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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.

APPEARANCES:

GENETICS SUBCOMMITTEE

THOMAS H. MURRAY, Ph.D.

MR. STEPHEN H. HOLTZMAN

MS. HENRIETTA HYATT-KNORR

CAROL WIDNEY GREIDER, Ph.D.

MS. RACHEL LEVINSON

EZEKIEL J. EMANUEL, M.D., Ph.D.

KATHI HANNA, Ph.D.

MOFFITT REPORTING ASSOCIATES  
(301) 390-5150

MS. BETTE O. KRAMER

LAWRENCE H. MIIKE, M.D., J.D.

DAVID R. COX, M.D., Ph.D.

ALSO PRESENT:

MS. DANA KARR  
Center for Health Policy Studies

MS. PATRICIA NORRIS

ELISA EISEMAN, Ph.D.  
Critical Technologies Institute  
Rand

JAMES WELLS, Ph.D.

MR. SEAN SIMON

MS. SHERI ALPERT

ROBERT WEIR, Ph.D.  
University of Iowa

MARK SOBEL, M.D., Ph.D.  
National Cancer Institute

FRANCES PITLICK, Ph.D.  
American Society for Investigative  
Pathology

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P R O C E E D I N G S

WELCOME

By Thomas Murray, Ph.D.

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

Elisa, please.

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

CHAIRMAN MURRAY: That's it.

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TISSUE SAMPLES AND SAMPLING

By Elisa Eiseman, Ph.D.

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

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

I just wanted to highlight a few things that I found while I was doing the report. The first, is I thought I would highlight the biggest institutions that 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. MIIKE:  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. MIIKE: 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. MIIKE: 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. MIIKE: 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. MIIKE: 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-0.

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. MIIKE: 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. MIIKE: 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. MIIKE: 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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AFTER RECESS

(9:55 a.m.)

CHAIRMAN MURRAY: Let's reconvene.

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

Sheri?

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PRIVACY AND THE GENETIC ANALYSIS

OF STORED TISSUE: UPDATE

By Ms. Sheri Alpert

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

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. MIIKE: 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. MIIKE: 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. MIIKE: 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. MIIKE: 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. MIIKE: 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. MIIKE: 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. MIIKE: 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. MIIKE: 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. MIIKE: 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. MIIKE: 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 tentative 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.

16

17

18

19

20

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. MIIKE: 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. MIIKE: 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. MIIKE: 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. MIIKE: 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.

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## ONE-WAY TRANSFER OF TISSUE INFORMATION: COMMENTARY

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

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DR. SOBEL: Fran and I prepared some preliminary flow sheets, which I'll send down on both sides.

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CHAIRMAN MURRAY: Mark, for the record, could you just explain what you've done.

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DR. SOBEL: Yes. We were asked to really expand and comment on the proposal that Zeke made at the last meeting concerning the one-way track, so in essence we're talking about the opposite, in a sense, of what Dr. Weir just talked about and we are trying to liberalize policies for the use of tissue and anonymization. I have overheads to go with the written material.

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22

So we really want to think about ways in which we could maximize use of this so-called one-way track and we started with certain basic principles which, if you'll see at the bottom, really have been adapted, 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. MIIKE: 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. MIIKE: 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 Holkman'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

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(1:40 p.m.)

11

DISCUSSION OF RECOMMENDATIONS/POLICIES ON THE

12

TISSUE SAMPLES ISSUE

13

CHAIRMAN MURRAY: We're reconvening now the

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meeting of the Genetics Subcommittee. We still have

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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 untemplated 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 untemplated  
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. MIIKE: 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 identifiable.

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. MIIKE: 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. MIIKE: There are problems with that.

13 DR. EMANUEL: Well, as we heard from BRCA --

14 DR. MIIKE: 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 peopleglom 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 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. MIIKE:  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 a go, 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. MIIKE: 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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#### 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. MIIKE: 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 prevalency 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. MIIKE: 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. MIIKE: 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. MIIKE: 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. MIIKE: You know, they're coming out with  
22 two reports.

1           CHAIRMAN MURRAY: Yes.

2           DR. MIIKE: 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. MIIKE: 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. MIIKE: -- 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. MIIKE: 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. MIIKE: 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. MIIKE: 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.

9 (Whereupon, at 3:30 p.m., the meeting was  
10 concluded.)

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C E R T I F I C A T E

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SONIA GONZALES

Court Reporter

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