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42nd MEETING

NATIONAL BIOETHICS ADVISORY COMMISSION

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P R O C E E D I N G S
ETHICAL AND POLICY ISSUES IN THE OVERSIGHT
OF HUMAN SUBJECTS RESEARCH
PANEL IV: IDENTIFICATION AND
ASSESSMENT RISK AND BENEFIT

DR. SHAPIRO: Marjorie?

DR. SPEERS: We would like to begin with our fourth panel under the topic of our oversight project. This panel is addressing issues related to the identification and assessment of risk and benefit in research.

Dr. Ernest Prentice will be presenting his paper that we have commissioned from him, which is entitled "Institutional Review Board Assessment of Risks and Benefits Associated with Research."

Just to remind you that we had originally commissioned two papers. One paper was to deal with philosophical issues. The other paper was to deal with practical issues. Dr. Prentice is going to be presenting from a practical perspective, from that of an IRB chair or co-chair in his case but with many years of experience of looking at how IRBs examine risk and benefit and the risk/benefit ratio.

Thank you.

ERNEST D. PRENTICE, Ph.D.,
ASSOCIATE DEAN FOR RESEARCH,

1 CO-CHAIR, IRB OFFICE OF REGULATORY AFFAIRS,
2 UNIVERSITY OF NEBRASKA MEDICAL CENTER

3 DR. PRENTICE: Well, good morning, Mr.
4 Chairman, commissioners, IRB colleagues and public
5 representatives. If I may, I would like to address
6 the commission from up close to the screen.

7 DR. SHAPIRO: By all means, whatever is
8 most convenient for you.

9 (Slide.)

10 DR. PRENTICE: As you know, the title of
11 this paper is "IRB Assessment of Risk and Benefits
12 Associated with Research," and I would like to thank
13 the commission for the privilege of writing this
14 paper.

15 I would also like to acknowledge my
16 colleague, Dr. Bruce, Gordon, who is co-chair of the
17 IRB, who assisted me with this authorship.

18 (Slide.)

19 I believe that this is the IRB's cardinal
20 charge: To determine that the risks to subjects are
21 minimized and are reasonable in relationship to
22 anticipated benefits.

23 (Slide.)

24 And to accomplish this charge we need to
25 ask the question how should an IRB assess the risks
26 and benefits associated with research.

27 (Slide.)

1 There are seven basic tasks that an IRB
2 should perform.

3 First, to identify the risks, quantify the
4 risks, classify the research utilizing this risk
5 threshold called minimal risk, ensure that risks are
6 minimized, identify the benefits, perform a risk
7 benefit analysis and perform ongoing assessment
8 after the research is approved. So I am going to be
9 talking very briefly about each of these and they
10 are reflected in the paper.

11 (Slide.)

12 First, identification and assessment of
13 research risks. That is -- look at that.

14 (Slide.)

15 What is the definition of risk in a
16 research context? In order to address this issue we
17 need to go back to a medical malpractice case,
18 Canterbury versus Spence, that established the
19 reasonable person standard. So a material risk is
20 one that a reasonable person, in what the physician
21 knows or should know to be in the patient's
22 position, would likely consider to be important in
23 deciding do I want to participate in this research
24 or not or rather in the therapy or not.

25 (Slide.)

26 Now the National Commission, of course,
27 reviewed this particular case and they felt that the

1 reasonable person standard was not sufficient for
2 research participation so they established what is
3 called a reasonable volunteer standard, i.e. the
4 research subject being, in essence, a volunteer who
5 may want to know a lot more about the risks
6 associated with research than they would if they
7 were simply trying to decide whether or not to
8 participate in a therapeutic intervention that is
9 considered standard.

10 (Slide.)

11 So if we take the reasonable volunteer
12 standard and we incorporate that into the definition
13 of risk, we come up with something like this. A
14 risk is a potential harm, discomfort or
15 inconvenience that a reasonable volunteer, in what
16 the investigator knows or should know to be the
17 subject's position, would likely consider
18 significant.

19 So we recommend on our IRB that we utilize
20 a reasonable volunteer standard even though this is
21 not reflected as such in the federal regulations.

22 (Slide.)

23 We believe that IRB members, and certainly
24 investigators, should identify and assess the
25 importance of research risks from both a scientific
26 perspective, and by placing themselves, insofar as
27 possible, in the average subject's position and this

1 is not always easy. So you need to take a look at
2 the protocol, look at the eligibility criteria and
3 try to place yourself in the position of a subject
4 in that protocol.

5 For example, let's say an investigator is
6 doing a cardiac risk study and they are looking for
7 volunteers that may have a certain profile that
8 would lead them to be susceptible to coronary
9 events. Well, this might be an example of one such
10 couple.

11 (Slide.)

12 I like to show this slide. It is kind of
13 humorous but the fact of the matter is that, while
14 we may not agree with this kind of lifestyle, it may
15 not reflect our own lifestyle, the fact of the
16 matter is that the investigator and the IRB members
17 should look at the lifestyle of the perspective
18 subjects and review risks from their perspective.
19 In this case probably even getting up and moving may
20 be risky.

21 (Slide.)

22 Now there are five general categories of
23 risk. The physical, the psychological, the social,
24 the economic and the legal. Physical risks are
25 usually easier to identify. I am not going to
26 address those. Psychological risks are often more
27 nebulous.

1 And let me just give you one example. In
2 many clinical protocols, there are quality of life
3 surveys attached to the clinical protocol. These
4 quality of life surveys contain invasive, sensitive
5 questions about lifestyle, the effect of the therapy
6 on lifestyle and family dynamics. In many cases,
7 there are risks associated with such surveys but
8 they are not adequately addressed by the
9 investigator and often they are overlooked by the
10 IRB.

11 We heard yesterday about social risks, such
12 as stigmatization associated with a community based
13 research. There are economic risks and there are
14 even legal risks that are addressed in the paper.

15 (Slide.)

16 Now this is what I refer to as a research
17 risk umbrella and here again we see the five
18 categories of risk and under this umbrella we also
19 have inconvenience and discomfort. Sometimes we
20 tend to ignore the fact that research projects may
21 inconvenience subjects. They may have discomfort,
22 but these inconveniences or discomforts do not rise
23 to the level of a harm, and it is easy to overlook
24 such.

25 For example, let's say a protocol involves
26 asking a research subject to undergo an MRI. Well,
27 anybody who has been in an MRI tube knows that you

1 are in this little tube and you have got to lie down
2 and you have got to be very still and you hear this
3 knocking noise, and certainly it is inconvenient, it
4 is uncomfortable, and in some cases, if you are
5 claustrophobic, it is going to rise to a level of
6 harm.

7 So we need to be careful that we do not
8 overlook this aspect of the research risk umbrella.

9 PROFESSOR CAPRON: Dr. Prentice?

10 DR. PRENTICE: Yes. Just to clarify, those
11 three levels apply across the five types, is that
12 what you are saying?

13 DR. PRENTICE: More or less but probably
14 more in the physical category than in some of the
15 other categories. For example --

16 PROFESSOR CAPRON: This is an interaction.
17 This is a matrix.

18 DR. PRENTICE: Yes.

19 PROFESSOR CAPRON: Now IRBs often encounter
20 difficulty in trying to distinguish risks when
21 research is combined with performed concomitantly
22 with therapy.

23 (Slide.)

24 So the question arises, when research is
25 combined with standard therapy, the subject would
26 receive, regardless of participation in the study,
27 what risks should be considered by the IRB, what

1 risks should be disclosed to the perspective
2 subjects?

3 (Slide.)

4 Well, we know that the risk of standard
5 therapy the patient would undergo independent, and I
6 stress independent, of their participation in the
7 research usually, not always but usually need not be
8 considered by the IRB.

9 (Slide.)

10 For example, let's take a study where an
11 investigator wants to perform hemodynamic
12 measurements during standard open heart surgery.
13 Well, in this particular case, usually only the
14 risks of the measurements are germane to the IRB's
15 review, not the risks of the open heart surgery.

16 (Slide.)

17 Let's take another example. A PET scan is
18 administered to schizophrenic patients and they are
19 already taking an FDA approved drug in order to
20 assess the drug's effect on brain metabolism. So
21 the research is the PET scan. The patients are
22 already taking the drug so only the risks of the PET
23 scan need to be considered by the IRB, not the risks
24 of the drug.

25 (Slide.)

26 However, if we change the scenario around a
27 little bit, and we say schizophrenic patients will

1 be given an FDA approved drug, they are not taking
2 it yet but they are going to be given an FDA
3 approved drug, even though the focus of the research
4 is not the efficacy of the drug, our IRB would
5 contend that you would include the drug in the
6 risk/benefit analysis. But again that is not
7 always clear, is it?

8 (Slide.)

9 Now after the risks are identified, we
10 believe it is necessary to undergo risk
11 quantification looking at the probability of
12 occurrence, the magnitude of severity and the
13 reversibility of any given harm, and quantify that
14 if that is possible. That is not always possible
15 but where it is possible it should be done.

16 We ask our investigators to provide us with
17 data to that effect so that we can more fully
18 evaluate the risks. Of course, some risks are
19 simply unknown. They are unexpected.

20 (Slide.)

21 This is a humorous slide. He choked on a
22 placebo. But it has a serious note and the serious
23 note is this: The fact of the matter is that, in
24 research we do not always know what the risks will
25 be, and we need to advise prospective subjects of
26 that fact.

27 (Slide.)

1 Now this is a very important part of the
2 assessment of risk -- classifying research according
3 to the minimal risk standard.

4 (Slide.)

5 The way in which an IRB interprets and
6 applies the minimal risk standard, which is a
7 threshold level of risk, is a major determinate in
8 establishing necessary protection for human
9 subjects. Under current regulations it is used to
10 establish whether or not a research protocol can be
11 reviewed by the expedited review method, whether or
12 not informed consent can be waived, whether or not
13 additional protections are necessary for vulnerable
14 populations such as children. So it is a very,
15 very important consideration.

16 (Slide.)

17 Now this is the definition of minimal risk
18 in the current regulations. Minimal risk means that
19 the probability and magnitude of harm, or discomfort
20 anticipated in the research, are not greater than
21 those ordinarily encountered in daily life or during
22 the performance of routine physical and
23 psychological examinations or tests.

24 Now what does daily life mean? Is it the
25 daily life of a healthy person? Is it the daily
26 life of a fireman or a policeman? Is it the daily
27 life of somebody who lives in New York or somebody

1 who lives in rural Iowa? What are the risks of
2 daily life? It is not easy to identify.

3 (Slide.)

4 In the preamble to the regulations, the
5 framers of the regulations considered whether or not
6 to tie minimal risk to the daily life of a healthy
7 person, and they chose instead to reword the final
8 regulations to reflect the intention that the risks
9 of harm encountered in daily life means those risks
10 encountered in the daily lives of the subjects of
11 the research. That is a very, very important
12 distinction.

13 (Slide.)

14 However, OPRR's current interpretation of
15 the definition of minimal risk does not consider a
16 relative standard. Rather OPRR has adopted an
17 absolute standard which makes a big difference. So
18 if we utilize the absolute standard and kind of
19 qualify what minimal risk means in that context, it
20 means that the harm or discomfort anticipated in the
21 research are not greater in and of themselves than
22 those ordinarily encountered in the daily life of
23 normal healthy subjects. Normal healthy subjects or
24 during the performance of normal routine tests that
25 normal healthy subjects might undergo.

26 (Slide.)

27 So, for example, a normal healthy

1 individual obviously would never have a bone marrow
2 biopsy. That clearly would be a greater than
3 minimal risk procedure. However, utilizing a
4 relative standard, a patient that has leukemia that
5 undergoes multiple bone marrow biopsies, one
6 additional bone marrow biopsy for nontherapeutic
7 reasons might be considered to be minimal risk under
8 a relative standard so it makes a big difference how
9 you interpret minimal risk in terms of protecting
10 human subjects.

11 (Slide.)

12 The next category is minimization of risk.

13 (Slide.)

14 The federal regulations require that risk
15 to subjects be minimized utilizing procedures which
16 are consistent with sound research design. I am not
17 going to get into this now, but sometimes, in some
18 cases, you have got a lot of conflict between the
19 attempt by the IRB to minimize risk and sound
20 research design. What comes to mind immediately is
21 placebo controlled clinical trials. You are not
22 minimizing the risk utilizing a placebo control in
23 many circumstances but it may be the best scientific
24 design so this is a problem that IRBs face.

25 (Slide.)

26 So how do we minimize risk? Well, there
27 are a whole lot of things we can do. Certainly the

1 study personnel have got to be qualified. We need
2 to have additional protections for any populations
3 that are vulnerable. We need to substitute
4 procedures, whenever possible, that have less risk
5 or are going to be performed as part of the
6 patient's routine care. We need to ensure that
7 subjects are appropriately monitored, and that
8 adverse events are promptly reported to the IRB and
9 the sponsor.

10 We certainly heard a lot about that
11 relative to the gene therapy problems lately.
12 Subject withdrawal criteria are appropriate and the
13 timely treatment plan is in place. I would contend
14 that the IRB must ensure that all of these factors
15 are considered during their review.

16 (Slide.)

17 Identification and assessment of benefits
18 associated with research. What is the definition of
19 benefit in a research context? Well, definition of
20 benefit means that it is a valued or desirable
21 outcome resulting from the research, a direct result
22 from the research. And there are two types of
23 benefits, direct benefit to the subject, and benefit
24 to society. Certainly in all research there must be
25 benefit to society because after all, the definition
26 of research is activities designed to increase
27 generalizable knowledge. But there is not always

1 direct benefit to the subject in research.

2 (Slide.)

3 Now after the benefits are identified, and
4 they are maximized to the greatest extent possible
5 through appropriate protocol design, the IRB engages
6 in what is referred to as a risk/benefit analysis.

7 (Slide.)

8 Federal regulations require that risks to
9 subjects be reasonable, reasonable, in relation to
10 anticipated benefits, if any, and the importance of
11 the knowledge that may reasonably be expected to
12 result. These are interesting words, reasonable and
13 reasonably.

14 (Slide.)

15 Now you might ask, well, how does an IRB
16 perform a risk/benefit assessment. Well, it would
17 be nice if we had a computer program, we could plug
18 in some numbers on the risk side, some numbers on
19 the benefit side and say, okay, it is -- we can
20 justify the research. That is not the case and it
21 is never going to be the case.

22 (Slide.)

23 It is much like the every day decisions
24 that you and I make. We go down to the local greasy
25 spoon for lunch, we take a look at the menu, we say,
26 "Okay, what am I going to have for lunch today? Am
27 I going to have the tuna salad?" The risk of the

1 tuna salad made with water packed albacore tuna and
2 no mayo is that it tastes horrible.

3 (Laughter.)

4 Benefits: It is healthy. "Or do I have
5 the cheeseburger and increase my risk for
6 cardiovascular disease." That is the risk. The
7 benefit is most people like cheeseburgers. I guess
8 fortunately for McDonald's, Burger King, Pizza Hut
9 and America's cardiologists most Americans make the
10 wrong decision most of the time but we hope that
11 IRBs try to make the right decision most of the
12 time. So it is a judgment call.

13 (Slide.)

14 But not all risk/benefit analyses are easy.
15 Some are very complex.

16 (Slide.)

17 For example, the Utah artificial heart
18 experiment, December 1st, 1982.

19 (Slide.)

