could get back to the patient on time or --

14 DR. SOBEL: Well, in my scenario you could get
15 back because someone is holding the code.

16 DR. MIIKE: No, no. What I'm saying is that
17 the patient might have already died, versus intervening
18 on time.

19 DR. SOBEL: But I couldn't know that because,
20 to me, the sample is anonymous. So I would have to say
21 this is a misdiagnosis, and I would have to get that
22 information back. But in order to avoid the guardian

1 learning too much extraneous information that you don't
2 want to do, you really need a third party, which to me
3 would be an IRB.

4 I think it would be a very rare situation.
5 This should not be something that happens on any
6 routine basis, but it might potentially happen and you
7 might want to consider having some sort of loopholes in
8 there that adequately protect privacy, but still can
9 protect the person. If it then turns out that they
10 break the code and the person has died, then that's
11 another issue because you still have a potential
12 medical/legal case.

13 DR. EMANUEL: I think it's very important for
14 us to appreciate these cases. But, as I think we said
15 last time, appreciate the fact that --

16 DR. SOBEL: These are exceptions.

17 DR. EMANUEL: Well, not so much exceptions,
18 but everyone is going to have a different judgment as
19 to whether it's a good thing to go back and trace and
20 release the information or -- and we've been alerted of
21 cases, and there have been cases in the literature,
22 where people have done that and it's been a mistake.

1 Someone didn't want that piece of information. They
2 thought it was important, and it turned out to be
3 something someone doesn't want. I think this is going
4 to be a serious, serious problem anytime we allow this
5 exception.

6 For one thing, allowing the exception -- and
7 I'm not arguing against it or not, but we should be
8 aware, the moment that barrier really isn't a fire wall
9 but sometimes you can overcome it under these
10 conditions, the more we allow that as a possibility the
11 more we increase the chance for problems both ways.

12 I mean, one of the great advantages of it
13 really being a fire wall, you can't go back, we've
14 thrown away the key, is the fact that it goes both
15 ways. You don't have an abuse and you don't have a
16 problem where someone gets a piece of information and
17 they didn't want it.

18 DR. COX: Zeke, I completely agree with you.
19 But what I'd like to do, it's not these rare
20 exceptions. I quite agree, right now that's the way it
21 is. But I'd like to just put forth a scenario that is
22 not very crazy, I believe.

1 It's epidemiologic studies done in a big
2 metropolitan area with the patients being from a
3 conglomerate of different HMOs and those were the exact
4 individuals that re being used for the research. And
5 you're blinded, so you've got your fire wall up.

6 Now, Carol, you're right, it's published in a
7 peer review journal, it shows clinical specificity and
8 sensitivity with certain measures. HMOs are going to
9 want to use that information in those very patients to
10 save money. You're going to tell them they can't use
11 that because the same patients -- you're not talking
12 about one or two patients, you're talking about a big
13 sample of individuals that are going to be able to
14 change their medical care and the health care costs.
15 That's the way things are going right now.

16 DR. EMANUEL: But I don't understand. They're
17 not going to go back. They're going to have to either
18 repeat the lab-derived test -- but that's true for
19 every HMO in the country, David. I don't understand
20 how it's specific.

21 DR. COX: It's specific because it's a
22 different way of practicing medicine because the

1 patients are the subjects. So the research subjects
2 are, in fact, the patients. The information, it's
3 epidemiological studies, Zeke, that are being applied
4 to the population that you're doing the study on.

5 DR. EMANUEL: Okay. So let's take an example.
6 We're going to go to all the managed care organizations
7 in Northern California and we're going to screen them
8 for some colon cancer gene.

9 DR. COX: Exactly.

10 DR. EMANUEL: Okay. That, you know, whatever,
11 triples your risk for colon cancer.

12 DR. COX: Exactly.

13 DR. EMANUEL: Okay. We've got the fire wall
14 up. We've identified that you can do this cheaply and
15 easily.

16 DR. COX: And you identified two percent of
17 those people where you did your study. In fact, the
18 study was done to show sensitivity and specificity. It
19 was done on hundreds of thousands of people, right?

20 DR. EMANUEL: Right.

21 DR. COX: And now you're going to go back and
22 you're going to redo those tests?

1 DR. EMANUEL: Yes. Right.

2 DR. COX: It's the same reason that CDC isn't
3 going to go back and spend \$2 million to do informed
4 consent on the enhanced people, because you already
5 know what that two percent of people is. Somebody
6 knows it, but you have no way of getting that
7 information back right now because there's a fire wall.

8 DR. GREIDER: I'm not sure what your concern
9 is.

10 DR. COX: No. It's just a practical concern,
11 Carol, of whether you're going to then -- so you found
12 this information out. That's the way research is right
13 now, right?

14 DR. GREIDER: Right. Uh-huh.

15 DR. COX: But what I'm saying is, when it's
16 large numbers of patients -- we're not talking about
17 small samples of single things, but costly experiments
18 to go out and do the tests, you're saying we'll just
19 pay for it again. So you know what the result is in
20 the patients, you've done the studies, but you're not
21 going to use the information and you go back and the
22 HMO will just pay for it to find out. They'll just pay

1 for it again.

2 DR. GREIDER: Why would they pay for it again?

3 Why would they even do it again?

4 DR. COX: No, because they don't have the
5 results. They can't get the information. They've had
6 their patients -- actually, they're part of the
7 researchers, right, because they're the people that are
8 donating, the patients.

9 DR. EMANUEL: They're the guardians.

10 DR. COX: They're the guardians. Right. So
11 the information is obtained, you have proven your
12 general scientific point, but the actual data is of
13 medical utility to those specific people.

14 DR. GREIDER: But they wouldn't normally do
15 that anyway. They wouldn't normally go out and screen
16 100,000 people for --

17 DR. COX: That's not the way medicine is done
18 today, but that's exactly what's coming down the pike.

19 MR. HOLTZMAN: The whole notion of the world
20 starts with the idea that we want to have information
21 that's flowing in one direction because it benefits the
22 study. We're anticipating here, to your language, a

1 case in which the goal was not medically relevant
2 information, not medically relevant information --
3 whether it's for one or for 5,000.

4 So now the question is, are we going to permit
5 in any case for it to flow back, and since we can't
6 anticipate every case, if we're going to provide for
7 that formal possibility then it's going to be via some
8 kind of mechanism.

9 DR. COX: Exactly.

10 MR. HOLTZMAN: So in your case, David, I'm
11 just taking that as the sum of many cases.

12 DR. COX: Precisely.

13 MR. HOLTZMAN: Where, if there's going to be a
14 motivation that's going to be -- it's going to have to
15 do with the medical benefit.

16 DR. COX: Absolutely.

17 MR. HOLTZMAN: Okay. You were pointing to a
18 little different point, which is the economics.

19 DR. COX: But the benefit had to be there to
20 begin with. That goes without saying.

21 MR. HOLTZMAN: To begin with, right.

22 DR. COX: Without the benefit, just research

1 information without clinical utility, and I use that
2 point clinical utility being equivalent with medical
3 benefit, something you can actually do with the
4 information.

5 MR. HOLTZMAN: So as I'm thinking here about
6 writing a report and a set of recommendations, Zeke has
7 laid out one argument that says, as soon as you allow
8 for that formal possibility, then you will have
9 destroyed the necessary sense of integrity and trust
10 that goes into it being truly a fire wall, the cost,
11 effectively, would be too high--social cost--and so,
12 therefore, better that those cases not get the medical
13 benefit than we erode the crack in the wall.

14 DR. EMANUEL: No, no, no. It's not that they
15 don't get the medical benefit, that you create a
16 different procedure for getting the medical benefit,
17 right? You publish the data, the HMOs then take on the
18 data or practitioners take on the data and decide if
19 this is a good test to use, and we use it in this kind
20 of defined population. That's what we do all the time.

21 MR. HOLTZMAN: Right. But I think what we are
22 anticipating here is time-sensitive information that

1 comes up.

2 DR. SOBEL: But in your scenario you're
3 talking about a very, very large, hundreds of thousands
4 of people being studied.

5 DR. COX: Or small, either one. I use that to
6 both examples because you could take the arguments,
7 well, this is so rare, it's never going to happen. The
8 other situation, you could say, it's so costly that no
9 one will ever do the test again.

10 DR. SOBEL: But most of the time, see, the
11 medical community does not really generally accept one
12 report, however large the study is. It usually takes a
13 little bit of time to incubate, so you have quite a bit
14 of a time delay by the time you do the research, write
15 the paper, get it published.

16 Then, after the first report, when you have a
17 potentially high suspicion that you're onto something,
18 then you wouldn't do the study this way. Then you
19 would do it with consent and with identifiers.

20 DR. COX: This is the way it's done. Are we
21 going to do the NHANES twice? I don't think so.

22 DR. EMANUEL: No, but NHANES is a different

1 story. That's not the right story. I mean, the right
2 story here is, we're an HMO and for some reason we bank
3 samples on 50,000 of our patients, blood samples on
4 them.

5 Now you want to say -- I mean, I can just tell
6 you, having talked to these managed care executives,
7 we're going to give it to researchers to run tests and
8 we're then going to ask the managed care, go back to
9 those people to tell them we've got a result on a test
10 they didn't even know was being done on them? No way.

11 DR. COX: No, no. They're going to know it's
12 done on them, Zeke.

13 MR. HOLTZMAN: The individuals won't know, is
14 his point.

15 DR. COX: Yes, they will.

16 DR. EMANUEL: Well, wait a second. The fire
17 wall.

18 DR. COX: Under the scenario we're laying out
19 right now.

20 DR. EMANUEL: I think we need to go back to
21 this framework. If it is a previously collected sample
22 with no consent on it, not even general consent, or is

1 it a prospectively collected sample -- I mean, right
2 not if you go into the Harvard Community Health Plan,
3 or any health plan, they don't prospectively consent
4 you to use your samples in a general manner. They
5 don't.

6 Now, maybe they will after our
7 recommendations, although I still doubt it to some
8 degree. So let's distinguish those two. I mean, if
9 it's prospectively done and people have had an
10 opportunity for consent, I mean, one of the
11 possibilities we could raise is, do you want to be
12 informed again.

13 But I think we need to recognize, the moment
14 we have that exception for informed again, we're going
15 to have a lot of situations where people didn't
16 anticipate that their stuff was going to be used in a
17 manner or for a kind of test that they may come back
18 to, especially the moment we get all the -- you know.

19 DR. COX: That's what this whole discussion is
20 about, Zeke. That's exactly what this discussion is
21 about. So do we or don't we basically have the
22 patience involved in the kind of prospective studies?

1 I mean, I think this is right on the target of what
2 we're discussing, but it's a different scenario case
3 than --

4 DR. GREIDER: I think we're in a different
5 box.

6 DR. COX: I am in a different box.

7 DR. GREIDER: I like having Zeke's boxes,
8 because we're jumping all over the mountain with the
9 boxes. We've got to take them one by one.

10 DR. EISEMAN: Can I give an example that might
11 help? I think you're talking about a prospective
12 study, is that correct, where we're going to start this
13 study now, you have 100,000 people and try to come up
14 with a test for this. One good example is something
15 like the Women's Health Initiative.

16 DR. COX: Perfect.

17 DR. EISEMAN: They have women who are -- on
18 one arm of the study it's a hormone replacement, and to
19 be on that arm of the study, one of the tests that you
20 have done up front is an endometrial biopsy, because
21 they don't want to be giving women who have hyperplasia
22 or malignancies any kind of hormones that might

1 exacerbate their condition.

2 DR. COX: Absolutely.

3 DR. EISEMAN: Within that consent, those women
4 are informed that if some abnormality is found with
5 their tissue, which goes through a CLEA-approved
6 pathology department, they will be informed.

7 DR. COX: Exactly. But that's a very
8 different scenario than what we were talking about.

9 DR. EISEMAN: But part of that consent also
10 says, we're going to take some blood from you and that
11 blood will be used for future research purposes. The
12 information from that future research, you will not
13 know. There are ways to --

14 DR. COX: Perfect. So I'm a happy camper
15 because there's two different things.

16 DR. EISEMAN: -- informed consent.

17 DR. COX: But the way that it was presented is
18 that the first part of that that you showed was not
19 even on the radar screen, that is, the part about going
20 back. The only point I'm trying to make --

21 DR. EISEMAN: Because this is collected
22 samples, a different block.

1 DR. SOBEL: We started off with all these
2 samples in which you didn't have informed consent, and
3 the presumption was that the only way to use it was to
4 anonymize it.