20 This is William Devries performing the
21 first implantation of an artificial heart in Dr.
22 Barney Clark, a 72 year old dentist suffering from
23 cardiac myopathy. He had a cardiac output of about
24 one liter. He was dying. There were no
25 alternatives. There were no human hearts available
26 so they implanted this artificial heart. He lived
27 for 112 days tethered to a life support. Then he

1 died of multiple organ failure.

2 (Slide.)

3 And ethicists immediately began debating
4 whether or not the risk/benefit relationship of this
5 research was appropriate and we do not have time to
6 go into all of these issues. I would just simply
7 draw your attention to this one. Was the
8 risk/benefit relationship acceptable from the
9 individual as well as societal perspectives?

10 The societal perspectives become a very
11 important consideration, much more so now than back
12 in the early '80s because of such clinical
13 procedures as xenotransplantation.

14 (Slide.)

15 Now we need to remember in clinical
16 research, there are not guaranteed benefits. It
17 would be nice if there were guaranteed benefits, but
18 there simply are not.

19 (Slide.)

20 This is a slide showing Louis Washkansky
21 who received the first human to human heart
22 transplant December 15th, 1967. He lived for 17
23 days.

24 (Slide.)

25 Now if we had stopped heart transplants in
26 the 1960s when the results were dismal, we would not
27 have been able to give over 2,300 people last year,

1 a new heart and a new lease on life. So I think
2 that IRBs must remember that.

3 (Slide.)

4 Then, of course, IRBs have to perform an
5 ongoing assessment of research after the research
6 has begun. That is called monitoring and continuing
7 review. So you have got to ensure that the
8 risk/benefit relationship of the research continues
9 to be justified.

10 (Slide.)

11 And, of course, we know that IRBs have been
12 criticized by federal regulators for not performing
13 substantive and meaningful continuing review. That
14 is a major problem for IRBs.

15 (Slide.)

16 I have some recommendations very briefly.
17 They are in the report. I am just going to go
18 through these very, very quickly. IRBs need to
19 perform a thorough evaluation of research risks and
20 they need to also consider risks that do not rise to
21 the level of harm, and they need to ask the
22 investigator the right questions, and use the
23 investigator to provide the necessary information
24 that they need to evaluate the protocol.

25 (Slide.)

26 We need more guidance concerning how we
27 mesh consideration of risk related to therapy versus

1 research. That is not clear. That is probably why
2 we have 20 page consent documents these days.

3 (Slide.)

4 Investigators should be required to
5 quantify the risks. It is not a requirement right
6 now. I do not know how many IRBs actually ask their
7 investigators to quantify risks, but without
8 quantification, if possible, you have no handle on
9 the significance of the risk from either the IRB's
10 perspective or subject's perspective.

11 (Slide.)

12 It seems to us that a relative standard of
13 minimal risk is appropriate for research involving
14 competent adults. Whereas an absolute standard with
15 some limited relative may be more appropriate for
16 vulnerable subjects, such as children in research.

17 (Slide.)

18 And we believe that a mechanism should
19 exist for IRBs to share with other reviewing IRBs
20 significant findings which negatively impact the
21 risk/benefit relationship of the research. We have
22 taken it upon ourselves, when we have encountered a
23 protocol that is a multicenter protocol that
24 contains a number of significant ethical or
25 regulatory problems, to contact other IRBs about our
26 concerns.

27 (Slide.)

1 We think that there should be more DSMBs.
2 They ought to be mandated. I do not know who is
3 going to pay for them. I do not know where we are
4 going to find qualified people to serve on them but
5 IRBs need help. You cannot expect IRBs to act as
6 DSMBs. We are not qualified.

7 (Slide.)

8 And, finally, the protection of human
9 subjects is clearly an absolute obligation and it is
10 an obligation borne by the investigator first, the
11 institution, the IRB, and the sponsor with
12 enforcement by FDA and OHRP.

13 (Slide.)

14 I think it is clear we can and should do
15 better. Thank you for inviting me and I will return
16 to the podium.

17 DR. SHAPIRO: Well, thank you very much.

18 I think we can turn -- whoever is in charge
19 of the lights, we can turn them up. Maybe no one is
20 in charge of the lights.

21 Marjorie, do you want to say anything
22 before we go to questions from commissioners?

23 DR. SPEERS: No.

24 DISCUSSION WITH COMMISSIONERS

25 DR. SHAPIRO: Okay. Let's now go to
26 questions and our comments from commissioners.
27 Alex, and then Larry.

1 PROFESSOR CAPRON: A question of
2 clarification, Dr. Prentice. You made the very
3 important point, at the end as part of your
4 recommendations, that the IRB should contact other
5 IRBs with information. Have you run into problems
6 with assertions of the proprietary nature of the
7 results of research, including the risks or harms, or
8 discomforts that turn up?

9 DR. PRENTICE: No, we have not. As you
10 know, the regulations allow IRBs to seek
11 consultation. That consultation can come from
12 anywhere, including other IRBs. So we have not had
13 a problem in contacting other IRBs and sharing some
14 of our concerns and asking them to provide us with
15 their considerations relative to the review of a
16 protocol.

17 It does not mean that they are going to
18 change their minds. As a matter of fact, the last
19 time that we had this problem, we had a multicenter
20 protocol that was already up and running at five
21 children's hospitals. We felt it was an
22 inappropriate protocol. We chose not to approve the
23 scientific design. We wanted to alter the
24 scientific design. I was quite surprised that the
25 lead center agreed to allow the scientific design to
26 be altered at our site. We felt that this was an
27 appropriate thing to do.

1 PROFESSOR CAPRON: Are you referring then
2 in that recommendation number 5 only to prospective
3 issues? I had taken you to be also referring to
4 things which occur during the course of research,
5 where adverse events or the failure of an
6 intervention to achieve the results that were
7 predicted on the benefit side, would be information
8 that you would share with other IRBs. Do I
9 understand that as part of your recommendation?

10 DR. PRENTICE: I would say it is more
11 applied to prospective research. I would think that
12 the sponsor, whether that be a pharmaceutical
13 company or NIH, would be -- or a co-op group, would
14 be in a much better position to discuss those kinds
15 of issues and share those kinds of findings with
16 IRBs as part of the ongoing review of research. So
17 I am really referring to the -- at the initial
18 stages of IRB review, where an IRB is struggling to
19 decide is this research something that should be
20 approved.

21 DR. SHAPIRO: Thank you.

22 Larry?

23 DR. MIIKE: I have got a couple of
24 questions. One is on the exempted research and the
25 other one is about a consent process.

26 I assume that in your institution, your IRB
27 is not the one that decides what is exempt or not,

1 and somebody else -- some administrator does that.
2 My question is twofold on that. One is that, would
3 you think it would be better decided by the IRB and,
4 number two, is there a common misunderstanding about
5 what is exempt or not from the experience from your
6 side?

7 My informed consent question is triggered
8 by your statement about a complicated issue
9 requiring a 20 page informed consent document. We
10 have heard from others that some people use sort of
11 a little questionnaire to see whether prospective
12 subjects really understand that they are getting
13 into and whether that might be a useful mechanism in
14 some circumstances.

15 DR. PRENTICE: All right. Let me address
16 the first question. I do not think that the IRB
17 itself should determine whether or not a research
18 protocol is exempt. I think that competent IRB
19 staff are perfectly capable of performing that
20 particular function.

21 And, yes, there is a misconception as to
22 what is exempt. Clearly when I have been on site
23 visits and reviewed files of exempt protocols, they
24 have not been exempt.

25 The exempt categories are problematic in
26 some cases. Let me give you an example. Survey
27 research, no matter how sensitive the survey is, if

1 there are no subject identifiers, it is exempt. Now
2 I would contend that a sensitive survey involving
3 sexual abuse, alcohol, drug abuse, spousal abuse, et
4 cetera, even without identifiers, contains a
5 significant psychological risk from the first moment
6 that the subject opens up the questionnaire booklet
7 and encounters that first question but, that is
8 exempt. And technically there is no requirement for
9 informed consent.

10 Our IRB would never exempt such a protocol.
11 As a matter of fact, it goes to the full IRB,
12 requires full informed consent but perhaps not a
13 signed consent form for confidentiality measures.

14 So I think that the exempt categories need
15 to be looked at again.

16 As far as your second question on concern
17 relative to informed consent, we have over 1,000
18 research protocols and we are small compared to
19 Minnesota or UCLA. It is not practical to
20 administer a written examination to subjects but you
21 do need to assess comprehension. We ask our
22 investigators to specify in their application how
23 they will assess comprehension.

24 We have only had two that have used a
25 written examination. Most of our investigators
26 question the prospective subjects with regard to
27 their understanding, or they ask the subject to

1 reiterate in their own words their understanding of
2 the research, and that is documented in the record.
3 That is what we expect our investigators to do.

4 DR. SHAPIRO: Thank you.

5 Diane?

6 DR. SCOTT-JONES: I have a couple of
7 questions about research with children. In your
8 recommendations you recommend an absolute standard
9 for risks in research with children and I agree that
10 is very important. You also point out to us around
11 page 9 of your paper that there is a lot of
12 ambiguity and conflicting messages in the guidelines
13 for research with children, and I would like you to
14 say a little bit more about that and say what
15 standard you think is applied usually in the review
16 of research with children. Is it the absolute or
17 the relative one?

18 And then my second question is whether you
19 have given any thought on research with adolescents
20 as distinct from younger children. Near the end of
21 adolescence, the individual becomes able to consent
22 for himself or herself. So have you thought how we
23 might handle research with adolescents differently
24 from research with children?

25 DR. PRENTICE: Let me begin with the first
26 part of your question.

27 As you know, the regulations provide

1 additional protections for children as part of
2 subpart D and there are four categories of research
3 in subpart D. There is 404, 405, 406 and 407.

4 404 is research not involving more than
5 minimal risk, and it is real easy to satisfy the
6 requirements if the research involves no more than
7 minimal risk assuming that you are correctly
8 interpreting and applying that standard.

9 The 405 category requires direct benefit to
10 the individual subjects. So you can have greater
11 than minimal risk but direct benefit to individual
12 subjects and the requirements are also easy to
13 satisfy.

14 It is when you have more than minimal risk,
15 no direct benefit to the child, that is 406. And
16 then you have four requirements that must be met.
17 And the first requirement, which is related to
18 minimal risk, is there cannot be more than a minor
19 increase over minimal risk. What is -- first of
20 all, what is minimal risk? What is a minor increase
21 over minimal risk?

22 I have reviewed protocols involving
23 pediatric research where investigators and IRBs have
24 classified the research as minimal risk, no direct
25 benefit, and clearly it is greater than minimal risk
26 and no prospect of direct benefit and it could not
27 qualify under 406. They do not understand Subpart

1 D. They are not capable of interpreting Subpart D
2 and they are not given sufficient guidance with
3 regard to the interpretation of Subpart D.

4 Perhaps you read in the New York Times
5 about the fenfluramine challenge studies at Mt.
6 Sinai. This was a situation where normal kids were
7 given a low monoamine diet. They then underwent a
8 fenfluramine challenge, which is a compound related
9 to Phen/Fen which was taken off the market. Then
10 they underwent serial blood sampling in a hospital.

11 Now these were normal controls. Obviously,
12 no direct benefit whatsoever. The IRB classified
13 the protocol as minimal risk. I would contend that
14 fasting, hospitalization, low monoamine diet,
15 fenfluramine challenge, serial blood sampling, and
16 exhaustive psychological and educational testing, is
17 clearly more than minimal risk.

18 So, I mean, that protocol was not
19 approvable under the regulations.

20 Your comment with regard to research
21 involving children versus adolescents. Well,
22 clearly, as kids develop, they are also developing
23 their autonomy. They become more like adults and
24 less like children. So although Subpart D would
25 certainly apply to adolescents, perhaps it would
26 apply less so than it would to younger children.

27 DR. SHAPIRO: Yes, Diane?

1 DR. SCOTT-JONES: For the fenfluramine
2 study that you described, could you say a little bit
3 about what the sample -- what was the sample like
4 and was there parental consent?

5 DR. PRENTICE: The fenfluramine challenge
6 study that was really problematic was the one that
7 was conducted at Mt. Sinai and CUNY. And it
8 involved ADHD kids with normal controls. And, yes,
9 there was parental consent for both samples.

10 PROFESSOR CAPRON: Was that the study that
11 involved the siblings of children?

12 DR. PRENTICE: That was --

13 PROFESSOR CAPRON: Or was that a separate
14 study?

15 DR. PRENTICE: That was a second study in a
16 New York Psychiatric Institution. That involved --
17 they were not ADHD kids. They were kids who were
18 adjudicated as delinquents.

19 PROFESSOR CAPRON: I thought they were the
20 siblings who were put at risk because of having a
21 sibling who had been adjudicated.

22 DR. PRENTICE: Correct. That is correct.

23 DR. SHAPIRO: Diane?

24 DR. SCOTT-JONES: And were they also
25 African American and Puerto Rican?

26 DR. PRENTICE: Yes.

27 DR. SHAPIRO: Eric?

1 DR. MESLIN: Dr. Prentice, I really enjoyed
2 reading your paper and staff will give you some
3 further comments.

4 I was wondering, in your presentation you
5 described the process of risk analysis, including
6 identification, and then quantification. But it was
7 not until your recommendations, that you talked
8 about the acceptability of risk and the judgments
9 that IRBs are struggling with, with determining
10 levels of risk and what constitutes acceptable and
11 unacceptable -- while referring to the regulations
12 is admittedly a very difficult place to go, I wonder
13 if you could say a bit about how your IRB struggles
14 with the more subjective nature of assessing the
15 acceptability of a particular level of risk prior to
16 balancing that with some description of benefit?

17 DR. PRENTICE: Let me preface my response
18 to your question by indicating that, in most cases,
19 a risk benefit analysis is not problematic. There
20 is not a big issue or a big question about whether
21 or not the research is approvable. You probably
22 spend a little bit more time on subject selection
23 criteria and the informed consent process than you
24 do on the risk/benefit assessment but sometimes it
25 is very, very problematic and, you know, we have had
26 protocols that have been tabled three times. It has
27 taken four months before they finally get approved

1 because of a risk/benefit assessment issue.

2 And the only thing I can tell you is that
3 good people, who sit on IRBs, struggle with these
4 issues. They bring to the table their own
5 individual knowledge and expertise and moral values
6 and judgments. We encourage them to apply this
7 reasonable volunteer standard and place themselves
8 in a position of the subject. Would they
9 participate in this particular research? Would they
10 accept the risks? And those are the kinds of
11 discussions that would go on, on our IRB, for
12 problematic risk/benefit issues.

13 Ultimately, it becomes a decision that has
14 to be made by the IRB. Now, relative to that
15 decision, I would like to say that we require a two-
16 thirds majority on our IRB to pass a protocol. The
17 regulations only require a simple majority. I would
18 contend that, if you approve a protocol based upon a
19 simple majority, there is something wrong with that
20 protocol.

21 DR. SHAPIRO: Alex?

22 PROFESSOR CAPRON: You have at several
23 points described protocols being approved that you
24 found problematic or actually an outright departure
25 from the intention of the regulations. I wondered
26 what the experience and process you have of knowing
27 about the operations of other IRBs. Is this as

1 someone who -- in other words, from your testimony,
2 besides talking about the University of Nebraska,
3 are you drawing on experience -- extensive
4 experience in reviewing other IRBs' work as a
5 consultant or a person who is called in as a peer to
6 evaluate them?

7 DR. PRENTICE: I have been fortunate to
8 serve as a frequent site visitor on OPRR for cause
9 compliance site visits so I have had an opportunity
10 to review, you know, a lot of IRBs and a lot of
11 problematic cases that precipitated the for cause
12 visit in the first place.

13 I have also been fortunate to be asked to
14 be a consultant to review IRBs across the country.
15 So from that perspective, I have gained a lot of
16 experience, but relative to the problems that we
17 have encountered in reviewing our own protocols,
18 there was one particular protocol involving the
19 administration of growth hormone to children with
20 Turner Syndrome.

21 We felt that protocol was unapprovable
22 because it involved a placebo control which
23 basically meant that kids with Turner Syndrome were
24 going to get injected three times a week with saline
25 for three years. We felt very strongly that that
26 protocol was not approvable under the regulations
27 and it was also not ethical.

1 We turned it down. We received a great
2 deal of pressure from the investigator and from the
3 drug company who literally wrote me a letter and
4 basically said, "Well, yes, the placebo controls
5 will get benefit because the injection of a placebo
6 is a stressor and stressors are known to precipitate
7 growth hormone secretion, therefore the kids are
8 going to grow." I mean that was absolutely
9 ludicrous.

10 So we turned it down. A lot of other IRBs
11 turned it down but I also found out that a
12 significant number of additional IRBs actually
13 approved the protocol, including ultimately the NIH,
14 who -- Jeremy Rifkin filed a petition to halt growth
15 hormone trials at NIH. Perhaps you remember that.

16 And the entire issue of placebo controls in
17 growth hormone studies was analyzed by a NIH panel
18 and they came to the opposite conclusion of our IRB.

19 We happen to disagree with the NIH's
20 conclusion.

21 That is one example. Other examples are we
22 encounter a protocol that has got problems. We find
23 out what other centers are involved and I know all
24 the people that are involved, so I call them up and
25 I say, "Okay. I will call UCLA." And I will say,
26 "What did you do with this protocol? Did you have
27 any problems? Did you approve it? Did you consider

1 this particular concern or that particular concern?"
2 So we engage in a dialogue. I am not suggesting we
3 do this all the time but we do this occasionally.

4 I would like to see more of that done.

5 DR. SHAPIRO: Thank you. Other questions
6 from commissioners?

7 Let me ask -- I have two questions in my
8 mind. One of which you just mentioned as an aside.
9 It sounds to me, from the presentatio,n that at the
10 University of Nebraska where you are, you have
11 really a very thoughtful IRB working very carefully
12 and diligently on all these issues, which is
13 wonderful to hear.

14 I am wondering about how you would
15 characterize the relationship between the IRB, which
16 you are a co-chair, and the investigators. Is this
17 one where investigators are glad and happy and
18 enthusiastic about the help that you offer on one
19 side or is it otherwise?

20 DR. PRENTICE: It is probably all over the
21 place. There are some investigators who love us,
22 appreciate us. And there are other investigators
23 who take my name in vain every day.

24 I believe that IRBs are really in
25 partnership with investigators. I do not believe
26 that we should assume a police role. I do believe
27 that we should assume a partnership role in that we

1 first ask the investigators to make the ethical
2 decisions with regard to how best to protect the
3 rights and welfare of human subjects by asking the
4 right questions.

5 You get the information, you review the
6 information, you obtain the necessary
7 clarifications, and if you are satisfied, you
8 approve the protocol. So what you are doing is, you
9 are signing on to that protocol. You are sharing
10 the responsibility with the investigator. So that
11 is the message that I try to get across to our
12 investigators. We are sharing the responsibility
13 with you.

14 For the most part, our investigators are
15 responsive to that but there are some who are never
16 going to be responsive. They are cowboys and they
17 need to be controlled and that is just the way it
18 is. Those kinds of individuals exist everywhere.

19 DR. SHAPIRO: Let me ask your judgment on
20 another issue which is -- again it may not be
21 central but it is a language issue which has at
22 least puzzled me some.

23 As you pointed out in your recommendation
24 there is lots of language around that either asks us
25 to minimize risk, maximize benefits, and as you
26 clearly understand through your presentation, that
27 this is not a simple matter because you are not

1 simply minimizing risk or not simply maximizing
2 benefits. You are doing something which is looking
3 at both of these things together.

4 I am wondering whether you think it might
5 be useful to try to search for language which asks
6 investigators to minimize risks in some sense
7 subject to certain boundary conditions, that is that
8 the experiment can go ahead, that there cannot be
9 more than maximum amount of risk, rather than just
10 always talking about minimizing risk by itself,
11 which seems to me not really quite to the point.

12 But maybe I have either misstated this or
13 have not been carefully -- have not thoughtfully
14 considered this.

15 DR. PRENTICE: Well, I think that there is
16 one thing I did not point out in my presentation,
17 which I think is appropriately emphasized in the
18 paper, and that is, in clinical research when you
19 perform a risk/benefit assessment, you have also got
20 to consider the alternatives available to the
21 subject in terms of standard therapy.

22 We ask our investigators, when they submit
23 what we refer to as an IRB application, to perform a
24 risk/benefit assessment of the research compared to
25 the risks and benefits associated with standard
26 therapies available to the subject in a nonresearch
27 context.

1 So we think that is a very, very important
2 component of a risk/benefit analysis because, if
3 there is standard therapy available to the
4 prospective subject that offers a more favorable
5 potential outcome, then really it is unethical to
6 approve that particular research and we spent a
7 great deal of time talking about, well, all right,
8 what are the risks, what are the benefits of the
9 research versus what are the risks and what are the
10 benefits of the known standard therapy.

11 You know, I do not have an answer that is
12 really specific to what you are trying to address in
13 the question, because there is no magic formula that
14 we can utilize to figure out how to do this
15 properly. It is just a judgment call and I think
16 that if IRBs approach this from a very, very
17 conscientious perspective, and if investigators do
18 the same, and we work together, then hopefully we
19 will make the correct decision most of the time, but
20 not all of the time.

21 I can tell you now we have approved
22 protocols in the past that we would never approve
23 now, never. We know more now than we did in the
24 past.

25 DR. SHAPIRO: Thank you. Bernie, and then
26 Carol.

27 DR. LO: I want to ask you a question that

1 draws on what is, obviously, your very extensive
2 experience with other IRBs. There has been a lot of
3 criticism about whether IRBs are doing a good job
4 with their task of protecting human subjects and a
5 proposal has been made in many quarters to certify
6 IRBs or IRB members.

7 Can you give us a rough idea if IRBs had to
8 pass a reasonable certification test today what
9 percentage of IRBs, in your view, would pass the
10 first time around?

11 DR. PRENTICE: That is an interesting
12 question. First of all, nobody knows how many IRBs
13 there are in this country. 3,000, 4,000, 5,000. I
14 do not think anybody has a handle on that. Not even
15 FDA. They do not know.

16 I think that -- first of all, let me talk
17 about accreditation. As you know, PRIMR is
18 developing accreditation standards for IRBs. I
19 think that is very, very important.

20 Institutions respond to an accreditation
21 stick. You know, if the Joint Commission is going
22 to come in and accredit our hospital and we have to
23 spend a million dollars to get ready, there is no
24 question we spend the million. All right.

25 If ALAC is going to come in and accredit
26 our animal program and I go to the chancellor and I
27 say, "Look, you know, we need \$100,000 to renovate

1 our animal facilities," the money is there
2 immediately. If I go and ask my chancellor, "I need
3 two more IRB staff because they are overworked, they
4 are overloaded, and we are very concerned about
5 doing the job we need to do," the response is not
6 positive. It is more positive than it used to be,
7 considering the events in the last two years, but it
8 is still not as positive as it should be.

9 So I think accreditation is very important.
10 I think certification of IRB administrators
11 is very, very important because back in the 1980's,
12 early 1980's when I started in this business, an IRB
13 administrator was a secretary, that is it. They
14 were paid as a secretary, viewed as a secretary.
15 That is not the case. IRB administrators are
16 professionals. They need to be recognized as
17 professionals, paid as professionals and certified
18 as professionals. That is an ongoing process that
19 ARENA and PRIMR have initiated beginning next
20 October in San Diego. So I think that is going to
21 be a great boon to ensuring adequate protection of
22 human subjects.

23 I do not think that you need to certify IRB
24 members. That is probably going beyond the pale but
25 I do think that IRB members need to be trained.

26 When I go out on site visits, we ask
27 questions of IRB members. They do not understand

1 the regulations. They do not know what Subpart D
2 is. I have asked pediatricians, who are the
3 representatives of children on IRBs, "How do you
4 review a protocol involving children? How do you
5 apply Subpart D?" Well, they do not know what
6 Subpart D is.

7 When you explain the categories, they do
8 not know what those are.

9 Now I am not suggesting that that is
10 universal but I am suggesting it is a significant
11 gap in knowledge. That is now being corrected by
12 mandatory training enacted by NIH as of October 2nd,
13 which I think is great. That is what we ought to
14 have. Mandatory training of all investigators.

15 Probably the best way to protect human
16 subjects is to ensure that investigators are not
17 only trained, but they are also, more importantly,
18 sensitized to their absolute obligations.

19 DR. SHAPIRO: Thank you.

20 Carol?

21 DR. GREIDER: In some of the material that
22 I have been reading over the past few months, it has
23 become clear that, in addition to protecting human
24 subjects, that there is a certain amount of pressure
25 that IRBs may feel to protect the institution in
26 some, perhaps, legal sort of way.

27 Do you have any comment about whether that

1 is common or any other comments?

2 DR. PRENTICE: Well, first of all, the --
3 it is not the charge of the IRB to protect the
4 institution from liability. However, most IRBs are
5 at least cognizant of legal liabilities associated
6 with certain kinds of protocols, and I do not
7 disagree with them being cognizant.

8 However, I do not think that should be the
9 primary focus of their review. If they have some
10 concerns, they ought to refer their concerns to
11 legal counsel.

12 Certainly we are seeing an increase in the
13 litigation relative to clinical research. I have
14 been fortunate to have served as an expert witness
15 for a number of universities who have been sued for
16 medical malpractice in clinical research cases, that
17 had regulatory compliance considerations. So in
18 other words, the IRB was named in the complaint.

19 I think we are going to see more of that,
20 as time goes on, so I think IRBs need to be
21 cognizant of the fact that, if they perform a
22 thorough complete review according to the
23 regulations, document everything, that is probably
24 providing additional legal protection for the
25 institution, and I do not disagree with doing that.
26 I do, however, disagree with the mountain of
27 paperwork that we are faced with. By dotting every

1 I and crossing every T, it is absolutely enormous.
2 It takes a great deal of time.

3 DR. SHAPIRO: Larry?

4 DR. MIIKE: You mentioned in your prepared
5 talk "ongoing monitoring." From what we have heard,
6 that hardly ever goes on, through no fault of
7 anybody's. Just including -- just not the capacity
8 to do it. And the information that is provided is
9 often useless, in the sense that you get a report on
10 adverse events, but there is no context in the sense
11 that is that a rare thing or is that common. Can
12 you comment about that?

13 DR. PRENTICE: IRBs are supposed to perform
14 ongoing monitoring and probably the most important
15 aspect of ongoing monitoring is to ensure that the
16 risks and benefits of the research remain
17 acceptable. And the occurrence of unexpected
18 adverse events can influence a risk/benefit
19 relationship of the research clearly.

20 There are two kinds of adverse events.
21 There are those that occur within the institution
22 itself. I think that IRBs have to pay particular
23 attention to those kinds of adverse events because
24 they have got to be responsible for their own
25 research subjects. And those are not problematic
26 for most IRBs.

27 What is problematic is the number of

1 external adverse events or IND safety reports that
2 IRBs get. We are getting about close to 3,000
3 external adverse event reports per year. UCLA is
4 getting around 6,000. Minnesota, I know, gets more
5 than we do. And IRBs are supposed to look at every
6 one of these adverse event reports. And we get
7 adverse event reports that are related, or
8 unrelated, or of unknown relationship to the
9 research, that are serious, not serious, expected,
10 unexpected.

11 What are we supposed to do with this? There
12 is no denominator. Okay. There is no numerator.
13 We have no data to evaluate that. IRBs cannot act
14 as DSMBs. We have got to change that system.

15 We use a triage approach to adverse events
16 that come in from the outside. If they are not
17 serious and related, or possibly related and
18 unexpected, we do not review them. But those that
19 meet that category, we ask the investigator to
20 perform a rather lengthy analysis to the best of his
21 or her ability, give this to the IRB, it is
22 prescreened by an IRB events -- or an adverse event
23 subcommittee, and then it is sent to the full IRB
24 for their consideration. That way we can triage the
25 number down to an almost manageable level but we
26 still recognize the fact that we still do not have
27 enough data to be, you know, looking at these.

1 I really think the DSMBs ought to be given
2 IRBs summary reports when they have analyzed
3 aggregate data. Give it to us. Tell us what you
4 think and then let us act. Do not expect us to act
5 on every single individual adverse event. That is
6 not productive.

7 DR. SHAPIRO: Thank you. Any other
8 comments?

9 Well, let me thank you very much, not only
10 for the paper, but for coming here today. Please
11 give our thanks, also, to your colleague, Professor
12 Gordon, on this. We really very much appreciate the
13 effort. Thank you very much for coming.

14 DR. PRENTICE: Thank you very much.

15 DR. SHAPIRO: Steve, do you have a final
16 question?

17 MR. HOLTZMAN: Can we get a copy of the
18 slides?

19 DR. PRENTICE: Sure. You want a copy of
20 the slides?

21 MR. HOLTZMAN: Yes, that would be fabulous.

22 DR. SHAPIRO: If you could just give it to
23 a member of the staff, we could reproduce it.

24 DR. PRENTICE: Sure, they are all on
25 PowerPoint with the exception of the couple. I can
26 give you that personally if you want.

27 DR. SHAPIRO: Okay. Thank you. Thank you

1 very, very much for being here today.

2 We now want to move directly into our next
3 panel.

4 Marjorie?

5 PANEL V: PERSPECTIVES OF
6 OVERSIGHT SYSTEM FROM IRBs

7 DR. SPEERS: As our next panel is
8 assembling themselves at the table, let me just give
9 a few brief remarks.

10 We are moving into the two final panels for
11 today. Both of these panels have been asked to
12 address the same issues from their unique
13 perspectives.

14 This first panel is composed of individuals
15 who are IRB administrators, institutional officials,
16 or IRB chairs. And in the case of a couple of them,
17 they have served maybe previously as an IRB chair,
18 although, currently they may be an IRB
19 administrator.

20 They will be discussing issues, therefore,
21 related to or from the perspective of the IRB or the
22 institution.

23 Then we will have a panel after lunch that
24 will be discussing issues from the researcher's
25 perspective where we have several researchers who
26 will be talking about the same issues.

27 What I asked each of the panelists to do

1 was, to begin by giving a few prepared remarks where
2 they would highlight some of the major concerns that
3 they see with the federal oversight system, not all
4 concerns, but to choose what they considered to be
5 major concerns, and also to comment on potential
6 solutions and recommendations for us.