5 DR. COX: Fine. So what we've done, is we're
6 really only talking about part of the picture.

7 DR. SOBEL: That's right. Absolutely. That's
8 the starting point.

9 DR. EMANUEL: I think, David, the whole
10 picture, maybe, on this, but I believe Mark and Fran's
11 discussion was related to the previously collected
12 samples where we have not had a process of fully
13 informed consent, and I think it's important for us to
14 go over what we mean by fully informed consent because
15 it may not turn out to be --

16 DR. COX: That wasn't at all clear to me. If
17 that's what you meant, I didn't hear you say it.

18 DR. SOBEL: But it could also be that, after
19 your report comes out and you have your recommendations
20 and people put into place those recommendations, there
21 are going to be all these situations where you do
22 collect samples and tell people, I'm going to use some

1 of your residual tissue in the future for some unknown
2 reason. It's this blanket, unspecified --

3 DR. EMANUEL: General consent.

4 DR. SOBEL: -- general consent.

5 CHAIRMAN MURRAY: And they agree to that.

6 DR. SOBEL: And they agree to that and it's
7 sitting in a bank somewhere. Then someone comes along
8 with a research idea and wants to use it, but it's
9 going to be difficult to get consent specifically for
10 their study.

11 DR. COX: No, no. I'm not asking for that.

12 DR. SOBEL: So then we've broadened the term
13 "anonymous" and used this fire wall approach where, if
14 you have a prospective study and you know it, then
15 there's no reason not to get informed consent up front.

16 MR. HOLTZMAN: But the go-back issue --

17 DR. COX: Yes, but the go-back issue, what
18 about the go-back with prospective studies?

19 MR. HOLTZMAN: See, the go-back issue is going
20 to resurge again. We can deal with it here, but --
21 let's deal with it here and then we'll deal with it
22 again. Okay?

1 DR. EISEMAN: But it's like the way Sheri has
2 it set up in her paper. As soon as a sample is in
3 storage, it's no longer a prospective study. We're now
4 talking about studies on already existing tissue.

5 MR. HOLTZMAN: Right. But we're projecting a
6 different framework. We may come up with the same
7 solution for the future unanticipated study and the
8 serendipitous result with medical implications for
9 both.

10 DR. EMANUEL: I mean, let me just say, the
11 headings here are an attempt to reflect and reconstruct
12 from the transcript the changes on every single heading
13 we made. It's not retrospective, previously collected,
14 where previously refers to the date we would expect
15 full implementation of the recommendations of this
16 report, and we had collapsed here clinical care and
17 samples collected for research into all, that they
18 should be treated all the same way.

19 Then we had, following Steve's recommendation,
20 said that we should not refer to the tissue but to the
21 tissue to be used in an anonymous manner, the way the
22 research is conducted or tissue to be used, and I

1 should have put, an individually identifiable manner
2 here. Okay. So these are essentially the current
3 pathological or current specimens in pathology
4 departments now where consent has not been obtained.

5 DR. COX: And I'm a happy camper on this
6 piece. It's not a problem.

7 DR. EMANUEL: Now, the flip side is, samples
8 to be collected in the future, that is, after we expect
9 implementation on the basis of our report, and there
10 are two types, those collected for clinical care or
11 with no known specific research project or those with
12 the specific research project in mind. Okay.

13 Now, I take it, David, and maybe here is where
14 we've had the confusion, your suggestion or your
15 problem has been that you thought we're not only
16 talking about these kinds of studies --

17 DR. COX: I did, indeed.

18 DR. EMANUEL: I mean, for these studies, and I
19 don't want to speak for everyone else, but I thought we
20 had come to some conclusion that, in fact, we should be
21 talking about a kind of general consent here if they're
22 used in an anonymous manner. If they're used in some

1 identifiable manner, full informed consent.

2 I think it may be useful, as I was sitting
3 here, for us to think through what we mean by general
4 and what we mean by fully informed, in part because, on
5 a preliminary gut reaction, the only thing that might
6 be different between those two consent forms is, what
7 are the objectives, how specific are you on the
8 objectives? Because the risk may look very much the
9 same, the benefits may look very much the same, and the
10 alternatives may look very much the same, you just may
11 not have a very specific idea about the --

12 DR. COX: That's the point I was making,
13 because it gets to be a very slippery slope to know
14 when you want to be general and when you want to be
15 specific, because you can't predict ahead of time, at
16 least I can't, when useful stuff is going to come out
17 of the research and when it's not. Okay.

18 I can't tell you ahead of time when the great,
19 unexpected thing comes by, it's basically going to be
20 the magic cure for AIDS. But I don't want to be
21 hindered based on what I told them ahead of time, if I
22 find that cure, to be able to go back and have it

1 applied. That's the rub.

2 But you do have the advantage, in a
3 prospective way, of talking to people about exactly
4 this point. But I will tell you why I am being a pain
5 about this, is not what I believe, but what I perceive
6 the public believes, which is that it is not -- I mean,
7 it's not the public and the people that we've heard
8 speak aren't sort of very much looking to the well-
9 being of society, but they're really looking to the
10 general well-being of themselves.

11 I mean, they believe if they give this stuff,
12 irrespective of what anybody says, that stuff will come
13 back to them. I mean, that's what people believe.

14 You say, well, you know, this really isn't --
15 I've informed people jillions of times, just as have
16 you. You say, you know, this really isn't going to
17 mean much to you. And they go, yeah, we know, but we
18 know that if you find something you'll let me know. So
19 I really think this is a critical thing.

20 DR. EMANUEL: Take the BRCA-I research done
21 here where they put together the Ashkenazi Jewish
22 population. They were specifically told that they were

1 going to make it anonymous and they can't walk back.

2 They will not get their own results.

3 DR. COX: Yes, I know that.

4 DR. EMANUEL: I take it that this falls into

5 this category right here. We don't know who it is.

6 Give us general consent, we'll talk to the community,

7 we'll get some IRB approval, but we're not walking

8 backwards and telling you, even though some percentage

9 of those women obviously came out positive. We were

10 able to do --

11 DR. COX: But the reason I don't have problems
12 with that, Zeke, in some ways is because of the kind of
13 utility part of it. I mean, that part is just missing.

14 So this is all sort of theoretical.

15 CHAIRMAN MURRAY: There have been two people
16 very patiently waiting to get in, then Bette. It's
17 Fran, Kathi, then Bette.

18 DR. PITLICK: My point that I wanted to make
19 several minutes ago, is to realize that you probably
20 don't look at hundreds of thousands of samples until
21 you've done some preliminary work.

22 Maybe the model that we're presenting is

1 particularly appropriate for initial studies or
2 background information or whatever to develop what your
3 more serious big sample is going to be, if it's going
4 to require, or may eventually.

5 But you probably wouldn't even go into a big,
6 full-blown study like using this model without a little
7 study first that was going to tell you what you wanted
8 to do and how you wanted to do it.

9 DR. HANNA: Yes. I just wanted to briefly
10 make the point that I think in the report we're going
11 to have to be careful to make a distinction between
12 research and clinical, because in the example you're
13 using presumably if you know something has clinical
14 utility, you're not going to embark on a 100,000 person
15 screening project to determine what the gene frequency
16 is, or whatever.

17 In the BRCA-I example, it wasn't until they
18 got good information on who were more likely to be
19 carriers of that gene and what the clinical relevance
20 might be that it then entered the world of clinical
21 utility and then women that could participate in the
22 study could go and be tested versus being screened.

1 DR. COX: They still have good information,
2 Kathi.

3 DR. HANNA: Well, no. Forget about whether it
4 tells them they're going to get breast cancer or not.
5 I mean, that's a big issue. But it then becomes a
6 matter of choice for those individuals, whether they
7 want to be tested and find out what their individual
8 status is.

9 I just think that at some point the research
10 protocol either falls into clinical utility or not, and
11 then the rules -- it goes into medical practice and, as
12 far as I'm concerned, out of the research realm, where
13 the individual is concerned.

14 DR. COX: This is the box that it's in right
15 now. I understand what you're all saying to me. I
16 understand how unhappy anybody is of thinking about it
17 this other way. All I'm asking is just to think about
18 it for a second, that there isn't this sharp line
19 between clinical medicine and research. That's all I'm
20 saying.

21 The kinds of experiments that are going to be
22 happening are going to be ones that blur that line even

1 more. It's not because we're intentionally just making
2 our lives more miserable, but it will blur it because
3 of the kinds of studies that are done. If you can do a
4 small pilot study, this is not an issue.

5 Many of these things, in order to get the
6 results, cannot be done as small pilot studies, they're
7 going to be done as big pilot studies, and they're not
8 going to be done twice. It's a new way of doing
9 science, a different way than we've done in the past.
10 So maybe that's not what this commission needs to worry
11 about, but I just --

12 DR. EMANUEL: The question is, don't we have a
13 box for it, and in what way does the sort of
14 suggestions --

15 DR. COX: And you've been very helpful,
16 because the box is definitely over on this side, which
17 is, in fact, definitely in the prospective, so that's
18 crystal clear. I think, retrospective, we're trucking
19 along. We're in good shape. If this prospective --

20 DR. GREIDER: So we haven't -- groups yet. I
21 mean, right? Retrospective with the groups still gets
22 back into the same area.

1 DR. COX: No, no, no. I didn't say we're
2 done, right, I said we're shaping up.

3 CHAIRMAN MURRAY: I think we're shaping up.
4 We're not in good shape yet. We have a winter's worth
5 of hard exercise ahead of us.

6 DR. COX: But this is a very -- it's outside
7 of tissue samples. It's the issue of a different line
8 between medicine and research. We're going to face it.
9 We're going to face it head on in the human subjects
10 regulations.

11 DR. HANNA: But I just think the research
12 clinical distinction is important for the person who is
13 giving consent because it tells them something about
14 what promises are being made to them, even though in
15 reality it is getting blurred in the laboratory and in
16 patient care.

17 DR. COX: Yes. But can I just say, and I want
18 to really simplify this and then I won't say it
19 anymore, this is -- so I'm talking to the person,
20 saying, listen, we're going to do this research. We
21 don't know anything about this right now.

22 Something of clinical utility may come out of

1 this or not, clinical utility meaning a piece of
2 information that I would use to make a medical decision
3 with respect to you. All right.

4 But if that kind of medical information comes
5 out, then it's an obligation, I'll get back to you and
6 we'll use it. Right now, I practice medicine and we
7 don't do that. We don't do it because it's too hard.

8 People, with a wink and a nod, they say I'll
9 do my best, but that's not a contract, because we don't
10 have a mechanism in this country set up to deliver
11 medicine that way. Well, are we going to? That, to
12 me, is a really important question. If we aren't, then
13 I agree. Then let's not say we're going to do it. But
14 if we are, then let's have our ethics with a mechanism
15 for doing it. That's what is of interest to me.

16 DR. EMANUEL: Yes. But that's beyond our
17 control, David, I think. I mean, that's beyond the
18 purview. What we're here to do is to set up rules, I
19 think, about how you can collect them, what kind of
20 promises you can make, and if you make them, what are
21 you supposed to do?

22 I think it's helpful here because I haven't

1 found, now that we've looked at those boxes, a
2 disagreement. I think, actually, we're in agreement.
3 If you're doing this as part of research and you might
4 anticipate going back to those people with your
5 results, that's in the informed consent.

6 DR. COX: You just said something that's very
7 interesting to me. You know how pragmatic I am, but I
8 don't think we're here to set rules. I think we're
9 here to think about what the big picture bioethical
10 issues are, and then have suggested ways that we can
11 pay attention to those. But the rules, to me, aren't
12 the primary thing.

13 DR. EMANUEL: Well, I think a lot of the
14 communities are looking to us to establish for them,
15 under what circumstances can they use the previously
16 collected samples, under what circumstances do they
17 have to go forward. It's inevitable whether we're
18 going to make the rules, whatever you call that.

19 DR. EMANUEL: Clinic was the same. But just
20 to go back to clinic, what we did, was we had bigger
21 issues.

22 DR. COX: That's right. We don't need any

1 legislation. I mean, we may not need legislation, we
2 may need interpretation.

3 MR. HOLTZMAN: Even with the prospective ones.

4 DR. COX: Right.

5 MR. HOLTZMAN: Where, in step one, you're
6 going to specify, this is the study I'm going to
7 undertake, and you can specifically say with respect to
8 the output of that study, if it has clinical relevance,
9 you either will or will not be informed and you gain
10 your consent on that basis. If you have a further
11 provision with respect to that sample, that it will be
12 used for further unspecified research.

13 Then you're going to have to have the
14 question, with respect to that further unspecified
15 research, do you or do you not want to be informed and
16 contacted, under what kinds of conditions? Either
17 you're going to have that kind of provision or you're
18 not. I think we need to have a set of recommendations
19 with respect to that.

20 DR. EMANUEL: I second that.

21 MS. KRAMER: I'd like to come back to that. I
22 was one of the people who, at the last meeting, was

1 feeling very strongly that there was a responsibility
2 to create a way in which we could go back, that that
3 responsibility flowed from the use of the tissue.

4 I'm really changing my mind, because it's
5 beginning to feel too much like you're trying to make
6 public policy or public policy recommendations based on
7 really an infrequent exception, which I think you
8 really can't do.