7 So now that everyone is assembled, let me
8 introduce them.

9 We have Mr. Daniel Nelson, who is director
10 of the Human Research Studies and Associate
11 Professor of Social Medicine and Pediatrics at the
12 University of North Carolina-Chapel Hill.

13 Ms. Moira Keane, who is the director of
14 Research Subjects' Protection at the University of
15 Minnesota Health Center.

16 Dr. Ray Stinson, the Assistant Vice
17 President for Research at Wayne State University.

18 And Dr. Robert Nelson, who is Assistant
19 Professor of Anesthesia and Pediatrics, and director
20 of Research Regulatory Affairs Office at the
21 Children's Hospital of Philadelphia.

22 Thank you and welcome.

23 Generally we just sort of start in the
24 order of which you are on the agenda and so we will
25 do that today and start with Mr. Nelson.

26 DANIEL K. NELSON, M.S.

27 DIRECTOR, HUMAN RESEARCH STUDIES,

1 AND ASSOCIATE PROFESSOR OF SOCIAL
2 MEDICINE AND PEDIATRICS
3 SCHOOL OF MEDICINE
4 UNIVERSITY OF NORTH CAROLINA-CHAPEL HILL

5 MR. NELSON: Thank you for the opportunity
6 to speak to you today. Given just these few minutes
7 to provide our IRB perspectives, I figure I can
8 either cover a very few issues in some depth or get
9 a broad range of issues out on the table, and I
10 opted for the latter, recognizing that you are
11 receiving complete papers on some of these single
12 topics. So I will move fast and be happy to provide
13 details during the discussion.

14 (Slide.)

15 There is a transparency up there that
16 should match. There are two pages that, hopefully,
17 you now have in hand.

18 Let me start with issues that have been
19 around for a while.

20 When I was invited to present here today, I
21 asked some colleagues what they thought the NBAC
22 should hear, and several of them gave me the top
23 quote or something along those lines. "The common
24 rule is a nice idea...but it is, unfortunately, not
25 reality."

26 There are overlapping, contradictory
27 regulations that lead to catch-22s and nonsequitors,

1 the FDA pointing us in one direction, the HHS in
2 another. There are some IRBs that only need to
3 worry about FDA regulations, others that work
4 strictly from HSS regulations.

5 Those of us, at institutions with diverse research
6 portfolios, end up trying to serve several masters
7 and many of us have promised, via the assurance
8 mechanism, to apply HHS regs across the board
9 regardless of funding.

10 So we are left doing mental gymnastics that
11 really have little to do with protecting human
12 subjects. It is difficult to argue, I think, that
13 subjects receiving a drug in an industry sponsored
14 study deserve more or less protection, than subjects
15 receiving perhaps the same drug in an NIH sponsored
16 protocol.

17 Even more disconcerting are loopholes that
18 allow some research in some settings to occur
19 without any kind of IRB oversight or informed
20 consent regulations. I believe the DeGette-Waxman-
21 Mica bill that is now moving through Congress would
22 be a positive step toward bringing consistency and
23 closing some of these loopholes.

24 Variability is widespread. If the
25 regulatory discrepancies I have just mentioned are
26 not enough, the regs themselves are vague enough,
27 that two reasonable people can come up with

1 differing interpretations, and we have many more
2 than two people, and not all of them are reasonable.

3 Some of this is simply the nature of the
4 beast, with as many people and as many institutions
5 and as many studies as we have trying to apply and
6 interpret, but some of it relates to the lack of
7 standards and the difference in abilities and
8 resources. Clearly not all IRBs are created equal.

9 There are now several initiatives to start
10 to bring some level of standardization. I have been
11 involved, and have been fortunate to be involved at
12 the national level, with the ongoing initiatives out
13 of ARENA and PRIMR to establish accreditation of
14 institutions and certification of individuals. I
15 would be happy to discuss that later.

16 Conflict of interest has also been around
17 for a long time. It is inherent to the process. I
18 think I should have struck the word "clinical"
19 there. It is inherent to research in general. It
20 is also a nature of the beast sort of scenario.

21 Certainly any time a physician enrolls a
22 patient into a trial, there is a built in inherent
23 conflict of interest, and the increasingly large
24 amounts of money only add additional -- another
25 layer of conflict.

26 There are questions regarding disclosure,
27 whether to institutions, to IRBs, to patients, and

1 there are questions regarding institutional handling
2 of funds from clinical trials. Clinical trials more
3 and more are being conducted in nontraditional
4 settings, where the physician serves as an
5 investigator, serves as institution, and what I mean
6 by that is, increasingly there is no institution, so
7 it becomes somewhat meaningless to talk about
8 institutional management of the conflict of interest
9 because the physician and the investigator and the
10 institution may be one.

11 Therapeutic misconception. I know from
12 your materials and from the discussion yesterday
13 that you already have a good feel for this and have
14 spent time discussing it so I will not waste time
15 today or insult you by defining it further. Just
16 let me say that we at UNC, Larry Churchill and Nancy
17 King and I and others in our department spend a
18 great deal of time thinking about this. We
19 recognize it as a problem and I do not think they
20 would forgive me if I did not, at least, list it as
21 something IRBs should be concerned with. There are
22 ample opportunities in this research process for the
23 blurring of obligations and for the blurring of
24 expectations.

25 Pre-IRB scientific review. There are those
26 that argue that review of the science is not our
27 job. It is certainly not our primary reason for

1 existence, but solid science is integral to that
2 risk/benefit calculus that you just heard about from
3 Ernie Prentice.

4 Ethicists, perhaps some of you around this
5 table, are fond of saying that "Bad science is
6 unethical science." Here, too, there is variability
7 in the type and depth of review that occurs. The
8 IRB is admittedly not constructed as a merit review
9 panel but far too often we are serving as the only
10 body other than the investigator or the sponsor to
11 examine the study design and other issues.

12 Compensation for research related injury
13 has been around for a while. Just let me say that
14 this is an area where our ethical obligations to do
15 right, by the people who volunteer their time and
16 their bodies, seems to be in conflict with
17 institutional policies and with the regulatory
18 requirements that currently exist.

19 IRB as default. I have listed two examples
20 there of clinical scenarios and these truly are
21 clinical scenarios where, one physician may be
22 acting in the best interest of one patient, with no
23 intent to gather data to conduct research, but there
24 is really nobody else around to oversee this process
25 and so, just because there is no one else, the IRB
26 gets handed this task and often gets placed in a
27 tenuous position with little effect.

1 There are impaired lines of communication -
2 - several questions were raised during the previous
3 session -- between the IRB and regulatory agencies,
4 between the IRB, and here I mean the local site IRB,
5 and other IRBs reviewing the same study, between the
6 federal RAC as, just an example of another external
7 body from which we could benefit, and from DSMBs who
8 are in a much better position to do what IRBs are
9 very poorly equipped to do.

10 And that is to deal with adverse event
11 reporting. It has already been discussed.

12 (Slide.)

13 I think the fastest way to summarize this,
14 from my perspective, is to leave you with this
15 mental picture.

16 You do not have a copy of this but this
17 portrays the ancient Indian parable of the six blind
18 men who set out to describe the elephant, and
19 depending on which part of the elephant they feel,
20 they get a much different picture. Of course, the
21 one feeling the tail describes a rope; the one
22 feeling the leg describes a tree and so on.

23 In this picture, the elephant in my mind,
24 represents the aggregate global adverse event
25 experience across a clinical trial, and I would
26 suggest that local IRBs are just about as well
27 equipped as these six blind men of India, in having

1 a realistic picture of what is going with the trial
2 as a whole and, in fact, beyond simply adverse event
3 reporting. I think this analogy could be drawn
4 across the clinical trial interplays which now takes
5 place across many more sites than the regulations
6 initially anticipated.

7 (Slide.)

8 These are evolving issues. I would just
9 note that this is a much shorter list and my point
10 here is that these problems did not start with Duke.
11 They did not start with Jesse Gelsinger despite the
12 media's rather recent discovery of the IRB world.
13 Most of these issues have been around for a long
14 time and we have been grappling with them for a long
15 time.

16 Growing workloads. I guess this is an old
17 issue but increasingly an evolving issue. I had a
18 graph along that I will not show in the interest of
19 time showing our local volume but just suffice to
20 say that our volume and that of institutions around
21 the country are going up and up and up with no end
22 in sight. That is a positive reflection of the
23 amount of work being conducted but grappling with
24 that we are now up to four boards just with our
25 biomedical oversight meeting once a week to handle
26 the volume that we have at UNC.

27 The complexity is also increasing. New

1 technology is bringing new challenges and you are
2 very familiar with those.

3 Evolution of the clinical trials
4 enterprise. I have mentioned some of that. More
5 and more research is migrating out of the academic
6 medical centers, the traditional setting, into
7 nontraditional settings, and so we have a
8 multicenter world into which we are trying to impose
9 single site regulations that were developed for a
10 much different time.

11 I am in favor of some efforts to be more
12 innovative and imaginative in centralizing review
13 but how do we do that without losing the local
14 perspective? And here I would just like to mention
15 that when we discuss this commonly, the focus is on
16 sensitivity to community norms, community standards
17 with an eye towards the subjects.

18 And clearly that is very important but
19 something that is often overlooked and I think
20 perhaps just as important in overseeing this process
21 is a feel for the capabilities and perhaps the
22 proclivities of our local investigators. I can
23 guarantee you that I have a much better feel for
24 what our investigators are up to than a central IRB
25 across the country could ever be by reviewing the
26 medical license and the CV, which is about the
27 extent of interaction with the investigators

1 conducting a study.

2 Evolution of IRB work as a profession. As
3 you just heard, running IRBs is something that has
4 evolved from a process that was dumped on a personal
5 secretary of whoever happened to be dumb enough to
6 take the chair a few years ago, to then becoming
7 part of an administrator's job, to then all of an
8 administrator's job, to now really a profession with
9 a career with faculty level appointments at some
10 institutions, our's included, following nationwide
11 searches. Some of us at this table are now getting
12 calls from professional head hunters like might go
13 after CEOs, which is perhaps not inappropriate with
14 budgets in this area growing over a million dollars
15 in some institutions, with large staffs to manage,
16 and large responsibilities considering that the work
17 may influence the subjects' lives and well being,
18 not to mention several hundred million dollars of
19 grant funding, which is important at the
20 institutional level.

21 Mandates without standards and without
22 resources. The mandates that are coming out are
23 good. They are needed but we have very little
24 guidance on how to actually apply them, what is
25 expected, and even less resources. The unfunded
26 mandate is the fear of IRBs across the country.

27 Let me finally combine the last two in the

1 interest of time. A shifting emphasis from
2 protection to compliance and yet another report. In
3 the last two years there have been eight to ten
4 reports and you are working on another one, and I
5 encourage you to complete that task, and an equal
6 number of very public shut downs.

7 It is now to the point when I give a talk I
8 can usually pick up the morning newspaper and have
9 it as a prop to use during the talk so I was not
10 surprised but I also was not happy on the plane
11 yesterday to grab the USA Today and the front page
12 headlines read "Clinical Trials Halted, Feds Say
13 that Cancer Study Endangered Patients," and another
14 institution has been shut down.

15 Now I should hasten to point out that I
16 agree with the findings of many of these reports,
17 most of them accurately describe the system. I
18 agree with the need to probably go out and shut down
19 some of these institutions not only to correct
20 problems at that site but to get the attention of
21 the rest of the world, which has certainly been
22 occurring.

23 However, I think we need to remember that
24 compliance is simply a means to the end. The
25 important end is the protection of subjects and it
26 is something we are in danger of overlooking as we
27 worry -- as institutions are scrambling to dot the

1 I's and cross the T's.

2 Thanks for your attention.

3 DR. SHAPIRO: Thank you very much. I think
4 if there are any clarifying questions we could take
5 them now. If not, I would ask people to hold their
6 questions until everyone has made a presentation.

7 Any clarifying questions?

8 Okay. Let's move on. I believe, Ms.
9 Keane, you are next.

10 MOIRA A. KEANE, M.A.,
11 DIRECTOR, RESEARCH SUBJECTS' PROTECTION PROGRAM
12 IRB/IACUC, UNIVERSITY OF MINNESOTA HEALTH CENTER

13 MS. KEANE: Thank you.

14 I am going to, I think, reflect some of the
15 comments that Dan has made and I think that you will
16 see a common theme as we approach some of the issues
17 and concerns because we are seeing a kind of
18 nationalization or globalization, if you will, of
19 some of the issues facing IRBs.

20 We are operating right now under a climate
21 of distrust. And I am going to focus my comments on
22 four sections. Competing expectations, conflicting
23 commitments, culture change that is necessary and
24 communication.

25 First of all -- and I am not going to
26 belabor it. The climate of distrust is well known
27 to this group. Congress does not trust the

1 agencies. The agencies do not trust IRBs.
2 Investigators are not trusting IRBs. And foremost
3 in our minds should be the fact that the public is
4 also distrusting the system. They are very
5 concerned that there is not an infrastructure in
6 place to protect their interests in the research
7 participation.

8 It is critical for us to restore that trust
9 and I am hopeful that the report that comes from
10 this group will help move that trust along.

11 First of all, with competing expectations.
12 IRBs are charged with assuring that plans are in
13 place for protecting the rights and welfare of
14 subjects. This is distinct from assuring that the
15 subjects are protected during the course of the
16 research project but IRBs are being held accountable
17 for that protection.

18 The actual protection occurs at the
19 bedside. It is the responsibility of the researcher
20 who is present during the course of the research.

21 Our focus for reform should include the
22 researcher role in this constellation so we should
23 not just focus on the IRB staff or on the IRB
24 membership. Now that should not diminish the
25 role that the IRB should play but we need to be sure
26 that we are focusing on the researcher.

27 Further competing expectations: We have

1 had a focus on accountability and documentation
2 rather than on the responsibility and the
3 verification component. I think Ernie alluded to
4 this earlier when he mentioned monitoring as an
5 essential component. There is tremendous
6 competition between research goals and economic
7 incentives that have changed the altruistic goal of
8 research as a benefit to humankind into research as
9 a source of profit for institutions, researchers and
10 sponsors.

11 This has led to imposition of escalating
12 agency expectations, imposing unfunded and often
13 burdensome mandates for IRBs with little regard for
14 the measurement of whether the new mandates actually
15 add to the enhancement of protection.

16 I would cite an example here of the
17 assurance process. The multiple project assurance
18 and the Byzantine system of single project
19 assurances are a hindrance to most IRBs and do not,
20 in fact, I believe add much measure of protection
21 for the individuals who are participating in the
22 research projects.

23 Institutions expect that a system of
24 volunteers with meager staff are knowledgeable and
25 ever vigilant when, in fact, there are significant
26 disincentives for IRB service at most institutions.

27 Researcher perceptions of IRBs focus on the

1 speed and the need for ease of IRB review rather
2 than on the value of enhancing protection as a
3 product of the review.

4 There are conflicting commitments. The
5 resource commitment at all levels in the IRB system
6 is woefully inadequate to the task. Federal agency
7 support has been deficient so that they cannot
8 provide the necessary guidance and education that
9 IRBs need.

10 The recent new initiatives for education of
11 IRB members and staff are noble and necessary but
12 there is a danger that in an effort to comply with
13 this requirement, especially given the time limits
14 imposed, institutions will foster inadequate
15 educational initiatives, which may do little to
16 improve the knowledge of regulations and
17 responsibilities and may, in fact, delude us into a
18 sense of complacency and comfort with our knowledge
19 and understanding of what is necessary to protect
20 human subjects.

21 There are tensions between financial
22 pressures to attract lucrative research contracts to
23 institutions, which fosters an atmosphere where
24 short cuts and questionable alliances divert our
25 attention from the rules and regulations.

26 The perceived blurring of lines between
27 research experiments and therapeutic interventions

1 needs distinctions both for IRBs and for our public
2 education.

3 We need a culture change. The federal
4 agencies must change. Oversight by the agency
5 personnel should be constructive and corrective, and
6 punitive action should be limited only to severe
7 cases of noncompliance.

8 I say that at the same time I think the
9 pressure has to continue. We have to hold
10 institutional officials to the public commitments
11 and assurances that they have made. Without that
12 pressure we will not have the reform that is
13 necessary.

14 Institutional supports must be bolstered to
15 shift our thinking from the volunteer role of IRB
16 service to a full functioning, educated and
17 professional support system.

18 Institutions must stop paying lip service
19 to supporting the IRB function and actually in
20 spirit and fact support IRB members and IRB staff.

21 The focus on medical research both from
22 this group and, unfortunately, in most of our home
23 institutions is really a detriment to participants
24 in behavioral research projects. The attendant
25 risks in behavioral and social sciences may be
26 harder to measure but they have far reaching and
27 often lasting effects on participants.

1 The biomedical model that we have
2 superimposed over the behavioral research is
3 insufficient to the task of assessing risk in these
4 kinds of research projects and we must have reform
5 in those areas.

6 I want to talk a little bit about
7 communication. We have mixed messages from the
8 agencies. They are tough but they do not have
9 teeth. They have teeth but they cannot help us.

10 We cannot have it both ways. IRBs are
11 reluctant to go to the agencies that are there to
12 help guide them for fear of sanction. We are
13 reluctant to pick up the phone and call the federal
14 agencies and ask for their advice on research
15 projects for fear that it will raise a red flag and
16 attract undue attention to a process in our
17 institution that may not be deficient but may appear
18 to be based on an innocent phone call or query.

19 There is tremendous pressure to have IRBs
20 move quickly through the approval process,
21 particularly for lucrative clinical trials. The
22 financial pressures are tremendous. Much as we try
23 to insulate our IRBs from the knowledge of budgetary
24 constraints might be in place on a particular
25 research project, the pressure is there.

26 We need to work towards a new system that
27 supports researchers and supports a system of

1 validation and verification that, in fact, human
2 subjects are being protected.

3 The rules and guidance generated in the
4 middle of the past Century are not sufficient to
5 deal with the challenges of current research
6 initiatives. There are very few simple clinical
7 trials anymore.

8 On my desk right now we probably have two
9 or three very large program project grants that have
10 been submitted to the federal agencies for funding
11 that involve human research, animal research, gene
12 transfer, biosafety issues, the whole gamut.

13 There is a very complex matrix of
14 regulations and requirements to follow those
15 projects through to safe completion. These are
16 different kinds of challenges than what we faced
17 even ten years ago.

18 Now I have really painted a fairly bleak
19 picture of IRBs and I do not want to leave you with
20 that. I believe that there is a tremendous amount
21 of hope out there in the IRB community. With any
22 kind of crisis we have an opportunity. We have an
23 opportunity to assess what is working, eliminate
24 ineffective practices, and enhance effective
25 programs.

26 I would strongly urge that we have agency
27 refocusing to guide and correct as a means of

1 reform. We need to critically examine the practices
2 that enhance protection and diminish those that add
3 burden.

4 I hope that the agencies will reach out and
5 communicate with the field. The suggestion that we
6 include a citizen IRB advisory component to federal
7 agency oversight is long overdue.

8 The distrust and negative reports are not
9 the entire picture.

10 Headlines -- you know, institution in full
11 compliance with all research regulation is unlikely
12 to make the USA Today headline that we could use as
13 an example. That is unfortunate. The media is
14 looking for the sensational story. That is not
15 helping our public trust our system.

16 But just as with any prevention program it
17 is hard to measure and account for our successes.
18 It is difficult for IRBs to demonstrate precisely
19 how and when we have protected people but I believe
20 that the system of protection is better for having
21 IRBs in place than we would be if we went without a
22 system of oversight at the local level.

23 I am also pleased to say that I think that
24 IRB staff and members whom I have had the pleasure
25 of encountering in my work both locally and
26 nationally are some of the most dedicated altruistic
27 people that I have encountered in my professional

1 work. They truly believe that their work has an
2 impact on protecting subjects and that they can make
3 a difference.

4 But we need your help to continue that. We
5 need your help to continue what works, eliminate our
6 wasteful practices, and enhance the protection of
7 the true heroes in this process, and those are the
8 human participants in our research projects.

9 Thank you.

10 DR. SHAPIRO: Once again let me see if
11 there are any clarifying questions. We will come to
12 more general questions later on.

13 Yes, Alex?

14 PROFESSOR CAPRON: Could you give us an
15 example of the kind of inquiry to a federal office
16 that would trigger a sense of deficiency where there
17 was not one present?

18 MS. KEANE: Yes. I think that especially
19 in areas of noncompliance where an IRB is
20 questioning what should we do if we find out that a
21 researcher has proceeded with a project without
22 submitting it to the IRB or a researcher has
23 deviated in a significant way from the approved
24 protocol, how should we handle that. That is not a
25 naive or infrequent question.

26 And the fact that I would raise the specter
27 of noncompliance at an institutional level by

1 calling a federal agency and asking that question is
2 something that does cripple IRB staff and chairs
3 from proceeding.

4 So we often turn to our colleagues for
5 consultation, which for the most part can be very
6 beneficial but it could, in fact, get us in trouble
7 if we consult with the wrong colleagues.

8 DR. SHAPIRO: Thank you. Any other
9 clarifying questions?

10 Okay. Dr. Stinson?

11 E. RAY STINSON, Ph.D.

12 ASSISTANT VICE PRESIDENT FOR RESEARCH

13 WAYNE STATE UNIVERSITY

14 DR. STINSON: I am the Assistant Vice
15 President for Research at Wayne State University
16 where I am responsible for research administration
17 and the institution of research compliance programs.
18 Among others, these include the Human Investigation
19 Committee and the four IRBs at my institution.

20 The administrative staff of 7.5 people and
21 the chairs of the four IRBs and the Human
22 Investigation Committee chair, all faculty members
23 report to me for their IRB related activities.

24 Each of the IRBs consist of approximately
25 15 to 20 individuals with two to three community
26 representatives on each committee. Consequently,
27 approximately 80 people are members of the IRB at

1 Wayne State. More than 1,800 protocols are active
2 at any one point in time.

3 Wayne State is an urban Carnegie One
4 research institution with approximately 32,000
5 students. In fiscal year '99 we conducted more than
6 \$200 million in research funding, approximately 40
7 percent of which involved the use of human subjects
8 as part of the research methodology.

9 We conduct research under an MPA that
10 includes all research activities at Wayne State,
11 eight hospitals within the Detroit Medical Center,
12 and the John Dingle VA hospital. The Detroit
13 Medical Center has approximately 3,000 beds and the
14 Wayne State University Program for Human Research
15 Protection covers all of their research activities.

16 Before I make my comments, I would like to
17 thank you for allowing me to discuss institutional
18 concerns regarding the protections of human
19 subjects. I would like to emphasize that I will be
20 addressing the issue from an institutional
21 perspective and not specifically from an IRB.
22 However, I do hope that these two perspectives are
23 compatible.

24 At Wayne State, we believe that the four
25 IRBs are there for the protection of human subjects
26 and not for the protection of the institution. As
27 such, many of the activities related to human

1 subjects protection are the responsibilities of the
2 institution and not the IRB. For example, these
3 include our educational programs for faculty and
4 research staff, maintenance of our MPA,
5 institutional review of selected research protocols,
6 and compliance with institutional, state and federal
7 policy.

8 In working with the faculty, research
9 staff, and specifically members of the IRB, I
10 constantly emphasize that we live or die by
11 compliance with our MPA, not the Common Rule.

12 While the assurance states that we will
13 conduct research in compliance with 45 CFR 46, it
14 also assures that we are in compliance with 21 CFR
15 Parts 50 and 56, state laws, and institutional
16 policies regarding human research protections.
17 While they and you may think that there is little
18 difference, I believe that it is critical that we
19 remember and regularly acknowledge that our
20 institutional policies go way beyond the requirement
21 of the Common Rule.

22 While it is important for institutions to
23 voluntary extend the policies and procedures to
24 include all subjects in order to maintain
25 credibility with the public and to maintain our
26 adherence with the principles established in various
27 international codes, many institutions have not

1 understood the financial cost of this extension.

2 Quite often, institutions have used
3 adequate financial resources associated with staying
4 in compliance with the Common Rule, i.e. funds
5 available from indirect costs under A-21, and
6 attempting to stretch them to provide for the
7 protection of all research subjects. This has led
8 to problems in the belief that academic institutions
9 are not providing adequate financial resources.

10 It is my contention that academic
11 institutions are providing adequate financial
12 resources for extending the principles of the Common
13 Rule. However, many of them are not providing
14 adequate financial resources for extending these
15 principles of other Common Rule to all human
16 research being conducted at their institutions.
17 Understanding and communicating the importance of
18 this extension and the financial costs associated
19 with the institutional decision is a major flaw of
20 many institutional programs.

21 For the remainder of my discussion I would
22 like to emphasize how research, particularly
23 clinical research, has changed since 45 CFR 46 were
24 propagated.

25 This change in how we conduct clinical
26 research has made it difficult for academic
27 institutions to stay in compliance with their MPA.

1 I believe that these can be grouped into five
2 categories. The difficulties in identifying the
3 institution, the difficulties in identifying the
4 researchers, the difficulties in identifying what is
5 research, the difficulties in identifying the
6 research subjects, and finally the difficulties in
7 identifying the community.

8 While the commission has spent time in
9 discussing the difficulties in identifying what is
10 research and in identifying the research subjects,
11 specifically as it relates to genetics, I would like
12 to spend my time discussing how difficult it is to
13 identify the institution and the researchers in a
14 research protocol. If time allows, I will discuss
15 the problems in identifying the community in which
16 the research is conducted.

17 Unlike when 45 CFR 46 was originally
18 propagated, institutions as defined by the Common
19 Rule are really multiple institutions with shared
20 goals that are acting as a single research
21 organization. For example, the Wayne State MPA
22 covers all behavioral and health related research
23 for ten separate institutions located within
24 Southeast Michigan. While this integrated approach
25 is advantageous to health care delivery, the
26 administrative cost related to maintaining a program
27 for human research protection is substantial. In

1 fact, it is a constant struggle for the Office of
2 the Vice President for Research to even be aware of
3 new affiliations proposed by affiliated institutions
4 that may have an effect upon our MPA.

5 The research paradigm used when 45 CFR 46
6 was developed included research conducted by one
7 investigator, at one institution, and in one
8 community. Over the years, we have manipulated the
9 regulations to accommodate the effects of conducting
10 research at one institution and in one community to
11 clinical research conducted by many investigators at
12 numerous institutions and in multiple locations.

13 However, collectively, we are not efficient
14 because this duplication of this effort is that the
15 cannot -- I am sorry. However, collectively, we are
16 not efficient because many of the other communities
17 throughout the country duplicate the work of our
18 committee.

19 The effects of this duplication of effort
20 is that institutions cannot or will not prioritize
21 when approval and oversight is unique to them and
22 when it can be shared with another IRB.

23 In addition, the complexity required to
24 maintain our compliance with the Common Rule makes
25 it easy for investigators and institutions to
26 violate institution policy without deliberate
27 intent. I will defer to my colleagues to identify

1 the problems with adverse event reporting, languages
2 in the consent form, and other areas in which
3 multicenter studies have affected how clinical
4 research is reviewed and approved by the local IRB.

5 If requested, I would be willing to provide
6 additional examples.

7 This use of multicenter studies is really a
8 way of decentralizing the research activities. I
9 would like to describe what I believe is the next
10 wave in this decentralizing approach to conducting
11 clinical research. These new approaches will make
12 it even more difficult to define the institution and
13 research staff responsible for conducting clinical
14 research under an MPA.

15 As part of the diagnostic related group's
16 mechanism for reimbursing academic health centers,
17 research groups are establishing research
18 affiliation agreements with individual physicians,
19 practice plans and health care institutions that
20 have traditionally not been involved in the research
21 enterprise.

22 Each of these relationships individually
23 can be handled under the current Common Rule. For
24 example, we could use a single project assurance for
25 independent investigators, the interinstitutional
26 agreements and other agreements provided by OPRR to
27 extend the definition of the institution and the

1 research staff covered by the MPA.

2 However, in the past these have generally
3 been protocol specific. As part of the disclosure
4 to the IRB, the investigative team would identify
5 researchers and other institutions that may not be
6 covered by the MPA. The IRBs would alert the
7 institution and additional agreements were signed to
8 allow the research to be conducted under the MPA.

9 Even in today's environment it is often
10 difficult to remain in compliance because of the
11 various types of agreements that may be necessary
12 and when they need to be applied. Many of these
13 agreements require amendments to our MPA that are
14 time consuming.

15 In the future, investigators would like to
16 not define who is conducting the research until
17 after a patient has been identified. For example,
18 the investigator would like to treat a patient under
19 a research protocol because of the advantages of
20 participation in the protocol. He/she would like
21 the option to include the local physician or health
22 care provider as a member of the investigative team
23 so that they can conduct simple blood work, x-rays
24 or provide certain chemotherapies at the local
25 level.

26 Because the patient is not known in
27 advance, the appropriate agreements cannot be

1 negotiated with the physician and/or his or her
2 institution in a timely fashion so that the patient
3 can be treated on a particular protocol.

4 While it may make sense from a health care
5 delivery standpoint and it certainly makes sense
6 from a reimbursement perspective, it will be a
7 nightmare and will be extremely expensive for the
8 institution to manage and stay in compliance with
9 the Common Rule.

10 Our Karmanos Comprehensive Cancer Center is
11 currently negotiating with approximately 50
12 different groups of individual physicians, practice
13 plans, health maintenance organizations and health
14 care institutions for conducting clinical care and
15 research in this decentralized approach to research.

16 If successful, I can assure you that it
17 would be extremely difficult for us to remain in
18 compliance with the Common Rule because of the
19 number and different types of agreements that must
20 be negotiated before research that may be part of
21 clinical care is provided to the patient research
22 subject.

23 DR. SHAPIRO: Thank you very much for those
24 thoughtful remarks. Again, any clarifying questions
25 at this moment?

26 Dr. Nelson? Thank you.

27 ROBERT NELSON, M.D., Ph.D.

1 ASSISTANT PROFESSOR OF ANESTHESIA AND PEDIATRICS
2 DIRECTOR, RESEARCH REGULATORY AFFAIRS OFFICE,
3 CHAIR, INSTITUTIONAL REVIEW BOARD,
4 THE CHILDREN'S HOSPITAL OF PHILADELPHIA

5 DR. NELSON: Thank you for the opportunity
6 to speak to you this morning about the system of
7 institutional review boards from the perspective of
8 an IRB chair. Although my opinions owe much to
9 conversation with others involved in IRB activities,
10 they are entirely my own. My intent this morning is
11 to provide a more general perspective, yet I will
12 mention some specific areas of concern towards the
13 end of my remarks.