9 So if, in fact, it really takes many studies
10 before it comes to a conclusion, then that is almost in
11 the process going to identify a group that is
12 vulnerable, and then that is going to be highly
13 publicized, whether it's the breast cancer mutation,
14 colon, or whatever. A person is likely to know that
15 they're a part of that group. But I think now it comes
16 back to just what you're talking about in either the
17 extant tissues or the prospective tissues.

18 If they've lent their tissues, if they've
19 consented prospectively, if they've consented for their
20 tissues to be used in a particular study, they're going
21 to know, depending on the publicized results, where
22 they fall in that study. But I think that if they want

1 to let their tissues be used for further future
2 unspecified research, that maybe that's where they --

3 MR. HOLTZMAN: That's where you're going to
4 have to deal with it.

5 MS. KRAMER: Right. But the thing is, should
6 we give them the option of saying, yes, I want to be,
7 or no, I don't want to be notified, or should they be
8 required to be notified?

9 DR. EMANUEL: Well, let me give you an example
10 that I thought about because of a friend of mine. His
11 mother has early Alzheimer's. So the question comes
12 up, his sample might be used for perfecting another
13 Alzheimer's test with no better therapy than we have
14 now. Would he want to be informed?

15 MS. KRAMER: No. He already knows he's a part
16 of that group.

17 DR. EMANUEL: All he knows is he's at risk.
18 He doesn't know what his risk is.

19 MS. KRAMER: That's right. That's true. But
20 he knows he's at risk, that's what I'm saying. So he
21 will know, as the results are publicized. He will
22 know. If he doesn't want to know, until there is such

1 a time when something can be done about it, then that's
2 his option.

3 If the time comes when something can be done
4 about it, he already knows he's a part of that group at
5 risk and, therefore, believe me, that will be well
6 publicized. You won't have to be sophisticated to have
7 that in your face. So he will have the option of going
8 and finding out.

9 What I'm concerned about is, suppose now they
10 take the tissue from the people who have been used to
11 establish early Alzheimer's and they say, okay, we're
12 going to take this and test for something else and, in
13 fact, they come up with a positive result. He might
14 not know that.

15 There is no reason why he would be expected to
16 know that, particularly if it turns out that it's just
17 a small percentage. I mean, if the whole group was, I
18 guess then again he would know. So that's where I'm
19 concerned.

20 MR. HOLTZMAN: There's a range of cases and
21 examples, and it's useful to think through them all if
22 we're going to come to something general. So if you

1 focus on a serendipitous finding of a predisposition to
2 a late-onset fatal disease with no possible
3 intervention, if that's your paradigm, you're going to
4 conclude that there's no good done in going back to the
5 individual. Okay?

6 MS. KRAMER: Clear.

7 MR. HOLTZMAN: If you think of something like
8 a serendipitous finding of HIV, or maybe not HIV but
9 something which is readily preventable --

10 DR. COX: A curable cancer.

11 MR. HOLTZMAN: A curable cancer. You're going
12 to be inclined to go back, particularly if what you
13 found is definitively known. I'm using a marker. I'm
14 using an S&P and a known gene. Okay.

15 Then you're going to get the sort of gray one
16 where it's, well, do I really know something? For
17 example, working with people in Zeke's institute, we
18 have discovered a gene which it looks like when it's
19 down-regulated indicates invasiveness of melanoma, and
20 early intervention is critical.

21 We've looked at a bunch of samples from Zeke's
22 institute, unlabeled, et cetera, et cetera. The

1 pathologist could tie it and someone who they're
2 calling as probably non-invasive based on the
3 phenomenological measures, we see that gene off. Okay.
4 We've only looked at 45 cases so far. It's 45 out of
5 45, up until this case. So it's a research result.

6 Should that physician do anything about it? A
7 common sense reaction if I was in that reaction? I'd
8 probably want to call that patient back in, not to say
9 you have something, but I'd probably want to go look
10 again. Okay. So let's not focus in on any one of
11 those cases, but recognize the range of cases. I think
12 then when you consider that range you end up coming
13 back to Zeke's proposition.

14 Is the inviolability of that wall back, the
15 precondition of having a wall that people can be good
16 about, or is the potential for cases in which
17 individuals can benefit, the weight of that,
18 sufficiently great that we should provide a mechanism
19 by which it can be breached, and if so, what is the
20 structure of that mechanism?

21 DR. GREIDER: And not only that, we can't base
22 that decision on the way things are currently done and

1 the frequency with which it currently comes up. Taking
2 what David said, you have to anticipate, will the
3 frequency of these kinds of things increase in the
4 future, are we likely to stay the same. I think I
5 agree with you, that they are more likely to increase
6 than not.

7 MR. HOLTZMAN: Well, if you take genetics,
8 when you move from anonymous triplet repeats as your
9 marker, you're moving to common variants and the S&Ps
10 representing common variants, you know what's going --

11 MS. KRAMER: So is it too much of a
12 simplification to say, okay, is the potential for
13 violation of impermeability greater than the need or
14 the anticipated or possible future need to go back. So
15 we're not going to be able to have both.

16 DR. GREIDER: If you set it up appropriately I
17 think that you can.

18 MS. KRAMER: Okay.

19 DR. GREIDER: Because we were talking about
20 double-blind kinds of studies where you can go back and
21 still protect individuals.

22 MS. KRAMER: How can we take this and start

1 doing it then?

2 MR. HOLTZMAN: I'm not sure -- explain what
3 you mean. The double blind says -- but Zeke's point
4 is, you've reached back, even though for all of the
5 protections where the people on this side can't go
6 back, you're allowing a possibility to allow the people
7 who can go back to go back. It's in the nature of the
8 case, if you can come one way you always can go the
9 other way. So the question on the table is whether
10 we're going to allow those who can, to.

11 DR. GREIDER: But you don't make it a simple
12 thing so it's not a fortuitous, accidental going back.

13 MR. HOLTZMAN: No, absolutely. Right.

14 DR. GREIDER: But if, under the circumstances
15 of IRB approval of going back --

16 MR. HOLTZMAN: Now you're articulating a
17 mechanism.

18 DR. GREIDER: Right. With the appropriate
19 mechanism, that there is the appropriate coding so you
20 can do it, but it's not going to happen in an
21 accidental way. One problem of setting things up so
22 that there's a wall and it only ever goes in one

1 direction is very easy to protect. But if you want to
2 have things sometimes go back, then you want to be
3 really sure that the mechanism on the other side is
4 very robust. So then you want to argue for an
5 extremely robust protection mechanism, if you're going
6 to allow it, to go back under some circumstances, of
7 review and approval, et cetera.

8 MR. HOLTZMAN: So now if you would assume that
9 robustness of the confidentiality in your procedure,
10 the next thing you have to focus on is who will make
11 the decision to allow one to go back and what will be
12 the relevant criteria or parameters that will be in
13 play?

14 DR. GREIDER: The same IRB that sets up the
15 path on a protocol.

16 DR. COX: But I'll tell you, the Genetics
17 Testing Task Force went through this, and I think that
18 was not anything I'd like to use as an example of how
19 to do things, but the real bottom line that came out of
20 that was, how do you determine -- because the key
21 factor should be the clinical utility, how you
22 determine clinical utility when it's scientifically

1 valid and has clinical utility.

2 Mechanisms for doing that in this country -- I
3 mean, it's very, very difficult in -- to know. In
4 fact, how stuff gets used right now and how that gets
5 determined is not very pretty.

6 DR. GREIDER: That's why I go to the IRB.

7 DR. EMANUEL: But we should be clear.

8 DR. GREIDER: That's why you should go through
9 some sort of a --

10 DR. EMANUEL: But if you keep going through
11 the IRB, then we're piggy-backing or being parasitic on
12 a process which, first, was not set up to do this at
13 all, and second of all, we are beginning to tax a
14 system that has absolutely no funding and it's going to
15 collapse under more and more demands.

16 MS. ALPERT: An instructive scenario that is
17 currently going on. The Mayo Clinic apparently, from
18 what I understand, has a mechanism to do exactly what
19 you're talking about. They have a separate body within
20 the clinic to look at clinically relevant findings,
21 incidental findings, from genetic research and they go
22 through that board to see whether or not they should

1 inform the patients or the research subjects.

2 DR. COX: Exactly. And whether they have
3 utility. So I must say, maybe you would view this as a
4 cop-out, but I don't have any problem in saying that
5 the measure has to be clinical utility and there has to
6 be some mechanism which we're not setting up right here
7 to say there's clinical utility.

8 But, once there is, then our mechanisms are
9 going back and kick in. But it's what Steve is saying,
10 to me at least, that we have a process for going back.
11 Zeke, I would like nothing better than to have that
12 wall not breached. It just doesn't pass the sniff test
13 to me in terms of where people are out there.

14 DR. HANNA: When you talk about clinical
15 utility, do you mean specific to the disease for which
16 that individual first came in, or anything? So they
17 came in for breast cancer, but you found out about
18 Alzheimer's.

19 MS. KRAMER: And there's clinical utility in
20 what you found out about it.

21 DR. HANNA: Right.

22 MS. KRAMER: Something can be done about it.

1 DR. HANNA: The only reason I'm raising that,
2 is that can be, I think for some individuals, a much
3 more troubling scenario. I just know this from when I
4 worked in clinical genetics. They came in for advance
5 maternal aging and you checked their family history,
6 and you find out there were all kinds of other things
7 they should be more worried about and it was very
8 upsetting to people.

9 DR. COX: I agree, Kathi. But what I'll also
10 tell you is the way you take care of that is the same
11 way you deal with non-paternity, which is you bring it
12 up when you first see these people --

13 DR. HANNA: As a possibility.

14 DR. COX: -- about the possibility. Then some
15 people are going to feel very strongly, some people
16 aren't. I don't think you can have a lot of different
17 lists, but it's what you tell people up front. I do
18 have problems -- I don't know.

19 I have much more problems with these things
20 that are found with additional studies that were done
21 on their samples that they didn't know about. I mean,
22 that is getting into a very gray area. It's not such a

1 gray area, though, of studies that they're set up on to
2 get this stuff back to them.

3 DR. EMANUEL: Yes. But, David, that is, I
4 thought, the scenario we're really worried about.
5 We've taken your sample for X. You have participated
6 in the Physician's Health Study, or whatever, and we've
7 taken your samples for X, but suddenly, five years
8 later, we've discovered a new test we want to do. Say
9 someone comes up with what they think is a very good
10 predictive test for Alzheimer's and they want to do it.

11 DR. COX: Yes. But I'll tell you, Zeke, the
12 reason why in the past I wouldn't have had trouble with
13 that is if work was being done on an anonymous fashion
14 and you didn't have any easy way of getting back to
15 people. But if we have people all linked up, then we
16 do have a way of getting back to them.

17 So then I have much more of a problem because
18 there's a code and a way to get back. Then, to me, the
19 obligation shifts. The expense doesn't get any --
20 maybe it gets a little bit less, but the ethical
21 obligation shifts, for me.

22 DR. GREIDER: To where?

1 DR. COX: To informing the people. This is
2 only in the case, though, where you're in a situation
3 where you have something you can do that's really going
4 to be life-saving to those people. The interesting
5 thing is, the American Society of Human Genetics is
6 shifting in this same way with respect to going back
7 and telling relatives.

8 What happens if the individual doesn't want to
9 tell their relatives, and you can do something that
10 basically you know will save that relative's life, do
11 you go back and tell them? There was a big discussion
12 at the annual meeting and they're shifting over to say,
13 yes, in those situations where you can really do it,
14 it's okay to tell them and, in fact, you should tell
15 them. That's what they do in the rest of the world.

16 Boy, let me tell you, people just went
17 ballistic, the counselors and the medical geneticists
18 about that, because they had this different ethical
19 view of looking at things. So we're on very shifting
20 sands here in terms of what the obligation is of going
21 back or not going back.

22 CHAIRMAN MURRAY: Fran?

1 DR. PITLICK: Are we still talking about that
2 upper left-most corner box?

3 DR. COX: No, no. We're done with the upper
4 left one.

5 DR. PITLICK: Well, I can't figure out what
6 your scenario is about whether we are --

7 DR. COX: The scenario is prospective studies.

8 DR. PITLICK: Okay. So it has required --
9 okay.

10 DR. COX: No. Listen, from the upper left-
11 most box, going back to those people and all those
12 things that are stored --

13 DR. PITLICK: But in some of these cases there
14 wouldn't be a fire wall, and that is, in a sense,
15 what's confusing me. If there's a fire wall, you're
16 dealing with an anonymized situation.

17 MR. HOLTZMAN: We are dealing with the upper
18 left-hand box as well. You have to recognize that.

19 DR. SOBEL: The samples are going to become
20 that, except for the fact that they gave blanket
21 consent.

22 MR. HOLTZMAN: Right. I mean, effectively,

1 right, what we're talking about is the uncontemplated
2 study.