14 There are two important aspects of my own
15 experience that inform my point of view. First, my
16 mother-in-law is now four years out from the
17 diagnosis of pleural mesothelioma, an asbestos
18 related cancer of the lining of the lung that is
19 usually fatal within one or two years of diagnosis.
20 In 1996, she chose to enter a Phase I trial at the
21 University of Pennsylvania involving the
22 intrapleural instillation of a gancyclovir
23 susceptibility gene using an adenoviral vector,
24 followed by two weeks of the drug gancyclovir. The
25 results were not dramatic, although the growth of
26 the tumor appeared to stabilize.

27 As her symptoms worsened, in 1988, she

1 decided to enter another Phase I trial of an
2 angiogenesis inhibitor drug, this time at the
3 University of California, Los Angeles.

4 In combination with chemotherapy, her
5 symptoms have resolved and her tumors have either
6 diminished or entirely disappeared. I have her
7 permission to tell you that she is very proud of
8 being patient number 14 in the Penn trial and
9 patient number 18 in the UCLA trial.

10 As you all undoubtedly know, the University
11 of Pennsylvania program is no longer in the business
12 of clinical research. The UCLA program was
13 prominently mentioned in U.S. News and World Report
14 last year in an article critical of the medical
15 research enterprise.

16 It would be a shame in my opinion if a few
17 high profile deaths of participants in clinical
18 research protocols led both to the false impression
19 that research participants are being seriously
20 injured on a widespread basis or to the slowing of
21 the pace of important clinical research.

22 Second, I am a practicing pediatrician, who
23 has worked in both neonatal and pediatric intensive
24 care units. Much has been written about the
25 apparent conflict between the roles of researcher
26 and physician, often presenting the simplistic view
27 that a physician acts in the patient's best interest

1 while the clinical researcher values the successful
2 completion of research over the participant's
3 welfare.

4 However, physicians as a whole are prone to
5 overestimate the benefit and underestimate the risk
6 of a clinical intervention and to suggest unproven
7 interventions based on biological plausibility in
8 the absence of efficacy -- all in the pursuit of a
9 patient's best interest.

10 One could speculate that the deaths of
11 research participants at the Universities of
12 Pennsylvania and Rochester were due to the
13 inappropriate extension of these clinical attitudes
14 to the research setting, causing the
15 physician/researchers to press forward in violation
16 of preestablished exclusion criteria or while
17 discounting procedural complications.

18 If the welfare of participants is not a
19 concern to clinical researchers, how do we explain
20 the contrast between the exceedingly rare death on a
21 research protocol due to researcher mistakes or
22 unanticipated adverse events, and the recent
23 Institute of Medicine estimate of between 50,000 to
24 90,000 avoidable deaths due to clinical mistakes?
25 Being a research participant appears to safer than
26 being a patient.

27 Recently I was asked to comment on the

1 death of an infant that was attributed to the drug
2 Cisapride administered as part of a research
3 protocol. Apparently the consent form was
4 inaccurate as it misleadingly stated that the drug
5 was approved for the study indication, that is,
6 gastroesophageal reflux, while failing to mention
7 that it was not approved in this age group.

8 To focus on this mistake, however, is to
9 miss the broader context of the indiscriminate or
10 off label clinical use of this medication which has
11 led to a far greater number of deaths. I suspect
12 that very few pediatricians inform parents that this
13 drug is not approved for use in infants and young
14 children.

15 The inaccurate consent form does undermine
16 the trust of potential research participants for the
17 research process. However, to conclude that
18 research is unsafe when compared to clinical
19 practice is simply false.

20 I have had the privilege of serving as a
21 consultant to three institutions either before or
22 after they were visited by the OPRR. I believe
23 Ernie was part of one or two of those visits. Two
24 of which resulted in highly visible suspensions of
25 their Multiple Project Assurance.

26 Although there were important procedural
27 inadequacies that needed to be corrected, I am not

1 aware of any serious injury or death that resulted
2 from the identified deficiencies in IRB review and
3 ongoing oversight.

4 In fact, I see no apparent relationship
5 between the performance of IRB review and oversight
6 responsibilities, even if carried out to the letter
7 of the federal regulations, and the possible
8 prevention of the highly publicized deaths that have
9 captured our attention.

10 Consider with me two questions. First,
11 which of the following IRB activities would have
12 prevented these deaths? Continuing review, review
13 of amendments, review of adverse event, verification
14 of information from sources other than the
15 investigator, auditing, or data monitoring
16 procedures? These are all IRB responsibilities
17 according to the Common Rule.

18 Second, which of the following recently
19 announced initiatives would prevent these deaths:
20 Civil financial penalties, auditing of the
21 consent/reconsent process, clinical trial monitoring
22 plans for all phases of research, conflict of
23 interest guidelines, or education and training of
24 key personnel?

25 The real issue is not the IRB review
26 process but how to impact on investigator behavior.
27 In my opinion, the only suggestion that would appear

1 to have a positive impact is education.

2 There is no doubt that many IRBs are
3 understaffed and overworked. There is no doubt that
4 many institutions have not provided the necessary
5 administrative infrastructure for the IRB process,
6 instead relying on voluntary time and insufficient
7 administrative support. In my opinion, however, the
8 important work is getting done.

9 Some committees may cut corners in arguably
10 nonessential areas. For example, full committee
11 review of the progress report of ongoing protocols
12 that present no problematic issues, full committee
13 review of grant applications, as opposed to the
14 protocol contained in the grant, or review of
15 individual off site adverse events.

16 Each of these examples has a very low yield
17 with regard to the protection of research
18 participants. Although the initial OPRR suspensions
19 were a necessary wake up call for university
20 administrators and highlighted the inadequacy of
21 institutional support for the IRB, later
22 investigations began to focus on procedural
23 requirements that arguably have little impact on the
24 protection of research participants.

25 Only recently have guidelines allowing for
26 just in time review of NIH grant submissions and the
27 use of Data Safety Monitoring Boards attempted to

1 reduce the regulatory burden on IRBs.

2 However, I am concerned that this shift to
3 Data Safety Monitoring Boards is not well thought
4 out, and may undermine the protection of research
5 participants by focusing primarily on whether the
6 data reaches a predetermined level of statistical
7 significance rather than on any information
8 pertinent to the willingness of current participants
9 to continue in the research, which is the charge to
10 an IRB.

11 Meaningful informed consent occurs through
12 a process of communication that is not reflected in
13 the written document. Most of us agree that the
14 document is neither necessary nor sufficient for
15 adequate voluntary and informed consent.

16 The IRB could monitor the quality of
17 informed consent but we lack an adequate tool for
18 measuring this quality. Assume for the moment that
19 we have such a tool. If an investigator routinely
20 met a certain threshold reflecting the adequacy of
21 informed consent, would we be willing to waive the
22 requirement of IRB review of future consent forms as
23 long as this threshold continued to be met?

24 We should begin to shift away from an
25 emphasis on regulatory compliance and IRB process
26 and towards an evaluation of the outcomes of this
27 process and the ethical behavior we are attempting

1 to influence.

2 Such a system would allow for meaningful
3 ongoing monitoring in many areas; direct
4 observations of consent and study interventions;
5 assessment of investigator understanding of research
6 participant protections; assessment of participant
7 or surrogate understanding of the research, and so
8 forth.

9 Research regulations should be data driven.
10 As I listed before, a number of new initiatives have
11 been proposed by the Department of Health and Human
12 Services. How will we measure their effectiveness?
13 What is the baseline against which we will judge any
14 measured change?

15 One approach would be to fund IRB
16 demonstration projects at selected institutions to
17 demonstrate the effectiveness of proposed rules
18 prior to more general implementation.

19 Personally I am concerned that any shift
20 away from the use of local IRBs will undermine the
21 effectiveness of our current system for protecting
22 research participants. There are many advocates for
23 the development and use of centralized IRB review,
24 mostly from industry and large cooperative research
25 groups.

26 Admittedly, there are many administrative
27 problems that arise in the coordination of multiple

1 IRB reviews and the unjustified degree of
2 variability among IRBs in the efficiency and quality
3 of their review.

4 Although I am certainly a layperson when it
5 comes to law enforcement, let me suggest an analogy
6 between the local IRB and community policing. The
7 local IRB walks the beat and knows the neighborhood
8 in a way that is not available to a central IRB.
9 The local IRB can balance regulatory compliance with
10 a flexible interpretation of the law, forging a
11 partnership with investigators that ultimately
12 serves to protect research participants. Support
13 for the local IRB may be expensive and
14 administrative complex, but crime will go down.

15 To take the IRB off the beat and put them
16 in the station house is not the solution. To remove
17 any regulatory authority from the local IRB and
18 place it in the hands of a remote central
19 administration is not the solution.

20 I suspect that the effectiveness of advice
21 from a community based police officer is partly
22 related to the baton and handgun resting at her
23 side.

24 At the risk of pressing the analogy too
25 far, or perhaps of having even started it in the
26 first place, the decisions and actions of the local
27 IRB must be supported by the institutional

1 administration, yet with feedback from the community
2 that the IRB is designed to serve; that is, the
3 people who are research participants.

4 We have many issues that call for our
5 attention. The definition of research, investigator
6 conflicts of interest, recruitment incentives that
7 may unduly influence the consent process, ongoing
8 data monitoring and preventable research risk, the
9 development of meaningful outcome measurements for
10 IRB review and the ethical conduct of research,
11 appropriate empowerment of an IRB to make necessary
12 yet unpopular decisions, building a meaningful
13 culture of protection rather than focusing on simple
14 regulatory compliance, and many other important and
15 vexing issues that have been mentioned by my
16 colleagues on this panel or that have come before
17 you at other meetings.

18 The fact that we recognize and are engaging
19 these issues is a sign of the health of the IRB
20 system and not its disease. What is needed now is
21 leadership guided by moral wisdom and informed by a
22 dispassionate analysis of the facts.

23 DR. SHAPIRO: Thank you very much and let
24 me take this opportunity to thank once again all the
25 participants on the panel. We appreciate your
26 generosity in taking time to be here with us today.

27 Let me now turn to see what questions that

1 may arise from members of the commission. Any
2 questions?

3 Larry?

4 DR. MIIKE: For Mr. Stinson and anybody
5 else who wants to comment. On the issue about
6 decentralized research projects and the multiple
7 affiliations, what would you propose be the
8 institutional response from the oversight agency,
9 the federal government?

10 And, also, along those lines, right now
11 there is really the office of -- the old Office of
12 Protection from Research Risks, and then there are
13 funding agencies. So is there an appropriate
14 decentralization at the federal level, too, in terms
15 of oversight?

16 And then for Ms. Keane -- well, let me -- I
17 better stick to one question at a time.

18 DR. SHAPIRO: That is a good idea. Yes.

19 DR. STINSON: Thank you.

20 As it relates to the decentralized function
21 I personally believe that we need to pay particular
22 attention to what we mean by community because as we
23 move into these extremely distributed decentralized
24 systems, it will be very difficult for us to
25 understand what is going on throughout particularly
26 the State of Michigan.

27 In our's we are doing projects in the

1 Charleboyd (sic) area, which is probably four or
2 five hours away. We are doing it up in the UP,
3 which is a good 10 to 12 hours away. We are doing
4 it in Wisconsin which is 15 to 17 hours away so I
5 believe that there are going to have to be some type
6 of shared responsibilities from IRBs from the local
7 level when they do exist and they only exist
8 particularly at health care institutions.

9 They do not exist within maintenance
10 organizations or individual physicians and we will
11 have to address that.

12 I do believe that that has to be at the
13 institutional level and I find that very difficult
14 to think that we can implement a system where we
15 have to get sign off by some type of government
16 agency for that. I think that has to be included
17 into a major educational program that would include
18 those individuals knowing about what it means to be
19 part of research at Wayne State University.

20 One of the concerns that I do have about
21 the educational programs is we believe that an
22 educational program is for IRB work. My personal
23 opinion, the education is -- how it is implemented
24 at the local level. So what is acceptable and
25 approvable at Wayne State may not be acceptable and
26 approvable by NIH.

27 What they have in their training programs

1 and how they define and what they tell investigators
2 to do will be exactly the opposite of what should be
3 done at Wayne State.

4 So I think we will have to pay particular
5 attention to that educational function.

6 DR. SHAPIRO: Thank you. Larry, do you
7 want to ask another question?

8 DR. MIIKE: Yes. Do you have a formal or
9 loose network or association of institutional review
10 boards because I was struck by your comment that the
11 feds are the only ones that you can turn to when you
12 have an issue? And it seems like -- you know, with
13 the internet and listservs and et cetera, you could
14 have best practices kinds of things. That has been
15 raised before.

16 MS. KEANE: I will start answering that but
17 I think I will defer to Skip Nelson. Yes, there is
18 a network of IRB administrators and we do find
19 tremendous value in interacting professionally.

20 The Association for Research -- Applied
21 Research Ethics National Association, ARENA, which
22 is a branch of the PRIMR organization, is of
23 tremendous help and resource to IRBs who feel
24 isolated. IRB staff members and committee members
25 feel as if they are often operating in a vacuum so
26 that is of tremendous support.

27 Skip, do you want to talk about the McWIRB?

1 MR. NELSON: Since 1994 I have been the
2 coordinator of an IRB discussion forum on the
3 internet which is currently web based. The URL is
4 www.mcwirb.org, which stands -- used to stand for
5 the Medical College of Wisconsin IRB, where I no
6 longer am located so now it is just a nickname. And
7 there is now 2,300 people that are members of that.

8 And it is expressly for sharing that
9 information.

10 I will say, though, I think sometimes
11 people are reluctant to get very sort of down and
12 dirty about specific protocols in that kind of a
13 forum because e-mail in many ways is not private and
14 can be circulated and there is a capability of
15 having private discussions in password protected
16 locations but by and large e-mail is what most
17 people use.

18 DR. SHAPIRO: Mr. Stinson, do you have a
19 comment on this question?

20 DR. STINSON: Yes, I do. It is my personal
21 opinion that it would be extremely helpful if
22 federal agencies that are working with institutions
23 in terms of education, in terms of compliance, would
24 be separate from any compliance type issues.

25 We do that in areas of scientific
26 misconduct where we separate the office that makes
27 the decision about what the consequences about being

1 out of compliance from the person that makes the
2 judgment that, in fact, you are out of compliance.

3 And I think if we separated that, that it
4 would make it very helpful and easier for academic
5 institutions to approach a federal agency to talk
6 about an issue when they know that that group is not
7 going to be the one that is going to be providing
8 punishment.

9 DR. SHAPIRO: Thank you.

10 Bernie?

11 DR. LO: A number of you commented on the
12 importance of having a local IRB presence even in
13 this new world of multicenter community based
14 research. Certainly we have heard that sentiment
15 from a lot of other people. Could I ask you to give
16 some specific examples of the sorts of situations
17 where a local IRB would have insights that would
18 make a difference in the protection of human
19 subjects? I would be interested in both an example
20 where the local IRB said, "Yes, it is okay to do it
21 here even though it could never be done at
22 Bethesda," or vice versa, "Even though Harvard
23 allowed that to go forward, we are not going to
24 allow it because of -- not just because of variation
25 but because there is something about the institution
26 or the investigator."