3 DR. COX: Yes. But the difference is, Steve,
4 you weren't able to talk to them ahead of time.

5 MR. HOLTZMAN: Right.

6 DR. COX: And I make a big distinction between
7 those.

8 MR. HOLTZMAN: Yes. But it's effectively not
9 that different. All right. If it's in the box today
10 and the person --

11 DR. COX: Ethically it's not, but practically
12 it is.

13 MR. HOLTZMAN: But the argument is that
14 practically, with respect to the sample I collect
15 tomorrow, the consent I will get for the study that I
16 can't envisage yet is that I'm going to do studies
17 which I can't envisage. To me, that's tantamount to
18 the general consensus we got yesterday.

19 DR. COX: No. But you will have talked to the
20 people and told them about that, whereas previously,
21 okay, you didn't. That's a big difference to me.

22 DR. MIKE: What if when you talked to them in

1 the beginning you said, I don't want you to tell my
2 relatives. You just told me that they are moving
3 toward telling the relatives anyway.

4 DR. COX: In some situations, that's exactly
5 right.

6 CHAIRMAN MURRAY: That's in specific clinical
7 interactions. Yes. I want to put the family aside for
8 next year.

9 DR. COX: It sounds to me like you're not
10 going to come up with a rule, but rather come up with a
11 list of exceptions.

12 DR. EMANUEL: Wait a second. There is some
13 benefit here in speaking to the boxes. I don't know
14 whether it's these or other boxes, in part, because
15 we're mixing and matching and there may be a consistent
16 set of exceptions or a very definable set of exceptions
17 which Steve has outlined that is going to run
18 throughout the boxes, where you have general consent,
19 recognizing some future test, and it could be in some
20 of these either studies or clinical situations 5 or 10
21 years down the line where you end up getting the test
22 that may be relevant to them because there's now a

1 therapy available where there wasn't, so it was useful
2 to examine these things.

3 But it seems to me one of the differences is,
4 if we're agreed that there's going to be some kind of
5 general consent we also have to recognize that probably
6 the general consents you're going to get in a research
7 setting is going to be different than the general
8 consent in a clinical setting because, you know, if
9 we're talking about a research setting there is
10 probably going to be a moment where there's a
11 researcher in the room and the patient or subject in
12 the room.

13 If we're talking about the clinical scenario,
14 there very well may never be that moment, in part,
15 because what we talked about is that when there is a
16 clinician and a patient in the room it's the wrong time
17 to ask these questions and we're talking about maybe
18 going back afterwards or going before.

19 DR. COX: That's absolutely true.

20 DR. EMANUEL: So I think keeping those
21 separate is also going to keep in our minds different
22 kinds of paradigms for how this is going to work. The

1 other thing we might want to remember is that part of
2 what we talked about last time, and again, I don't
3 think we've come to a conclusion, is a general consent
4 for research studies but an opt out for a clinical
5 situation.

6 Not a consent, an opt-out scenario. A
7 presumed consent with an opt out, because, precisely,
8 we wouldn't have this interaction, which I think may
9 mean that in the clinical situation the barrier for
10 going back has got to be a lot higher.

11 MR. HOLTZMAN: I completely agree. We need to
12 work through your trunk. And not only the specific
13 boxes, but if you think about the Weir paper, which I
14 do think kind of laid out some of the conceptual
15 framework that people are using, or we've rejected
16 something which you have in your upper left, or we've
17 said effectively that the clinical versus research
18 collection distinction with respect to its existing
19 samples is unimportant. In our paper we need to say
20 why we believe that.

21 CHAIRMAN MURRAY: Or we need to give
22 justifications, reasons for all of these judgments.

1 DR. COX: But no one is placing any big
2 distinction on the fact that -- I see. But you're
3 making the point--I'm slowly getting this--that there
4 actually is a clinical versus research distinction
5 because if there's a researcher in the room the
6 researcher can then tell people about it, but if the
7 clinician is in there and would be just collecting it,
8 you can't tell them. But it's not worth making that
9 distinction in terms of just lumping them together.

10 DR. EMANUEL: Well, if you look at the
11 previously collected samples, then my paradigm is,
12 samples that are now stored in Stanford University
13 versus the Physician's Health Study -- in the
14 Physician's Health Study they got some kind of consent,
15 but they didn't anticipate all of these genetic tests
16 when they originally collected them.

17 They certainly didn't anticipate immortalizing
18 the cells. Similarly, when they collected the clinical
19 sample there may be a line of that in the consent for
20 the surgery, but no one read it, and certainly no one,
21 as best as we can tell, observed it.

22 So I think it was some of those considerations

1 that led us to believe, well, really, in some sense
2 these are materially the same kind of samples. People
3 didn't consent, either generally or specifically, for
4 this.

5 DR. COX: Either way.

6 DR. EMANUEL: Right. On the other hand, in
7 the future, if you think about the clinical scenario,
8 well, there's not much we're just going to change in
9 the clinical scenario that's going to give you a chance
10 to get an informed consent, either a general or a full
11 informed consent, because at the moment where someone
12 is consenting to get their colon lopped out or the
13 breast biopsied, they're in no mood to hear about
14 research, storage of the sample, et cetera, and they
15 won't remember it. It's just not going to happen. So
16 there, if we sort of think of an opt-out system, we're
17 going to send them a form and if they object they can
18 send it back, it's likely to happen in a situation
19 where there's not going to be a clinician there talking
20 to them.

21 Conversely, in the research setting, if you
22 are going to get something like a general consent for

1 use in an anonymous research study, then someone will
2 be in the room, the opportunity for explanation. On
3 the other hand, if you want an identifiable sample,
4 then they have to give what we call full informed
5 consent for this specific research project.

6 I do think at some point we should talk about
7 what we mean in our minds, the difference between full
8 informed consent and general consent, because, again, I
9 submit there are differences, but they're not maybe as
10 great as many people think.

11 DR. COX: Because, Zeke, you're making the
12 distinction between people going in and getting their
13 big toe cut off and somebody uses it as opposed to
14 people that are enrolled in research studies. When I
15 think about clinical stuff -- I didn't get this out of
16 the transcript. I mean, I see it now, of lumping the
17 stuff that comes out of the -- extra material from
18 clinical stuff that the pathologists have. That's
19 actually what you're talking about, too.

20 DR. EMANUEL: Right.

21 DR. COX: Right? In your whole scenario, all
22 of this was over in the left-hand box. But that's very

1 different from people being involved in clinical
2 research studies.

3 DR. EMANUEL: Right.

4 DR. HANNA: If it's just a population study,
5 we don't have a medical record. Presumably you don't
6 have a medical record assigned to it.

7 DR. GREIDER: But even if there isn't a
8 medical record --

9 DR. COX: Right. Not a medical record. You
10 might have a research record.

11 DR. HANNA: Right. But you don't have a
12 medical record so it's different.

13 DR. COX: I must say that I have much less
14 trouble with that than I do with the research studies
15 because right now in the research studies we don't go
16 back to people. We don't do it. We say we do it; we
17 don't do it.

18 CHAIRMAN MURRAY: Which research studies,
19 David?

20 DR. COX: The clinical research studies.

21 DR. EMANUEL: NHANES. Take that. The NHANES-
22 III. They're not going back.

1 DR. COX: They're not going back. Exactly.

2 But do the people know that?

3 DR. GREIDER: Well, they know they're in the
4 study.

5 DR. COX: Yes. But do they know that no one
6 is going back to them?

7 DR. EMANUEL: I think in NHANES they do,
8 actually.

9 DR. COX: I would really question that.

10 DR. SOBEL: This reminds me of when the Heart,
11 Lung and Blood Institute had a panel to discuss the
12 Congressional demand that all these blood bank samples
13 should be used for AIDS research and they went back and
14 looked at what kind of consent they had obtained to
15 obtain the samples and, in fact, they found that half
16 the groups couldn't even find their informed consent
17 documents at all, and those that did, it depended on
18 how it was written.

19 Some of them said specifically HIV, some of
20 them said viral so that it was possible to do
21 hepatitis. But if they didn't say infectious disease
22 and they said viral, then they couldn't go back and do

1 parasite studies, which are now important.

2 So that's the paradigm for, you can't predict,
3 way back, the potential uses for information. The
4 other part of that discussion was that some of the
5 blood bank directors said that within one year they
6 lose track of 50 percent of their donors.

7 Now, we had a discussion this morning that
8 it's possible, on the Internet, to eventually find
9 someone's address. But I don't know how the staff time
10 is involved in doing that, especially in medical
11 centers where you have people coming from different
12 areas of the country for expert care and you have a
13 very mobile population in this country anyway. You're
14 not going to have very good trackability anyway, except
15 in the longitudinal studies where that's the real
16 purpose.

17 DR. COX: Yes. But in that exact situation of
18 the Heart, Lung and Blood that you talk about where the
19 patients were collected under specific informed consent
20 for a specific thing, then if they weren't given the
21 opt out for the types of research, then what do you do?
22 Do this prospectively, now.

1 So what should you do in the future, and
2 should you allow them to opt out or should you just say
3 that your stuff is going to be used for other research
4 studies too? I mean, this is what we're talking about
5 here. It's in a research setting. That's where most
6 of these samples --

7 MR. HOLTZMAN: Well, they don't come up mostly
8 in research studies. I think what you're going to find
9 here is that what is most problematic is the pragmatics
10 of --

11 DR. COX: That's where the samples are now.
12 Right.

13 MR. HOLTZMAN: -- that the clinical
14 collection, all right, because all of the things that
15 you might ideally want in some ideal world built into
16 robust consent. It's just not going to be possible to
17 build it into the clinical situation.

18 DR. COX: Okay. But let me just say to me --
19 and I agree with that, Steve.

20 MR. HOLTZMAN: Okay.

21 DR. COX: It's certainly true in terms of what
22 the numbers are, too. But then let's make this really

1 strict distinction between prospective clinical
2 research where you're talking to the patients and when
3 you're not, because I think that that's very different.

4 MR. HOLTZMAN: Again, we really need to work
5 this through. That's why we felt it was important to
6 keep that distinction --

7 DR. COX: Alive.

8 MR. HOLTZMAN: -- with respect to the things
9 we're going to collect tomorrow. Now, where you're
10 going to run into the graying is when, even in the
11 research setting, going forward when you start to think
12 about the studies you haven't thought of yet and what
13 is the nature and content of the consent in that
14 instance.

15 DR. COX: Well, so I'm very happy to have my
16 mind opened to this, but I think it's too key, by half,
17 to basically take the samples that are collected in a
18 research study where it's prospective in talking to
19 patients and saying, okay, now they're already
20 collected and they fall into this other category.

21 DR. EMANUEL: No, no.

22 MR. HOLTZMAN: We agree with you. We agree

1 with you.

2 DR. EMANUEL: I think up at the top where it
3 says, "Samples collected in the future," the meaning
4 there is samples collected after we publish our report
5 and we think that regulations ought to have been
6 implemented and that people have had time to think
7 about the kinds of consents.

8 My own challenge to my fellow commissioners
9 is, try to think about the kind of general consent
10 form, either in the clinical setting or in the research
11 setting, where you want it to be general that you would
12 have. Here's my attempt, and it's not very
13 satisfactory. I'm just not happy with it.

14 I think it's a problem and we need to try
15 ourselves to think about the kinds of things we think
16 ought to fall in there and the kinds of things which we
17 think might not fall in there. Think of all the
18 examples that we've just brought up, because one of the
19 things that I don't have in my thing here is, do you
20 want to be contacted back.

21 MS. ALPERT: I had put a little bit in my
22 paper about it. The OPRR and FDA have come out with

1 their revised lists of what's eligible for expedited
2 review. This is a notice for comment out in the
3 *Federal Register*. One of the things that they -- and
4 this may or may not make a difference but I just wanted
5 to highlight it, this was not in the old list.

6 "Research involving solely A) prospectively
7 collected identifiable, residual, or discarded
8 specimens; or B) prospectively collected identifiable
9 data, documents, or records where A or B have been
10 generated for non-research purposes."

11 So what they are saying now is that they are
12 including clinical data or clinical specimens for
13 expedited review.

14 CHAIRMAN MURRAY: Including identifiabiles.

15 MS. ALPERT: Absolutely. That's all that it
16 is. So I just thought I would --

17 CHAIRMAN MURRAY: That just means --

18 MS. ALPERT: It -- the review, but it's not --

19 CHAIRMAN MURRAY: As opposed to full review,
20 exempt from the review, or expedited. This is
21 expedited.

1 MS. ALPERT: Right. It's a truncated approval
2 process.

3 CHAIRMAN MURRAY: It's administrative review.

4 MS. KRAMER: Zeke, can you and others
5 circulate these? I understand that they're just
6 working papers.

7 DR. EMANUEL: They're so embarrassing, but I
8 would be happy to.

9 MS. KRAMER: Well, to me, I don't even know
10 where to start.

11 DR. EMANUEL: Well, I'd be happy to Xerox it
12 and send it around.

13 MS. KRAMER: Yes.

14 DR. EMANUEL: This was an attempt at the opt
15 out for the clinical anonymous in the future. This was
16 an attempt to define an opt out using the National
17 Coalition's thing. It just was not -- I spent a couple
18 of hours on it, but it's not so easy. That's all I
19 have to say.

20 DR. MIKE: Well, I mean, but there's a
21 diminishing utility since most people are not going to
22 pay attention to it anyway. They're under duress.

1 DR. EMANUEL: No, no, no. The question is, if
2 you send this to them, say, a week or two after they're
3 in the hospital or a week or two before they're going
4 to come in the hospital so they're not under that kind
5 of stress. You're going to send this to them and if
6 they don't want it -- you'll see the structure of it
7 is, if you want to check off any of these boxes you
8 send it back in the enclosed envelope.

9 CHAIRMAN MURRAY: If we don't hear from you --

10 DR. EMANUEL: Right. If we don't hear from
11 you, we presume that you're going to participate.

12 DR. MIKE: There are problems with that.

13 DR. EMANUEL: Well, as we heard from BRCA --

14 DR. MIKE: Is that a default opt out or a
15 positive opt out, because you're describing a default
16 opt out.

17 DR. GREIDER: Presumed consent with an opt
18 out. If you don't send it back, you're in the study.

19 DR. EMANUEL: Well, you're not in the study.
20 Your sample could be used for some future study.

21 DR. GREIDER: Right.

22 DR. EMANUEL: But it says here quite clearly,

1 one of the things I put in there, that it's highly
2 unlikely. Importantly, the vast majority of tissue
3 samples are never used for research which, from what we
4 gather, has to be true if we have more than 100 million
5 samples.

6 DR. GREIDER: But that won't necessarily be
7 true in the future.

8 MS. KRAMER: But that's disingenuous. Right.
9 Exactly.

10 DR. COX: See, this is actually what I'm
11 worried about. We have the 100 million samples. This
12 is the point, actually, you brought up, which is really
13 a good one. It's not the number of samples, but it's
14 what gets popular to be used, because if researchers
15 use a set -- that's why there's all this business about
16 the different institutes.

17 There's this group of samples that are taken
18 and people glom under those. They say, I want to do my
19 stuff with that group, and then more and more people
20 use it and it gets used for more and more things.
21 That's exactly what I'd rather not see happen, because
22 that's the better chance that people are going to be

1 unhappy campers.

2 DR. MIIKE: I'm just thinking of the logistics
3 of this. You get discharged from the hospital. Who
4 sends it, the hospital or the doctor?

5 DR. EMANUEL: The hospital.

6 DR. MIIKE: Then so how many thousands of
7 letters are we going to now be responsible for in a
8 year? Would I include it with the bill? No, I'm going
9 to do a separate mailing.

10 DR. EMANUEL: No, I agree with you.

11 DR. MIIKE: I see all kinds of operational
12 difficulties.

13 DR. EMANUEL: But, Larry, here's the question.
14 If we're going to give people an option to opt out and
15 it's going to be meaningful, or you could do it the
16 other way -- I will just tell you, if you want to do it
17 as an opt in, only people who say yes, the answer is --

18 DR. MIIKE: I think the simplest way to opt in
19 or out is, here's your consent form. Instead of
20 burying it in paragraph 78, after you sign the consent
21 form there's a little thing, P.S., your tissue may be
22 used in research in the future for some unspecified

1 reason; do you also consent to this? Just highlight it
2 away from the general form.

3 DR. EMANUEL: And P.P.S., I forgot I even read
4 that and signed my name to it. That's what we're
5 hearing. I can tell you, that's what the studies show.

6 DR. PITLICK: But I don't think that the
7 consent forms usually had a specific line about
8 research in --

9 DR. EMANUEL: Usually the line they have is
10 that, we're a research institution, we use these
11 samples for research and education, just to let you
12 know.

13 DR. COX: And, Zeke, there's an additional
14 part to this which I think that we, as a commission,
15 have a big impact on. It's not just what you write
16 down, but it's what people say. A person has to hand
17 you that piece of paper, at least that's the way it
18 happens right now for surgery and things.

19 No matter how upset you might be, if anybody
20 ever asked me if I cared if my stuff was used for
21 research or not, then I might forget because I was
22 upset, but I'll guarantee you, I'll have a much better

1 chance of remembering if they had never even mentioned
2 it and it was on the piece of paper. So it's what you
3 say in addition to what the paper says, too. It's how
4 you inform people.

5 If you have, as you said, that thing written
6 down and then a person says, yes, there's a second part
7 to this which basically doesn't have to do with your
8 operation or anything but it has to do with any tissue
9 that will be left over, do you agree to research or
10 not.

11 MR. HOLTZMAN: Yes. But what we've heard
12 about with respect to that moment when a person is
13 coming in for a biopsy, they think and they're afraid
14 they have cancer -- all right. We heard two things.
15 First off, it's not clear that you should be talking to
16 them about the research use of their tissues in that
17 context, just as a human matter.

18 DR. COX: It's not that that's --

19 MR. HOLTZMAN: Right? Number one. And then
20 number two, if you do, that the likely interpretation
21 of that is one of being coerced because, were you to
22 say I don't want my sample used for research, that you

1 may not get as good care because you have offended the
2 doctor. So, I mean, the take-home I took from that,
3 from opposite ends of the spectrum, is that is not the
4 moment to be trying to get full-blooded consent.

5 DR. COX: No, I agree. So what other moment
6 do we do it?

7 MR. HOLTZMAN: Well, that --

8 DR. COX: Because there's two choices. We
9 either find a better moment, which I can absolutely
10 agree with, or we take that moment that presently
11 exists and we do it better than we're doing it now.

12 MR. HOLTZMAN: Right. And my conclusion is
13 that --

14 DR. SOBEL: Which also means educating
15 hospital personnel, the clerk at the entrance room who
16 is usually the one that does it, who is not
17 particularly educated about it.

18 DR. EMANUEL: We have experience with that and
19 it doesn't work particularly well. We should all be
20 aware of that.

21 DR. COX: So another moment, that would be
22 great.

1 DR. PITLICK: How about at discharge? Is
2 there any experience with hospital discharge, doing it
3 then?

4 DR. EMANUEL: Well, you know, with outpatient
5 mastectomies, what discharge is there anyway, anymore?
6 I mean, the discharge is when you're half under
7 anesthesia.

8 (Laughter)

9 MS. KRAMER: My experience has been that there
10 is a certain amount of papers and forms that you have
11 got to fill out and sign off on prior to entering the
12 hospital not even necessarily the day you enter, but a
13 day or two days, or whatever, before.

14 DR. GREIDER: So you know two days ahead of
15 time.

16 MS. KRAMER: Right.

17 DR. GREIDER: Assuming you know two days ahead
18 of time. The times that I've gone into the hospital I
19 didn't know two days ahead of time.

20 MS. KRAMER: Well, okay. Right. Exactly. So
21 in an emergency case it's going to be different. But,
22 insofar as -- I don't know what the majority of cases

1 are, but I would imagine that the majority of cases are
2 non-emergency cases.

3 So if it could be attached to those papers
4 that need to be taken care of on a preliminary basis,
5 yes, sure, you're anxious about it, but at least if
6 you're confronted with it and need to sign -- maybe
7 what needs to be done is, maybe there does need to be a
8 separate, additional signature for a statement that
9 says either I consent or I opt out.

10 DR. MIIKE: I'm getting more to the point
11 where I'm saying, we don't really need to pick a
12 specific set of recommendations because this way we're
13 -- I mean, we have the unscientific focus group
14 discussions on which we cannot rely in a valid fashion.

15 DR. EMANUEL: Because we don't have IRB
16 approval.

17 DR. MIIKE: Not only that, but because of
18 whatever.

19 What if we come to the conclusion that we are
20 swayed that informed consent, et cetera, et cetera, are
21 so important that they're worth all of the operational
22 research impediments.

1 If we are swayed that research really is what
2 -- there's nobody really objecting to research -- do
3 you know what I mean? I'm trying to set up sort of an
4 alternate scenario that if we get swayed one way overly
5 versus another way, that then we come up with easier
6 ways of recommending some of these things.

7 So that in terms of the informed consent side,
8 if we're swayed that research is a good thing, we still
9 need to worry about informed consent, maybe we can
10 protect it on the back end by the kinds of things that,
11 once you get into the actual research design, the whole
12 issues about confidentiality.

13 I don't know how you deal with individual
14 instances or very unique sets of circumstances or the
15 exceptions to the rule kind of a thing, but it seems to
16 me we don't have to come up as a body and say, this is
17 the way we've got to go. We can give them a set of
18 choices. Whatever we come up with is not going to be the
19 ones -- nobody is going to accept the recommendations -
20 - right? They're looking for wisdom from us.

21 DR. COX: They will if they agree with what
22 they already thought ahead of time.

1 DR. EMANUEL: But here's the issue, Larry. I
2 think you're right, but the question is whether we're
3 going to require some kind of consent or whether
4 something like presumed consent with an opt out would
5 be acceptable.

6 Do you see what I'm saying? Because one
7 possibility, you know, might be that you have to say
8 yes. In a clinical setting, afterwards, I could use
9 your tissue only if you said it's okay to use your
10 tissue.

11 Another option would be, and I think Martha
12 was the one who started us rolling on this is, we're
13 going to use your tissue unless you have objected to
14 it. We've given you a reasonable opportunity to object
15 to it.

16 So I think those are the kinds of different
17 things that we have to struggle with or come to some
18 conclusion on, because they lead to different kinds of
19 -- you know, not necessarily different kinds of
20 procedures, but, at least conceptually, potentially
21 different kinds of procedures.

22 DR. COX: I think the opt out, personally, is

1 a very good compromise. It's definitely a compromise.
2 But just in terms of logistics, it gives the person --
3 it empowers the person to do something. The person has
4 to be awake. He can't be asleep at the switch.

5 DR. MIIKE: But if you don't opt out, then
6 what?

7 DR. COX: We are going to use it.

8 DR. MIIKE: What is the informed consent if
9 you don't opt out? What's the consequences of opting
10 out, are we still going to --

11 DR. SOBEL: This will not affect their
12 clinical care.

13 DR. MIIKE: What I'm saying is, are the
14 safeguards any different if you opt out or you opt in.

15 MS. KRAMER: Safeguards for?

16 DR. GREIDER: Your tissue is not used if you
17 opt out.

18 MS. KRAMER: Right. Exactly.

19 DR. GREIDER: End of story. It's not in the
20 research.

21 MS. KRAMER: That's it. Yes.

22 DR. EMANUEL: Then we could use your tissue if

1 it became relevant to a research project.

2 DR. MIIKE: So even if we put in an opt out,
3 you still have to deal with -- are obligated to do for
4 --

5 DR. GREIDER: Absolutely. I thought you were
6 saying that's presumed consent.

7 DR. MIIKE: I know. But then just the whole
8 issue about --

9 DR. EMANUEL: I'm not sure what you mean.

10 CHAIRMAN MURRAY: If someone agrees to opt
11 out, if someone says, I don't want you to use my
12 tissue, that's the end of the story, right?

13 DR. GREIDER: Well, what about the other
14 people?

15 DR. MIIKE: Your opt out or opt in choice is
16 overlaid on this. If you opt out, you're out. If you
17 opt in then it's used. This is what you propose?

18 DR. GREIDER: Right.

19 MR. HOLTZMAN: This is with respect to
20 specifically the concept of opt out and how it came up
21 in clinically collected with respect to use in an
22 anonymized fashion.

1 DR. GREIDER: The upper left that's showing
2 right now. In the future, clinical care, anonymous.

3 MR. HOLTZMAN: Right. No one has suggested so
4 far that opt out would be an appropriate mechanism for
5 future identifiable research, particularly if collected
6 in a research context. We might come to that.

7 DR. GREIDER: It's just in the -- column.

8 MR. HOLTZMAN: Right. So let's take it as --
9 Zeke's suggestion is with respect to clinically
10 collected samples that one could use an opt out as the
11 mechanism of consent for future studies conducted in an
12 anonymized fashion.

13 DR. EMANUEL: You understand? So we take out
14 your colon tomorrow.

15 MR. HOLTZMAN: Or the day after. It's up to
16 you.

17 DR. EMANUEL: And in the future we want to run
18 a test, we want to enter your colon into a research
19 study. DR. MIKE: We're not having an opt-out
20 provision in the research setting?