27 Does it work on that level or is it just

1 that we are kind of different?

2 MR. NELSON: Yes. I think it works on that
3 level. I think any of us have investigators --
4 again it is just the nature of the beast. Some who
5 you can leave on a longer leash and some whom you
6 keep on a shorter leash. It does not mean they
7 should not be doing research necessarily but they
8 may not have attention to detail in the same way
9 that others, for example, might have.

10 A truly centralized mono-IRB set up such as
11 might exist in industry sponsored studies run at
12 private practices around the country and then run
13 out of -- are overseen by a central IRB, the extent
14 of their interaction is typically, as I said,
15 getting the state medical license and a copy of
16 their CV, and they say, "Okay. You know how to do
17 research." And that may or may not -- we have a
18 pretty good feel at least at a local level on, as I
19 said, the capabilities of our investigators.

20 We also have examples of stands that we
21 have taken on nationally run studies that -- not
22 because of any local restrictions but just there is
23 an advantage -- you know, two heads being better
24 than one. We have seen situations where studies --
25 the Women's Health Initiative is an example. It was
26 approved nationally. A huge -- sorry -- a huge
27 study involving tens of thousands of women.

1 They had already deposited several million
2 and some dollars in the UNC bank account when our
3 IRB got a hold of it and this was before the days of
4 just in time review, and it took somebody on our IRB
5 to say giving unopposed estrogen to women with their
6 uteri still intact is not current standard and they
7 would not allow it to go on at our institution.

8 That fortunately was a scenario where that
9 information could be passed along back to the
10 central level to NIH in this case, and the whole
11 Women's Health Initiative was redesigned because of
12 one member on one board happened to raise a
13 question.

14 So there is some strength in numbers, I
15 guess, is another thing that factors into that.

16 DR. SHAPIRO: Mr. Stinson?

17 DR. STINSON: I might give an example. At
18 Wayne State we include IRB review for eight other
19 health care facilities. Three of those are in the
20 suburbs, the other five are in the metropolitan
21 area.

22 The difference in the demographics of that
23 is within Metropolitan Detroit. The community is 80
24 percent African American whereas in the suburbs it
25 is exactly the opposite. 80 percent is Caucasians
26 and other -- particularly Orientals.

27 And so there is certain research projects

1 that we will approve in one particular area or in a
2 couple of cases we have made modifications to the
3 consent form when it is going into a sensitive
4 group. And so that is an example where even within
5 our IRBs we make decisions that would affect how we
6 go with research.

7 DR. SHAPIRO: Thank you.

8 Yes, briefly.

9 MS. KEANE: Very briefly. I want to
10 emphasize that in the behavioral research areas
11 community tolerance for risks and for access to
12 certain populations is best understood by the local
13 IRB and that is an area where I think that the local
14 flavor is very important.

15 DR. SHAPIRO: Thank you. I have quite a
16 few commissioners on my list now so try to keep our
17 questions focused.

18 Jim?

19 PROFESSOR CHILDRESS: This is directed
20 towards Skip Nelson but I would welcome any comments
21 from others.

22 A number of people have proposed Data
23 Safety Monitoring Boards as at least a kind of
24 supplement, valuable supplement to the system we
25 currently have.

26 Skip, in your remarks on page 4, in a very
27 compact sentence, you raise questions about this

1 shift not being well thought out and may undermine
2 the protection of research participants. I would
3 like to get you to say a bit more about that. I am
4 not quite sure how it undermines research --
5 protection of research participants, in part,
6 because the contrast you draw between Data and
7 Safety Monitoring Boards, folks mainly on data
8 reaching a predetermined level of statistical
9 significance, in contrast to information pertinent
10 to the willingness of current participants to
11 continue in research.

12 I am not sure how -- and please inform me -
13 - I am not sure how much information is actually
14 provided to current research participants as a trial
15 goes on that would be really pertinent to their
16 decisions to continue anyhow so I am not sure that
17 having a Data and Safety Monitoring Board function
18 would actually in any way undermine that.

19 And it seems to me that given the
20 inadequate monitoring that we frequently hear about
21 of IRBs in relation to ongoing trials there might be
22 at least some value there. So what I would like to
23 get you to do is say a bit more about this one
24 sentence.

25 DR. NELSON: Part of my concern is the
26 extent to which we have not fully worked out what a
27 Data Safety Monitoring Board would do in any kind of

1 public way. And the variability i models could
2 range simply from a decision that it crosses a
3 statistical point to a very careful consideration of
4 whether or not adverse events are occurring at a
5 frequency, even if not reaching statistical
6 significance, need to impact on whether the study
7 continues or whether people need to be informed.

8 My concern is we have not worked that out
9 or talked about it, or established standards for
10 that.

11 When I, as IRB chair, as I have started
12 over the last couple of years, have asked for the
13 reports of Data Safety Monitoring Boards, I usually
14 end up getting a letter that says something like the
15 Data Safety Monitoring Board has met and decided
16 that the study ought to continue, period. And I
17 think that is clearly insufficient.

18 So, I just think we need to think it
19 through rather than simply appeal to that board and
20 then as a black box it will solve our problems. I
21 agree with your comments. I think this is
22 influenced somewhat by an article that came out in
23 IRB in January/February that talks about the tension
24 between statistical significance versus whether
25 someone would be willing to remain in a trial even
26 with that information.

27 DR. SHAPIRO: Any other? Mr. Nelson,

1 briefly.

2 MR. NELSON: Just very briefly. We
3 recently had a think tank on DSMB-IRB interactions
4 that was held at Duke University and representatives
5 from all those communities and Ernie was there, and
6 others, and I went into that conference really
7 aching for DSMB reports to be relayed on because, as
8 Skip has alluded, there are mandates coming out of
9 NIH dated June of '98 and June of '99 that first
10 established DSMBs for multicenter studies and then
11 in June of '99 demanded that those aggregate reports
12 be passed along to IRBs.

13 I can tell you, and I told NIH at that
14 conference, and they were surprised to hear it, that
15 those reports are not being passed along. We engage
16 in a huge number of cooperative trials and rarely
17 see a DSMB report and when we do it may be a letter
18 just that succinct.

19 The other thing, by the end of this two
20 think tank I was really disheartened because having
21 gone in thinking they can perform the role that we
22 are poorly equipped to do, by the end of the
23 conference when the DSMB people told us how they
24 actually operate, it was disheartening to learn that
25 they actually consider some of their information
26 proprietary or they make decisions not to pass
27 things along to an IRB. So the very group we were

1 going to pass the buck along to in some way was not
2 feeling free to communicate with us.

3 DR. SHAPIRO: Eric?

4 DR. CASSELL: A number of you talked about
5 how important it is to educate your investigators
6 and your IRB. Would you be more specific about who
7 would do the educating, how much education you are
8 talking about, and when it would take place, and who
9 would pay for it?

10 MR. NELSON: Those are all questions we are
11 asking with the new NIH mandate that says go out and
12 educate but stops at that point. We know we can get
13 shut down if we are not doing it well enough but we
14 do not know the answer to many of those questions.

15 DR. CASSELL: Well, then what would you
16 like?

17 DR. STINSON: I can make a statement on
18 that. Really in my original presentations I had a
19 section on that and decided to remove all issues of
20 costs because of time factor. Certainly the
21 education program has to be varied and it has to be
22 consistent over a long period of time. It is not a
23 one time I have taken the course, give me a
24 certificate, let me send that in to NIH.

25 Activities change. There has to be modules
26 related to various types of research so it is my own
27 personal opinion that there will be a basic module

1 that our investigators will take and then for those
2 dealing with selective audiences like prisoners,
3 pediatric patients, there will be additional
4 modules.

5 In terms of costs, there is a great deal of
6 discussion as it relates to whether we ought to
7 charge in the direct costs for the IRB review. It
8 is my opinion that that is detrimental to our
9 overall efforts because our program is more than
10 just IRB review and approval. It is the program
11 that determines whether you have successful
12 interaction between the physician and the patient as
13 it relates to informed consent about participating
14 in the research.

15 If you are only going to pay for the IRB
16 review, that is probably all you are going to get.
17 Everything else is going to be minimized. My
18 personal opinion is it would be far better if we
19 would include it in that indirect cost and remove
20 the indirect cost. There is a pool for all of the
21 compliance issues and that needs to be moved out and
22 out from underneath it.

23 There is currently a cap of 3.5 percent for
24 administrative costs on the indirect cost pool. So
25 all regulation and all types of education programs,
26 if they are funded by the granting agencies need to
27 come out of that.

1 My personal opinion is compliance issues
2 need to be pulled out of that and we simply pass
3 those costs on to the granting agencies for that
4 portion for which they are supporting. So if we are
5 having an education program, we ought to be able to
6 recover that in our indirect costs, not simply have
7 that included in a cap with everything else that is
8 included within that cap and that includes the
9 participation of individual physician and health
10 care professionals as members of the IRB.

11 3.5 percent is way too low for the
12 administrative burden that academic institutions are
13 asked to adhere to.

14 DR. NELSON: One quick comment -- the IRB
15 chair, in addition to the administrative support.
16 That is one reason why I think local IRBs are
17 important because if you remove that you remove a
18 chair. And I find most of the effective education I
19 can accomplish is in the course of discussing design
20 of protocols and the actual conduct of the research
21 informally one on one in a case based approach as
22 opposed to a classroom approach.

23 In terms of funding it, I think we need to
24 get to the point where that chair position is seen
25 at a medical school, for example, in the same way
26 being dean of students is. You do not find anybody
27 in the dean's office not having support for time

1 spent in that activity.

2 DR. SHAPIRO: Thank you. Diane?

3 DR. SCOTT-JONES: My question is a follow-
4 up to a comment that Dr. Stinson made earlier. You
5 mentioned that it might be useful or that you have
6 on occasion changed a consent form to accommodate
7 various population groups and I was wondering if you
8 could say a little bit more about that. I can
9 imagine that one obvious change would be language.
10 Say if you are in a Spanish speaking community you
11 might need to translate the consent form into
12 Spanish.

13 But what are some other kinds of changes
14 that you might see as appropriate that we should
15 think about?

16 DR. STINSON: There are certainly areas in
17 groups of people who will not respond to a
18 requirement for written informed consent. When I
19 was at the University of Texas Medical Branch in
20 Galveston we had an extremely large Vietnamese
21 population who when you put an informed consent in
22 front of them automatically rejected it. They did
23 not ask any questions. They did not want to know
24 but because of the heritage that they had in terms
25 of the government in having a document that a person
26 signed, they would not discuss anything as it
27 relates to research if the IRB required written

1 informed consent. We certainly had issues of
2 language.

3 We have a project at Wayne State that is
4 the interaction between the Arab community and the
5 African American community, and the dialogues that
6 have to go on between those two groups, particularly
7 within stores, convenience stores, where one group
8 happens to generally own most of those and the other
9 group is the people who will patronize those. And
10 so we had to make some refinements to a consent form
11 to reflect that.

12 Those were some areas where we have had to
13 make some changes.

14 DR. SHAPIRO: Thank you.

15 DR. STINSON: Did you understand that? I
16 saw your eyebrow sort of wink there.

17 DR. SHAPIRO: Are you satisfied, Diane?

18 DR. SCOTT-JONES: Yes. I was not quite
19 sure what you meant about changing consent for the
20 Arabs and African Americans in Detroit.

21 DR. STINSON: Well, in that particular one
22 it was about the documentation and the fact that we
23 were videotaping those interactions. Really what
24 was happening, we were taking the security cameras,
25 the film from the security cameras and using that as
26 research data. And so one group was much more
27 sensitive about that than the other one.

1 DR. SHAPIRO: Alex?

2 PROFESSOR CAPRON: A comment and a question
3 for the panel. The comment is that we have heard
4 from several witnesses now concerns about IRB access
5 to and sharing of proprietary information. We have
6 heard about the relationships to the Data Safety
7 Monitoring Boards. We have heard about what
8 information coming out of the partial statistical
9 analysis would be conveyed to subjects and I want to
10 ask quite explicitly that staff begin to develop
11 some responses on these issues.

12 I think that the latter issue is a
13 particularly complex one because on the one hand
14 there is a sense that subjects in research should
15 have all the information, all the relevant
16 information. At the beginning of a research project
17 we allow the researcher and the IRB to apply some
18 kind of scientific standard as to what information
19 is relevant, the fact that a drug has had certain
20 adverse consequences in anecdotal use would not
21 necessarily rise to the level of saying that there
22 is a danger that you ought not to do this, and part
23 way through a trial the data from a scientific point
24 of view may be equally unprobative, and I think we
25 need to think about that, and I hope that the staff
26 will come up with it.

27 My question for the panel is about the

1 risk/benefit and the risk assessments, and certainly
2 a good deal of what you all have said, and I have
3 heard you all be quite uniform on this issue of the
4 local variation and the value of local IRBs based
5 upon local knowledge, and nevertheless I think from
6 a public point of view for a long time there has
7 been a sense that it is somewhat bothersome if IRBs
8 look at the same trial and some approve it and some
9 do not.

10 And part of the explanation can be we know
11 our local community, we know their sensitivities, we
12 know there are investigators here who can handle
13 that, at another IRB they do not think the
14 investigators can handle it.

15 But what I wanted to get a sense of is do
16 you think there is any uniformity on the assessment
17 of risks? Is there any resource to which IRBs can
18 look? Sort of an encyclopedia of agreed upon risks
19 for certain procedures?

20 I mean, whether it is a blood draw or a CAT
21 scan or a psychological testing instrument. Because
22 if variation is occurring because IRBs have wildly
23 different ideas about what at a statistical level
24 the different outcomes are from the use of different
25 interventions with particular populations, that is a
26 more bothersome and maybe even indefensible reason
27 why certain populations would be exposed to research

1 and others would not or conversely certain
2 populations would have access to whatever benefit
3 comes from research and others would not.

4 Has the IRB community ever developed
5 anything like that?

6 MR. NELSON: We are all looking at each
7 other wondering who is going to tackle that. In
8 response to your first comment, if your staff is
9 going to dive into that, I will just refer them to
10 Jeremy Sugarman and Rob Kaliff who brought together
11 this think tank at Duke on the DSMB-IRB interactions
12 and are putting together proceedings from that
13 conference.

14 But the -- along with the issues that I and
15 everybody else raised that you have just alluded to,
16 also on my list of issues and problems was the
17 variability that you have also just alluded to, and
18 it is a problem. I think the question is how to
19 have our cake and eat it, too, to maintain and
20 preserve that local knowledge of customs, of norms,
21 of patient groups, of investigator groups but yet
22 have some more of a consensus approach to the big
23 ticket items.

24 I do not know that there is a dictionary or
25 an encyclopedia. I think a positive step was the
26 relatively recent -- I think it was November of '98
27 when the expedited review categories list was

1 expanded with examples of different categories and
2 that at least take a baby step with agreement,
3 surprise, surprise, between FDA and DHHS, which was
4 also positive, toward identifying and giving us some
5 better guidance than we had rather than just saying
6 nebulously defined minimal risk, go at it, they
7 started to put some context there and some examples.
8 That has been a positive framework from which to
9 make some of these decisions.