21 DR. EMANUEL: No. The research setting, you
22 do that in --

1 DR. GREIDER: 1A that is showing.

2 DR. MIIKE: In a research study, I don't
3 understand how it would --

4 MS. KRAMER: There isn't one.

5 CHAIRMAN MURRAY: You're asking, would you
6 participate in the study.

7 MS. KRAMER: Yes, there is. There is one.

8 See, in the --

9 DR. EMANUEL: That's for community.

10 DR. MIIKE: I don't have any problems with an
11 opt out because opt outs, I know most people won't opt
12 out anyway so there's going to be very little
13 difference in what happens. So it's going to make us
14 feel good, but there's not going to really be much of a
15 difference.

16 DR. EMANUEL: No. But here's the question.

17 MS. KRAMER: But you're covered. You've done
18 the decent thing. You've given them the opportunity.
19 If they don't choose to take it, okay.

20 DR. EMANUEL: Maybe the conclusion we want to
21 say is, we're putting too much emphasis on the consent
22 part of this story and the opt out is, we're doing

1 something but not full-blooded consent because we think
2 full-blooded consent is, first of all, where you can't
3 find a good time to -- if we found a good time it would
4 be enormously expensive, plus it wouldn't be full-
5 blooded consent because we still --

6 DR. MIIKE: That's why I think that once you
7 are doing the actual research itself, absent the kinds
8 of things that David would want to add in, I think
9 that's the more important part.

10 DR. EMANUEL: Fine. That's the boxes on the
11 right under Research Studies.

12 DR. MIIKE: Yes.

13 DR. GREIDER: The fire walls, you're talking
14 about.

15 CHAIRMAN MURRAY: After you then take the
16 tissues and actually do whatever you are going to do to
17 make them research tissue.

18 DR. MIIKE: But especially on the clinical
19 side, I mean, I don't see the content or the substance
20 of consenting to something you have no idea about
21 what's going to happen down the road. It's not
22 consent.

1 DR. EMANUEL: But, Larry, just take something
2 like the Physician's Health Study or the NHANES. You
3 can't consent to a very specific study, right? Some
4 tests might come up in five years after you've --

5 DR. MIKE: But at least you know you're
6 consenting to be a research subject. That's really
7 different from the clinical side.

8 DR. COX: You can consent though to the fact
9 that your stuff is either going to be used in a
10 research or not. Now, some people would say, that's no
11 consent because you don't know. Well, it means
12 something to me. I know what research is. Somebody is
13 going to take it and they're going to do stuff with it.

14 CHAIRMAN MURRAY: Look, it's worth reminding
15 ourselves what consent was about in the first place.
16 The idea was to prevent the abuse of human beings in
17 research, to prevent them from direct physical
18 manipulations and harms.

19 That's the condition of the kind of core or
20 paradigm case for why we regard consent as a sacred
21 thing on human subject research. That's it. We are
22 several steps removed from that kind of model in this.

1 We also think that in those situations you
2 ought to tell people exactly what you're going to do
3 and exactly what the risks are. This is, again,
4 several steps removed from what we're contemplating
5 here where we might not do research for 5, 10, 20 years
6 later, asking questions and using methods and tests
7 that weren't even invented or contemplated when we
8 originally gathered the sample.

9 So I am feeling the need for a little reality
10 testing on my own part to sort of get us back to what's
11 important here.

12 DR. EMANUEL: But we did hear from Bob Weir.
13 I mean, there's a heavy emphasis in his approach upon
14 the importance of consent, as it were.

15 DR. MIIKE: I'm going to get back in because
16 David is.

17 CHAIRMAN MURRAY: We've taken it as a -- I
18 think bioethicists have tended to treat consent as a
19 kind of all-purpose solution.

20 DR. EMANUEL: I agree.

21 CHAIRMAN MURRAY: Zeke, I know you agree. We
22 should not see it either as an all-purpose solution or

1 an all-purpose want for doing everything we want to do.

2 So it's okay for us to be thinking creatively about
3 some alternatives to the usual models.

4 MR. HOLTZMAN: I think something we need to
5 think about here, because again, as we take positions
6 they need to be articulated against the positions that
7 have been taken. So jumping ahead, I believe where we
8 may come out with respect to future unspecified uses of
9 samples collected in a research context, and we're
10 going to have some sort of general consent. So then if
11 you believe general consent is more robust, okay, then
12 --

13 CHAIRMAN MURRAY: Presumed.

14 MR. HOLTZMAN: Presumed consent. Okay. Then
15 the argument has been made on the one hand that that's
16 okay because, in some sense, the person getting
17 clinical care owed a duty back for the clinical care
18 they got, and on the flip side, the argument has been
19 made, no, no, they're more vulnerable than the person
20 who is in the research context, that at least the
21 research subject consented to the research enterprise
22 to begin with. So what is the justification for a

1 difference in the level of consent between those two
2 cases? All right.

3 Is it in principle where we're adopting one of
4 those arguments or, in fact, are we simply resting it
5 on the pragmatic ground, so to speak, that in the
6 clinical context the general consent, if collected at
7 the time, effectively is empty so you might as well go
8 to a presumed consent, whereas when you have the
9 research subject there you can, in fact, get a valid
10 general consent, if general consents are valid at all.
11 I think we have to walk through these things very
12 systematically.

13 DR. COX: But the people --

14 CHAIRMAN MURRAY: Does that make sense, by the
15 way?

16 DR. COX: Yes.

17 MR. HOLTZMAN: I think that's right. I think
18 that's the challenge.

19 DR. COX: But the people in a non-specific
20 study, in terms of voting with their feet, said that
21 they would rather not have a presumed consent, they
22 would rather have a general consent.

1 CHAIRMAN MURRAY: I don't think you could
2 infer that. What I heard them say is, we'd like to be
3 asked. All right. Opt out is a form of being asked.

4 DR. COX: But opt out is a general consent, as
5 far as I'm concerned.

6 CHAIRMAN MURRAY: You could do an opt out
7 general or specific. I mean, that's the difference.
8 It's a question of what are you saying, am I opting out
9 to all possible uses of research, am I opting out of
10 the specific --

11 DR. COX: When you say presumed consent --
12 MR. HOLTZMAN: Okay. So let's get our
13 nomenclature clear.

14 DR. COX: -- what does presumed consent mean?
15 That means presuming --

16 DR. EMANUEL: Let's stop. Let's walk back
17 from full-blooded consent. Actually, I think this
18 might be helpful if we -- do we have a blackboard?

19 CHAIRMAN MURRAY: Go ahead and use the flip
20 chart, Zeke.

21 DR. EMANUEL: Okay. These are the three
22 categories that we've been dealing with. Now, as I

1 understand full informed consent, here you outlined the
2 specific objectives, the benefits, risks, and the
3 alternatives.

4 Here you have a very specific research project
5 in mind. We're going to test it for ABOE, we're going
6 to test it for BARCA-I. Here you have only general
7 objectives, general benefits, risks, alternatives. We
8 should be clear that the alternatives is basically no
9 research, right? No go. Okay.

10 Now, here all you can say about your
11 objectives is, you're interested in research. And you
12 may not even know the area because you might collect it
13 for a cancer study but end up using it in some diabetes
14 work. Therefore, the benefits are very -- there's no
15 specific benefit for you, is basically what you have to
16 end up saying.

17 DR. COX: What some people will say is, you
18 collect it for a cancer study, use it for a cancer
19 study.

20 MR. HOLTZMAN: Well, in between you could make
21 class distinctions.

22 DR. EMANUEL: Yes. The usual thing we've

1 heard in this situation is, any research, the disease
2 for which the sample was collected.

3 CHAIRMAN MURRAY: But you've already pointed
4 out the problems with that.

5 DR. EMANUEL: Right. Then this, no genetic,
6 following the National Coalition, whatever. Any
7 research was one possibility, specifically for cancer,
8 specifically for anything but genetics. I tried to
9 implement some of that in what you're going to get, and
10 I guess Henrietta is going to fax it tomorrow. That's
11 very hard to do.

12 Risks we don't know, and the alternatives are,
13 you know, just pull your sample. But at least with
14 this you have an idea that it's going to be used for
15 research. Now, presumed consent is, we're going to use
16 it unless you say no, and we give you an option of
17 saying no, either a checklist option or just a no.
18 Now, the checklist option might be disease-specific --

19 MR. HOLTZMAN: Same categories as --

20 DR. EMANUEL: -- or genetics. Right. These
21 have been the two that have been cited in the past,
22 but, again, we're free to make suggestions as we go.

1 So I don't know if that's helpful.

2 DR. COX: It is helpful.

3 DR. EMANUEL: Here, what presumed consent
4 means is I'm going ahead unless you tell me no.

5 CHAIRMAN MURRAY: In the clinical samples,
6 maybe 1 in 100,000 might actually be used.

7 DR. EMANUEL: Right.

8 CHAIRMAN MURRAY: But then I have the
9 permission to go ahead at this point.

10 DR. COX: But, see, there's a presumed opt
11 out. We're in a situation right now where we have
12 presumed, no opt out.

13 DR. GREIDER: No, no, no. It's presumed in,
14 but you can opt out.

15 DR. COX: No, no. I understand. But what I'm
16 talking about is the situation that we have right now,
17 which is researchers say, I'm pretty sure that
18 everybody actually wouldn't really want me to use their
19 stuff --

20 CHAIRMAN MURRAY: We have this, informed
21 consent that may mean nothing.

22 DR. COX: Yes. That's why I was confused.

1 CHAIRMAN MURRAY: It's not presumed consent,
2 David. People sign. Much of it is, particularly in
3 recent years.

4 DR. MIKE: Can I ask a little tangential
5 question. Suppose we get a system to say disease only
6 or for everything. How are you going to follow this on
7 the samples? How are you going to get that marked down
8 with the samples that, oh, you can only do research for
9 cancer, this one for --

10 DR. EMANUEL: Two things on that. First,
11 there is a medical record then that captures the sample
12 and you can have a slot in the medical record. We have
13 slots for lots of things in the medical record now, the
14 original consent to undergo the surgery, advance
15 directive stuff. I mean, it's not difficult, it seems,
16 to put an entry in there.

17 Second of all, if you really believe that the
18 electronic record--I don't know when it's going to
19 come, but it's coming--there you just have a field and
20 if you can't use it for research, it pops up red.

21 DR. EISEMAN: That's how they do it in the
22 Women's Health Initiative. If people opt out of

1 genetic research, it's entered in the data base with
2 their code for the person.

3 DR. MIIKE: But that's a research study, isn't
4 it?

5 DR. EISEMAN: Right. But then they've opted
6 out. And none of those samples --

7 DR. MIIKE: I'm just thinking in terms of your
8 usual medical record.

9 MR. HOLTZMAN: The thing about the pathology
10 samples and what's asked, couldn't one have in the
11 pathology samples something which says, not to be used
12 for the following kind of research?

13 DR. PITLICK: We assume so. All of this adds
14 other -- everything we're talking about adds
15 administrative --

16 MR. HOLTZMAN: Well, it's one more field.
17 It's not clear to me that that marginal cost of one
18 more field in a relational data base is that much.

19 DR. COX: Yes. But, see, whether anybody pays
20 attention to it -- okay. So it will be in there, but
21 whether people actually pay attention to doing that.

22 DR. EMANUEL: I think we need much more

1 discussion.

2 MR. HOLTZMAN: I think a very important thing
3 for us to consider again is, insofar as these
4 distinctions are made, we hear people using genetic
5 testing versus other. If one of the things we're
6 coming to is that that's not a very useful distinction,
7 we might wind up recommending that that shouldn't be
8 what's being used here.

9 CHAIRMAN MURRAY: Right. And one thing I
10 contemplate as a possibility in the recommendations we
11 make is that some of the conclusions that we are led to
12 might, in fact, be conclusions that have a kind of
13 open-ended empirical -- like, we've made some
14 observations about the current function of these little
15 forms that people check off in a clinical setting for
16 the use of their tissue.

17 I feel pretty confident about those
18 observations. Maybe our recommendations will be for
19 opt out or our recommendations will be for a more full
20 sort of consent at the time even though it's not
21 optimal. One of our recommendations is that we need to
22 study to see what, in fact, the impact of this is.

1 So we might call for empirical studies to, in
2 fact, affirm or disaffirm what we think might be
3 happening, and then to change policies accordingly. I
4 don't see that we have to sort of say something once
5 and for all -- we can say, look, we recognize that
6 we've made assumptions in our own recommendations.

7 DR. COX: I really agree with that. Doing
8 things like we just did in terms of laying these things
9 out so people get their nomenclature right, so we
10 really see what the options are, then there's no way
11 we're going to have the data to say what the impact of
12 choosing one or another of these is.

13 This is what you were saying, Larry. I mean,
14 it's more sort of laying out the process rather than
15 the rules. It doesn't mean we won't have potential
16 rules, but we don't necessarily say, this is the way it
17 should be done.

18 MR. HOLTZMAN: I would submit to you that
19 there is a very large part of the research community
20 that is waiting for this group to come forward with a
21 set of recommendations about how and under what
22 conditions these things can be used. All right.

1 CHAIRMAN MURRAY: What I was saying wasn't
2 that we shouldn't make any specific recommendations.
3 I'm saying we could make recommendations recognizing
4 the assumptions built in, that they may be incorrect,
5 but we should also then suggest ways to sort of -- so
6 that we can -- next year our recommendations are
7 implemented, in five years are even going to be
8 something better there, and we ought to lay out the
9 architecture on those things.

10 DR. COX: If we could know how to do it, I'm
11 happy to do it. But I go back to the cloning report,
12 because there were significant bodies of people that
13 had high expectations for specific recommendations for
14 us in that scenario, too. I think if we can make
15 specific recommendations based on the facts, I'm happy
16 to do it, but if we can't, I'm not so keen on that.

17 DR. EMANUEL: Here's a suggestion. Under
18 samples to be collected in the future, clinical care,
19 to be used in an anonymous manner. There we might say
20 the following. We think the minimal level of consent
21 should be presumed consent with an opt out. Some
22 institutions may want to go to a general consent.

1 Now, we don't know exactly the best method.
2 It hasn't been tested what the best method for presumed
3 consent with an opt out is. It might be on the
4 surgical consent form in an extra paragraph. It might
5 be that you ought to send out a form two weeks later.
6 It might be that you want to send a form when they come
7 in for the pretesting, if it's an elective surgery.
8 All of those would be reasonable approaches.

9 We estimate, you adopt any of them now, we
10 hope that the field studies them to find out what the
11 most efficacious is, but these would be acceptable, you
12 know, that kind of thing. That seems to me to be a
13 reasonable regulation with built in the idea that you
14 can experiment in your local community, but you can't
15 just presume everyone is going to consent.

16 DR. PITLICK: I think one of the most
17 significant recommendations you could make, from my
18 perspective, would be the ability to use tissues in an
19 anonymous manner, whether or not they are linked,
20 whether or not the key is kept.

21 I think that is one of the most fundamental
22 statements that you've made about this whole process.

1 That deals with the current tissues and that can deal
2 with the issue of how the tissue was actually
3 collected, it seems to me. I think it would be a
4 significant advance that could help change how things
5 are done or could be done with current samples.

6 CHAIRMAN MURRAY: Would you let me talk about
7 the thing I scribbled up there a while ago, because
8 it's a little cryptic, I'm sure. Going back to the
9 presentation that Mark made, and I argued that -- I
10 asserted that it was a prior question, namely, might
11 there be any particular relevance that we'd want to at
12 least anticipate the possibility of going back to the
13 patient about, with all of Mark's stuff being on the
14 right and the answer to that question being, no, there
15 isn't. But I want to ask a question about that as
16 well.

17 If you answer yes, then we have to address the
18 question, will we walk back through this wall and what
19 kind of safeguards will we have, will they be
20 procedural safeguards, will it be an IRB or another
21 different body, whatever. We were talking about that a
22 while ago. We will need to return to this and make

1 some recommendations.

2 I had some questions about the no option and
3 the strategy Mark was outlining. He was proposing that
4 there be this code and the code be retained. I have
5 reservations about the wisdom of that.

6 DR. MIKE: Except that unless you can answer
7 the question, is it clinically relevant up front, you
8 cannot have a yes if you don't retain them.

9 CHAIRMAN MURRAY: I think you have to ask.
10 Well, this is a possible strategy. You ask the
11 question, you're given an honest answer. There has to
12 be some accountable procedure for ascertaining that the
13 answer given is an honest answer. You're right, maybe
14 one or the other of this is an empty set. I don't
15 know.

16 MR. HOLTZMAN: Well, the impetus for
17 maintaining the code, forget clinical relevance, is to
18 be able to add additional information --

19 CHAIRMAN MURRAY: Exactly. Exactly. But I'm
20 not sure you need to do that. There are schemes,
21 encryption schemes, that actually lose enough
22 information that you can't go back and figure out who

1 it was. But if you take that person's medical record,
2 you can reduce again and end up with the same code at
3 the end and you can plug it into the research data
4 base. So it's a one-way loss of information that would
5 permit --

6 DR. EMANUEL: It's not necessarily lost, but
7 it is an encryption possibility. You're looking
8 puzzled.

9 MR. HOLTZMAN: I'm looking puzzled because it
10 has seemed to me that if there is a connection in one
11 direction, by definition there has to be the
12 possibility of a connection back the other way.

13 DR. EMANUEL: But that actually turns out -- I
14 mean, again, I think it might be helpful to get an
15 encryption expert here, but I think actually that turns
16 out not to be the case. That's how this encryption
17 system works so that I can send you a message that you
18 can decode, but it turns out no one else can decode,
19 and I can't decode either.

20 MS. KRAMER: If it's difficult enough, then
21 it's not going to happen by accident. It's going to
22 happen because somebody deliberately sets out and goes

1 to a lot of trouble to do it. That seems to me to be a
2 rather extensive form of paranoia. No?

3 MR. HOLTZMAN: Again, let's come back to what
4 we're thinking of here. The flow of information, the
5 continuous flow to update the sample with relevant
6 information is something we want to keep happening. So
7 you're not going to set up a scheme where that's
8 difficult. All right. We have said that we want the
9 go-back to be as difficult as possible. We've said in
10 the limited case, we don't want it to be possible at
11 all.

12 DR. EMANUEL: Right.

13 MR. HOLTZMAN: But if you want it to be
14 possible, it's for the limiting case of when there's
15 medically relevant information that could help the
16 individual where you would have a sufficient reason to
17 climb over whatever difficulties were imposed.

18 So I think what Tom was raising is whether, if
19 it's contemplated that a medically relevant result is
20 unlikely, you should effectively break the connection
21 back, the possibility of the breaking of the connection
22 back. I'm willing to -- but I don't know enough to

1 assert that if you've got a connection in one
2 direction, by definition you have to have the
3 possibility of getting back.

4 MS. KRAMER: But the other aspect is that
5 you're judging now what might be relevant down the
6 line, which is not foreseeable.

7 DR. GREIDER: Right. Can you ever know what's
8 clinically relevant in the future?

9 MS. KRAMER: No. Right.

10 DR. COX: That's one point. Another point,
11 Tom, is that it turns out when people actually try and
12 do this, there's a reason why most of these samples
13 have identifiers with them, because you'd have to,
14 like, go through hoops to get samples that don't have
15 identifiers on them. To collect things in a truly
16 anonymous fashion is like a serious --

17 CHAIRMAN MURRAY: Or uncollected.

18 DR. COX: Or even to have them in an anonymous
19 fashion, to strip the identifiers, is not
20 straightforward. It seems straightforward.

21 CHAIRMAN MURRAY: But we're hearing from Mark
22 that it's not such a -- he didn't say it was a trivial

1 task, but it --

2 DR. COX: But the fact that most people don't
3 have it stripped, I guess --

4 CHAIRMAN MURRAY: Well, wait a minute, David.
5 I want to make this distinction between sort of the
6 guardian of the tissues, and they have identifiers with
7 them, right?

8 DR. COX: Right. Absolutely.

9 CHAIRMAN MURRAY: Now we're talking about the
10 researcher who now petitions the guardian to get these
11 tissues, through the wall, the stripping takes place
12 before they get passed through the wall.

13 DR. COX: Yes.

14 CHAIRMAN MURRAY: That doesn't sound like such
15 a difficult process to me.

16 DR. PITLICK: If somebody cuts off some new
17 sections off the microtome --

18 MR. HOLTZMAN: We get samples every day from
19 our clinical collaborators. We cannot tie those
20 samples to an individual, and we get updated clinical
21 information with respect to them as --

22 DR. COX: Right. But most samples aren't that

1 way right now, right, Elisa?

2 DR. EISEMAN: Well, it depends on what you're
3 talking about. The samples that are sitting in
4 pathology departments are identified, but when those
5 samples leave pathology departments and go to the
6 researcher, in most cases they've been stripped.

7 DR. COX: So even the pathologist couldn't get
8 back.

9 MR. HOLTZMAN: No. They're not stripped, it's
10 just that you don't have the connection --

11 DR. COX: But what Tom is saying is, one
12 wouldn't be able to do that.

13 MR. HOLTZMAN: Wouldn't be able to do what?

14 DR. COX: Would not be able to go back. The
15 researcher would not be able to get additional
16 information that way.

17 CHAIRMAN MURRAY: The researcher would not be
18 able to go back in and inform the pathology lab that --
19 this sample, which the lab could then break the code
20 and say it was Tom Murray's sample.

21 DR. GREIDER: So instead of being recoded they
22 would be uncoded. They would be completely stripped.

1 DR. EMANUEL: No. Or they would have a
2 reduced coding so that you could still put,
3 potentially, more clinical information forward, you
4 just couldn't go back and figure out who it belonged
5 to. This could be done. Now, maybe it's not
6 practical, I don't know. But it's clear it can be
7 done.

8 MR. HOLTZMAN: I think it's pretty easy,
9 actually.

10 DR. PITLICK: Where can we get an encryption
11 person to --

12 DR. EMANUEL: Yes. Again, I've put the
13 scenario to someone I know, and it's pretty easy,
14 according to him. But he may not have understood it
15 fully.

16 MR. HOLTZMAN: Even with new information
17 coming to the sample.

18 DR. EMANUEL: Yes. Yes. I mean, this is
19 thing that has the FBI all nervous about it. I mean,
20 that's what they're all worried about on the Internet,
21 because they won't have the key. Actually, no one has
22 the key. That's what the great thing about these

1 encryption systems is, no one has the key. You have a
2 tag to it that only the person with the other tag --
3 but it turns out you can't even unencrypt your own
4 message.

5 DR. PITLICK: Do we need more information
6 about how often information would come from the other
7 side of the fire wall to the researcher anyway?

8 DR. EMANUEL: Well, I think we have to presume
9 that -- I mean, from what I've heard, a lot of people
10 want to have that kind of a thing.

11 DR. PITLICK: But does it happen? How long do
12 the samples stay around, if they're doing the research,
13 that it would get updated anyway? I mean, it seems to
14 me it might even be a rare event.

15 MR. HOLTZMAN: No. You're doing a cancer
16 study and I'm looking at a marker for that. You want
17 to know what happens to that patient six months from
18 now, a year from now. They took this blood, and what
19 happened to them, et cetera, et cetera. I may not need
20 more sample.

21 DR. PITLICK: Well, I know. Okay. But you're
22 going to keep it going that long rather than asking for

1 something, a sample from two years ago, and you have
2 that information already in the record that comes to
3 you.

4 DR. EMANUEL: Both kinds of research get done.

5 DR. PITLICK: I think it might be a relatively
6 rare event.

7 DR. COX: I don't think so.

8 DR. PITLICK: You don't think so.

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14 NEXT STEPS

15 DR. MIIKE: Can I bring up something?

16 CHAIRMAN MURRAY: Yes. Then I want to turn to
17 something else.

18 DR. MIIKE: If we're going to have any chance
19 of a report ready in February, or even a buy-in by the
20 whole committee, we've got to reach our conclusions and
21 recommendations in December so that our January meeting
22 is for the full discussion.

1 So we need at least a set of conclusions or
2 recommendations for our December 9th meeting, however
3 incomplete, so that we can see what's down there and
4 argue over that and see what's missing.

5 DR. GREIDER: It's all up there. We just have
6 to get through and define what we mean by all of those
7 things, like what we did here.

8 DR. EMANUEL: You're right. You're right.

9 DR. MIKE: I mean, it's just the mechanical
10 table.

11 DR. COX: See, the reason I don't think it's
12 up there is because I read this stuff, I really tried
13 on the transcripts -- I mean, I wasn't here at the
14 talk. Now I'm up to speed, but the words don't say it,
15 I'll tell you that.

16 MS. KRAMER: You couldn't get it from the
17 transcript.

18 DR. COX: I couldn't get it from the
19 transcript.

20 DR. GREIDER: I have been here, and what I
21 understand that table to mean, I think that everything
22 we need to discuss is up there. It's very cryptic. We

1 have to go through each one of those things and define
2 what we mean about each definition.

3 DR. MIIKE: But if we went to the full
4 committee with that, we'd get nowhere. We would get
5 absolutely nowhere.

6 DR. GREIDER: I agree, but it's a starting
7 point.

8 MR. HOLTZMAN: Maybe the boxes represent all
9 the key decisions, and Zeke has put a proposal
10 together, right? So we have to have the rationale,
11 first off, of why we've adopted this framework, where
12 we've departed from generally accepted frameworks, why
13 we've departed, if so, and then we need to decide
14 within each of those boxes, do we agree --

15 DR. MIIKE: What I'm saying, though, is in
16 order for the other committee to even understand what
17 we're doing, we're going to have to say, what is the
18 issue we're addressing.

19 MR. HOLTZMAN: Well, that's back to the
20 conceptual framework.

21 DR. MIIKE: Framework. Exactly.

22 MS. KRAMER: Can I make a proposal? That when

1 we come into the next meeting that we ask Kathi to
2 bring her computer and that we go through it box by box
3 and spell it out in words.

4 DR. GREIDER: I think we have to do that
5 before the next meeting.

6 MS. KRAMER: Before the next meeting.

7 DR. EMANUEL: I mean, here are blanks. You
8 have blanks in your -- you know, the reason the blanks
9 are given is because I think people should fill them in
10 in their own mind as to what they want, and also try
11 out the various different options.

12 DR. COX: Zeke, can I ask one question,
13 because we're getting close to the end, just to help me
14 with this. I can't imagine an identified community
15 where there's not potential harms done in the context
16 of the community. What's an example of that?

17 DR. EMANUEL: Well, the example I gave way
18 back when was, you have the ongoing AIDS study of
19 people that are already identified, and you want to
20 take their sample. You collected blood, but you're
21 using it up too fast and you want to make immortal
22 cells. Okay. That's one example. In some other

1 examples, you might be looking at a gene that doesn't
2 seem to carry any stigmatization for it.

3 DR. GREIDER: So I'd give the example of, you
4 know, people who have attached earlobes versus non-
5 attached earlobes, and you happen to have a large
6 genetic population you're looking at and you want to
7 ask, what is the prevalence of attached versus non-
8 attached, what stigmatization is there to your
9 earlobes?

10 DR. EMANUEL: Or baldness.

11 DR. GREIDER: Baldness. Okay.

12 DR. EMANUEL: We're talking about harms that
13 are going to arise. That may be something someone
14 doesn't like.

15 MR. HOLTZMAN: Then as a result of the
16 discussion, one person's stigma is another person's
17 beauty. I think that Zeke came forward with the
18 recommendation that one ought to at least go to an IRB
19 and ask the question, am I off the wall in thinking
20 that there is no stigmatization.

21 DR. COX: But what you're doing is you're
22 talking about things that cut across different groups,

1 so it's not unique to this group but it's present in a
2 whole variety of other groups, too. So that makes it
3 not be group.

4 DR. EMANUEL: No, no, no. It might be, you
5 want to look, for example, at the baldness gene in a
6 particular subpopulation, right? Or the need for
7 eyeglasses.

8 DR. MIKE: We have been so immersed in the
9 details of our particular charge here that I'm not sure
10 we are all on the same page about what we're supposed
11 to be addressing.

12 So I think we've got to have something that's
13 not condensed so much like this in terms of very
14 specific options in very specific areas, but sort of,
15 again, say something that's a narrative that everybody
16 can relate to --

17 DR. COX: That's what I meant by the whole
18 picture. I mean, that's what I said to Tom I'd try and
19 write down. We can use this too, but if you have
20 written down -- if each of us writes down what the
21 whole picture is, it doesn't have to be 20 pages of
22 text, but it could be an outline of what are these

1 global points that you're talking about, the issues
2 that we're working on. I mean, this part is written
3 down. Then you have both parts.

4 CHAIRMAN MURRAY: Let me ask if this would be
5 a sensible way to go about organizing the next meeting
6 on December 9. We have this schema in the various
7 boxes and, I agree, a substantial part of the meeting
8 should be to go through it and see whether it captures
9 what we think is important.

10 We have a few other things that are mentioned
11 there, I think, but we haven't fleshed out and will
12 require some additional work.

13 One of them would be what kind of consent,
14 when, in what form; second would be the circumstances
15 under which you would want to walk back when you
16 determine clinical relevance; third would be defining
17 terms. I don't think we should do that at the meeting,
18 we should do that before the meeting.

19 A fourth would be the whole issue of community
20 consultation and/or consent. We haven't really talked
21 about that much today, at my request, because Bernie is
22 not here.

1 What other things? I would like to sort of
2 block out a meeting where those become our agenda
3 items. I welcome our contractors here, but it's
4 basically going to be commission working with
5 commission to try to make this --

6 DR. GREIDER: Well, we need to have in there
7 why we collapsed clinical and research on the
8 previously existing samples.

9 CHAIRMAN MURRAY: I think that needs to be in
10 the report that we submit, but I don't think we need to
11 talk about it, unless you feel the need to talk about
12 it.

13 DR. GREIDER: I don't feel the need to talk
14 about it.

15 CHAIRMAN MURRAY: Bette?

16 MS. KRAMER: Do we need to identify
17 illustrative cases or illustrative scenarios to go with
18 each of these?

19 DR. GREIDER: I think we should have to have
20 that in the report.

21 MS. KRAMER: We need it in the report. So
22 shall we just agree, as we go through it next time, on

1 what cases we want to use to make sure we've captured
2 all these things that we keep talking about?

3 DR. EMANUEL: I've submitted some of those
4 papers, and maybe other people in the course of time
5 have others.

6 CHAIRMAN MURRAY: I think it would be helpful
7 to be able to say that this case belongs in this box,
8 and I think we should make that something that we try
9 to do as we go through this.

10 MS. KRAMER: Perhaps we don't need to use
11 specific cases, perhaps we just use general -- okay.

12 DR. MIKE: I think it would be real useful,
13 when we propose a particular policy, that we completely
14 illustrate it.

15 MS. KRAMER: Right.

16 DR. MIKE: Otherwise people won't really be
17 sure what we're talking about.

18 MS. KRAMER: Okay.

19 CHAIRMAN MURRAY: What other things are
20 absolutely urgent and must be on the agenda for the
21 next meeting? Everybody is tired. If you think of
22 something, call or e-mail me immediately, because we're

1 going to have to set the agenda for the December 9th
2 meeting within the next few days. We can be flexible
3 when we get here, but we do have to put an agenda out.

4 MS. KRAMER: Okay. Jumping ahead, and perhaps
5 I was remiss in not bringing this up at the joint
6 meeting, but thinking ahead to when we -- I'll speak
7 for myself. Thinking ahead to when I have to pass on
8 the work or the proposed reports of the other
9 commission, I know I am going to be really loathe to do
10 that without having heard not just their
11 recommendations, but a lot of their backup.

12 I haven't read the material and I doubt I'm
13 going to get to it. I mean, perhaps if somebody said
14 to me, read papers 1, 2 and 3, they're the ones you
15 need to, I could. But I'm not going to read the
16 transcripts, I can't read all the material.

17 So I'm anticipating that the same thing is
18 going to happen on the part of that committee, certain
19 members of it, with regard to our report. If we want
20 our report to go out in February, I can't see how -- it
21 seems to me we're going to need the entire agenda of
22 that January meeting to get that report by the full

1 commission.

2 CHAIRMAN MURRAY: Let's see where we are in
3 December. If we feel like we have a set of
4 recommendations that we are prepared to go forward
5 with, then we'll just elbow and see if we can get most
6 of the time in January. It depends also on where
7 the --

8 DR. EMANUEL: But it also sounds like they're
9 not going to be ready in January. I mean, that was
10 what they suggested.

11 CHAIRMAN MURRAY: They may not. And we might
12 be.

13 MS. KRAMER: But, you know, perhaps maybe you
14 ought to explore that with Jim and Harold, or something
15 like that. I mean, maybe that meeting needs to be
16 expanded to a day and a half, something like that.

17 I went home from the last meeting, and I think
18 I'm going to go away from this meeting as well, feeling
19 that if we could come back tomorrow and put in another
20 half day, that we could really wrap up a lot of stuff.

21 DR. MIKE: You know, they're coming out with
22 two reports.

1 CHAIRMAN MURRAY: Yes.

2 DR. MIKE: One of them is so archaic, I have
3 no idea --

4 MS. KRAMER: Right.

5 CHAIRMAN MURRAY: Right. I mean, Bette's
6 targets are right on target. I mean, I think we
7 already have a preview of the way different members of
8 the other subcommittee are going to -- our report.

9 MS. KRAMER: And you know, Tom, I don't fault
10 them because we may very well be in that position.

11 DR. MIKE: This may be very well -- I mean,
12 we were lucky in the cloning, there were no dissenting
13 opinions or people bent on having an expanded personal
14 opinion attached to this. I'm sure that --

15 CHAIRMAN MURRAY: It's going to happen.

16 DR. MIKE: -- in our coming ones, that's
17 going to happen.

18 CHAIRMAN MURRAY: No, I'm not sure of that. I
19 think people are going to have to make a choice to what
20 extent they want to get every single last line or
21 consent of theirs exhaustively addressed and how much
22 work we do.

1 MS. KRAMER: But there's another reason for
2 questioning as well, and that is, because once that
3 report comes out, if the press contacts anybody and
4 says, well, what did you mean in that report, what are
5 you going to say; well, I don't know, I wasn't on that
6 committee? Well, you signed it.

7 DR. MIKE: I propose -- telling them that.

8 MS. KRAMER: Well, fine. Okay.

9 CHAIRMAN MURRAY: But it depends. I would
10 also feel comfortable in saying that I signed that
11 because I agreed with the conclusions and the
12 rationales, but the people who worked most on it were
13 the people from the Human Subjects Committee.

14 MS. KRAMER: Okay.

15 CHAIRMAN MURRAY: I would have no problem
16 saying that.

17 MR. HOLTZMAN: In terms of the writing of the
18 report, if we're looking at a certain date and starting
19 to look backwards, where do you need to be when, and
20 are there things you feel you can start on already, or
21 not? I think to the extent we can be helpful in you
22 sort of doing the backwards -- chart --

1 DR. HANNA: I think probably at this point,
2 and I apologize, I had to run over to the other
3 subcommittee to hear a presentation so I don't know
4 what you just went through, but I'm assuming that --

5 MR. HOLTZMAN: We voted you'd have the draft
6 by the Friday after Thanksgiving.

7 (Laughter)

8 DR. HANNA: I think I have a sense of where
9 you're going. I'm assuming that what you're saying is
10 that at your December meeting you're actually going to
11 try and do a straw vote of sorts, or at least get a
12 sense of what your recommendations are.

13 So what I can be doing in the meantime is
14 going through all of the materials you have, your
15 commission papers, and trying to indicate what is
16 coming out of those that is supportive --

17 DR. GREIDER: But it's not just the commission
18 papers, but also the transcripts, because a lot of the
19 stuff that we've been talking about, like that --

20 DR. HANNA: Oh, absolutely. I mean, we all
21 know that the commission papers are going to be
22 published separately in a separate volume.

1 DR. GREIDER: Right.

2 DR. HANNA: But there's material in there you
3 want to include, or I'm assuming you want to include in
4 the report. So I think in the next few weeks before
5 you reconvene, that's the best I can do, and start
6 thinking about drafting your framework as an
7 explanation of how you're going to maybe -- that's the
8 one thing I can get started on.

9 DR. GREIDER: That would be great.

10 DR. HANNA: It's just by working with Zeke's
11 tables and boxes and try and turn that into text.

12 DR. EMANUEL: That may actually be most
13 helpful for us before the December meeting.

14 DR. HANNA: I'll have to find out how quickly
15 the transcripts are going to be available from this
16 meeting.

17 DR. COX: And it doesn't mean just deleting
18 the lines and leaving it that way.

19 (Laughter)

20 DR. HANNA: Larry, that's an old OTA trick.

21 (Laughter)

22 CHAIRMAN MURRAY: It's 3:30 and people have to

1 get their taxis, myself included.

2 Are there any urgent last matters?

3 DR. EMANUEL: I second the motion that we have
4 as much pre-time to hash this out.

5 CHAIRMAN MURRAY: It should all be. I mean,
6 we're not going to have any paper reports, as far as
7 I'm concerned. It's going to be talking about the
8 issues. If you have any thoughts about how to
9 structure this, do we need half the data to do this,
10 are there two or three other urgent issues, please let
11 me know preferably by Tuesday. So think about it.

12 MR. HOLTZMAN: Kathi, could you re-send out
13 the table of contents for the report?

14 DR. MIKE: The 9th meeting is going to be
15 solely genetics, right, because the other people are
16 meeting on a separate --

17 CHAIRMAN MURRAY: That's right. That's right.
18 We've invited them, and I hope many of them come. But
19 --

20 DR. MIKE: Just to observe, not to --
21 (Laughter)

22 CHAIRMAN MURRAY: To take note of our

1 brilliance.

2 MS. KRAMER: Tom, maybe you ought to send out
3 a notice to the other commissioners that, for those
4 with a particular concern about our upcoming report,
5 would they please make an effort to come.

6 CHAIRMAN MURRAY: I thought I said that.

7 MS. KRAMER: Okay.

8 CHAIRMAN MURRAY: The meeting is adjourned.

11

12

13 CERTIFICATE

14 This is to certify that the foregoing
15 proceedings of a meeting of the National Bioethics
16 Advisory Commission, Genetics Subcommittee, held on
17 November 23, 1997, were transcribed as herein appears,
18 and this is the original of transcript thereof.

19

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21 SONIA GONZALES

22 Court Reporter

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