10 DR. SHAPIRO: Mr. Stinson?

11 MR. STINSON: I would simply like to make
12 the comment that an IRB is made up of individual
13 people. Many of those are physicians whose
14 standards of care differ from their colleagues. So
15 you find what is the standard of care within the
16 Detroit medical center or particularly Detroit
17 Receiving is substantially different than what is
18 acceptable at the Medical College of Georgia where
19 we happen to have a joint project going.

20 Because those standards of care vary, also
21 the perceived risks associated with that vary, and
22 so you have got professional judgment coming into
23 play there. So it may be very difficult, and I
24 think that is the reason why there has been some
25 reluctance about translating that down to some
26 numbers or something.

27 DR. SHAPIRO: Dr. Nelson?

1 DR. NELSON: To make a distinction, I think
2 what I hear you asking is all of us could agree
3 about hopefully the risks of a blood draw. In
4 different hands bruising may be more of a risk than
5 in other hands and that is where the local variation
6 might come in. And in the assessment portion would
7 be whether we would or would not consider that
8 minimal risk and there will be variability.

9 I would hope there is no variability in
10 simply the list of what could possibly happen.
11 There would be local variation in the percentages of
12 that risk which may reflect some of the differences
13 that were just referred to and then wider
14 variability and whether that does or does not
15 constitute minimal risk in the assessment of how
16 that would be incorporated within the protocol.

17 I agree there should not be much variation
18 in just what we might state are the facts but you
19 very rapidly develop variation.

20 DR. SHAPIRO: Thank you. I want to ask the
21 commissioners who want to still speak to direct one
22 question at one person and despite the great
23 resources we have at the end of the table let's not
24 ask all of them. We just cannot get through this
25 list and we have a schedule to keep to.

26 Steve, you are next.

27 MR. HOLTZMAN: Thank you all for your

1 testimony. I will direct it to D. Nelson because I
2 think he has a broad role in PRIMR and ARENA
3 relative to us.

4 We sent out a letter to over 4,000 IRB
5 chairs in connection with this project to ask them
6 their thoughts. We have gotten back 11 so far. But
7 nine percent of them, namely one of them, made the
8 following statement.

9 (Laughter.)

10 DR. SHAPIRO: We may need a DSMB to figure
11 that out.

12 MR. HOLTZMAN: I will quote from it. "The
13 progressive commercialization of medical research by
14 market forces and the corrosive role that
15 pharmaceutical companies play in this process
16 represent a major threat to the autonomy of the
17 IRBs."

18 My question is, is that consistent with
19 your experience, number one? And, number two, if it
20 is, thoughts and suggestions to the pharmaceutical
21 industry so we would be somewhat less corrosive.

22 MR. NELSON: Whether corrosive or abrasive
23 or demanding, I am not sure which adjective to use.
24 But on your first point I think it is great that you
25 sent out letters. We got our's. I do not know if
26 we have responded but I guess we are responding by
27 coming here today. But I hope you get more because

1 that is very positive that you solicited that input.

2 I would say that we, and I suspect the vast
3 majority certainly of institution based IRBs feel
4 like we have a pretty free hand to take the right
5 stance and to do our jobs. In other words, yes,
6 there is pressure from industry.

7 It is relayed through our investigators who
8 are told in no uncertain terms, look, you need to
9 hit the ground running because we have an enrollment
10 target and it is going to be hit by such and such a
11 date, and it might be a few months away. So if your
12 IRB takes two months to get an approval to you, you
13 might as well forget about participating.

14 Well, that is a pressure that gets
15 translated through the pipeline but I cannot say we
16 have changed -- we, too, as Ernie said, view our
17 relationship as a partnership. We like to think we
18 are facilitating research and helping it go on in
19 the right way.

20 We have moved to a weekly IRB meeting
21 primarily to deal with six hour IRB meetings, which
22 is a drain on anybody just to get through the volume
23 that we have. But also a secondary aim is to be
24 more responsive and to help people hit the ground
25 running when we can.

26 I suspect that there are many good central
27 IRBs and I have a great deal of respect for many in

1 that community. The independent or commercial IRB
2 community. They are closer to being subject to that
3 kind of influence because, in fact, they are a
4 business, too, and their livelihood depends on being
5 responsive to another business entity, the
6 pharmaceutical sponsors. And that is not to say
7 they bend over backwards or let themselves be
8 twisted in knots either but they are more exposed to
9 the -- they are vulnerable, if you will, using
10 yesterday's talk.

11 We have very little direct interaction with
12 sponsors and we kind of like it that way. We view -
13 - we hold our investigators responsible and let them
14 know that they are responsible at the local level
15 and one way of doing that is to ensure that
16 communications flow in between -- flow through the
17 investigator from sponsor to IRB and back in the
18 other direction, and it keeps them in the loop and
19 lets -- sends a message that they are in the
20 driver's seat.

21 When I have directly communicated with
22 sponsors it usually is not a happy experience for
23 either of us because they have different goals in
24 mind than we do. I think there is a lot for cross
25 talk there and cross education as to mutual needs
26 and obligations and expectations. How to accomplish
27 that, I am not sure, but there is some tension

1 there. We are viewed as the bad guys.

2 Increasingly, however, there are other
3 parts of the bureaucratic system in place at
4 certainly large institutions in addition to just the
5 IRB. We are no longer the only whipping boy in
6 town. There are offices of contracts and grants or
7 offices of research services that, in fact, take
8 longer to work through the system than the IRB often
9 does these days.

10 DR. SHAPIRO: Thank you. Trish?

11 PROFESSOR BACKLAR: I would like to thank
12 you all for coming. It is very edifying for us to
13 have this discussion. I actually want to go back to
14 something that Dr. Stinson said and I am not certain
15 that you answered a problem that you brought up,
16 which was a community of people who were afraid to
17 sign the informed consent form.

18 I am wondering how you dealt with that?

19 DR. STINSON: Well, under the regulations
20 the IRB can waive informed consent or the
21 documentation of informed consent. So in that
22 particular case what we did was that we did have an
23 individual who participated in the informed consent
24 process with the investigator and with the research
25 subject. That individual had to be -- in this
26 particular case it was Vietnamese and understand the
27 Vietnamese language, and they documented that the

1 individual actually did give consent to participate
2 in the project. So it was the observer that
3 documented informed consent, not the research
4 subject. The research subject would never have been
5 willing to have participated.

6 PROFESSOR BACKLAR: Thank you.

7 DR. SHAPIRO: Thank you. Larry, you have
8 the last question?

9 DR. MIIKE: No.

10 DR. SHAPIRO: Marjorie?

11 DR. SPEERS: This question is either for
12 Dan or for Moira.

13 Very often when we talk about this issue of
14 local IRB review versus a central IRB review we
15 think of it in terms of the multisite clinical
16 trials and so we think of it in terms of the -- of
17 IRBs throughout the country, you know, and a trial
18 being conducted in many different places.

19 The issue comes up also in the local
20 setting where even within your own setting there
21 could be five or seven or 42 IRBs that are looking
22 at the same research study. And when we are talking
23 about multiple IRBs in the same local area, in the
24 same community, looking at the same study, then some
25 of the arguments for local IRB, I think, seem to
26 break down.

27 And so I would like to hear one of you

1 comment on this issue when what we are talking about
2 are multiple IRB reviews occurring within the same
3 community.

4 MS. KEANE: I will take a quick stab at
5 that. I think we have two levels of concern here.
6 One is local IRB review based on a community
7 standard and understanding of the tolerance of
8 participants for a certain project. The other is
9 the standard of the IRB and not every IRB is as
10 sophisticated or equal to the task. So even in a
11 fairly small community area you could have varying
12 degrees of capacity to review a project
13 appropriately.

14 I do support some kind of neighborhood
15 collaboration, if possible, to try to reduce the
16 number of local IRB reviews that are necessary to
17 satisfy a bureaucratic requirement. I think we have
18 to look at that very carefully and decide how we are
19 going to balance institutional risk and subject risk
20 in that equation.

21 DR. SHAPIRO: Thank you. A comment?

22 MR. NELSON: Just very briefly. There are
23 mechanisms under the current regulations and
24 hopefully under the future regulation that provide
25 some sharing of some cooperative review. The first
26 time this came to our attention at UNC was when,
27 Marjorie, yourself, brought it to our attention when

1 you were at the CDC and we entered a cooperative
2 review agreement with a collaborative study that
3 involved both institutions.

4 Certainly closer to home we have been
5 increasingly using that mechanism. We do a lot of
6 sharing of resources and investigations that take
7 place at Duke at our institution. They are getting
8 better all the time and we are interested in
9 deferring to them when we can and vice versa,
10 depending on the locus of the activity and the
11 nature of the activity.

12 At some point deferring -- I do not know
13 that that goes on a lot. I do not know that every
14 institution is aware that that exists. And some
15 institutions -- because it does get back to the
16 protecting the institution part of what we do. I
17 think certainly our primary role in life is to
18 protect the subject but when we do that by default
19 we start protecting investigators and institutions.

20 And university counsels like to keep things
21 close to home for that sort of reason.

22 So there are some barriers to everybody
23 sharing review even in the same neighborhood but
24 there are mechanisms there.

25 DR. SHAPIRO: Thank you. Once again I want
26 to thank all of you for taking the time to be here
27 today. I very much enjoyed. Your comments were

1 very helpful to us. So thank you very much.

2 For the commission we will adjourn now and
3 reassemble at 1:30. Thank you very much.

4 (Whereupon, at 12:27 p.m., a luncheon
5 recess was taken.)

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

PANEL VI: PERSPECTIVES OF THE OVERSIGHT
SYSTEM FROM RESEARCHERS

DR. SHAPIRO: We are missing a few commissioners here but I would like to get started. Once again I want to thank all the panelists for coming here and sharing their thoughts with us. We very much appreciate the time you have taken to be here.

Before turning to the panel, Marjorie, is there anything you would like to say before introducing the panel?

DR. SPEERS: I would like welcome our panelists for this panel which will be looking at perspectives of the oversight system from the researcher's perspective.

This panel is comprised of four clinical researchers and just to remind the commissioners that you have heard from other researchers, particularly researchers from the social sciences and some of the issues that they have with the oversight system and the IRB system and today you will be hearing about issues and concerns specifically related to clinical research, biomedical research.

Let me introduce our panelists. The first is Dr. Susan Murphy, who is professor of pediatrics

1 at Northwestern University School of Medicine, and
2 she is also chair of the Pediatric Oncology Group.

3 Second is Dr. William Burman, who is an
4 attending physician at the Denver Department of
5 Public Health.

6 Third is Dr. Monica Farley, who is
7 professor of medicine at Emory University, School of
8 Medicine, and on the staff at the Atlanta VA Medical
9 Center.

10 And our fourth is Dr. Samuel Wells, who is
11 director of clinical trials and evidence-based
12 medicine for the American College of Surgeons.

13 Welcome.

14 We would ask each of you to make your
15 opening remarks and after you have done that then we
16 will open it for questions and discussion with the
17 commissioners.

18 Dr. Murphy, would you like to begin?

19 SHARON B. MURPHY, M.D.,

20 PROFESSOR OF PEDIATRICS

21 NORTHWESTERN UNIVERSITY SCHOOL OF MEDICINE

22 DR. MURPHY: If I may, I just want to
23 clarify. My name is Sharon Murphy.

24 DR. SPEERS: Oh, I am sorry.

25 DR. MURPHY: That is all right.

26 DR. SHAPIRO: Sharon.

27 DR. MURPHY: Yes.

1 I want to thank you very much for the
2 opportunity to present the testimony to you today on
3 a number of issues relating to ethical and policy
4 matters regarding oversight of human subjects.

5 I want to share a number of concerns with
6 you and provide a few suggestions but first, if I
7 may, I want to give you some more personal
8 background to provide you with a better idea of
9 where I am coming from.

10 I am a clinical pediatric oncologist and I
11 am testifying before you today from the point of
12 view of a clinical cancer researcher. My research
13 subjects, therefore, are not healthy volunteers. I
14 lead also a busy hospital based subspecialty
15 division of hematology and oncology at the largest
16 children's hospital in Chicago where we currently
17 have 61 open IRB approved protocols and we are
18 enrolling approximately 50 to 60 percent of our
19 eligible patients on clinical trials.

20 For the last eight years I have also been
21 privileged to serve as chair of the pediatric
22 oncology group, an NCI sponsored cooperative
23 oncology clinical trials group, which annually
24 enrolls over 1,800 children and adolescents with all
25 forms of pediatric malignancies on two therapeutic
26 trials, as well as hundreds more annually on
27 biologic studies of translational research,

1 correlative science and cancer control and
2 epidemiology.

3 The Pediatric Oncology Group, just to tell
4 you a bit about it, we have over 100 member
5 institutions and over 2,000 individual professionals
6 in our group. And we have recently joined with
7 three other groups, the Children's Cancer Group,
8 National Wilms' Tumor Study Group and the Intergroup
9 Rhabdomyosarcoma Study Group, roughly doubling our
10 size and merging all of the pediatric clinical
11 cancer trials groups into one. We have
12 christened this baby COG, the Children's Oncology
13 Group.

14 With the merger, our members are
15 responsible for most of the cancer care delivered to
16 children and adolescents throughout the entire
17 United States, Canada, Australia, New Zealand and
18 Switzerland, and we conduct nearly all of the
19 pediatric cancer research in North America.

20 To supplement my presentation I have
21 provided you with written background material
22 detailing the extensive safeguards we have in place
23 for protection of human subjects in our oncology
24 clinical trials group. Policies and procedures
25 which are, of course, in compliance with all the
26 terms of our U10 cooperative agreement through which
27 we are funded by NCI and in keeping with the Common

1 Rule and OPRR and NIH Guidelines.

2 So you can see I am speaking to you today
3 with a great deal of familiarity and long experience
4 both as a physician and as a clinical investigator
5 involved both in single institution and multiple
6 institution trials.

7 And though I am a pediatrician and deal
8 with a particularly vulnerable and special
9 population of research subjects, i.e. children with
10 cancer, I also have a lot of familiarity with all of
11 the NCI sponsored cancer cooperative groups targeted
12 primarily to adults from my experience as chair of
13 the cooperative group chairs for NCI and as a
14 founding member of the Coalition of National Cancer
15 Cooperative Groups.

16 A lot of the issues I will touch on
17 relating to centralized IRBs later in my remarks
18 actually apply equally well to all other large
19 multi-institutional federally sponsored research
20 endeavors.

21 Now in my daily work, I function thus at
22 the interface, both as a physician and as an
23 investigator. Indeed, in pediatric oncology the
24 boundary between research and practice is not a
25 bright line because clinical trials are the standard
26 of care in our discipline. And the majority of
27 children with cancer in this country are enrolled on

1 clinical trials.

2 Arguably, the spectacular advances in cure
3 rates and overall survival for children with cancer
4 are the result of this commitment to clinical
5 research which characterizes pediatric oncology and
6 makes us the model.

7 There is quite a bit of evidence that
8 patients benefit from participation on clinical
9 trials simply by being included in a rigorous
10 research protocol. And there is, furthermore, a
11 substantial body of evidence that the survival of
12 children and adolescents with cancer is better when
13 they are treated on clinical trials compared to
14 those who are not enrolled on protocols.

15 Cooperative group trials you have to
16 understand undergo extensive research to assess each
17 new protocol concept on a number of things. The
18 importance of the question being asked, its
19 relationship to current standards of care, and the
20 risk/benefit ratio for the subjects who would
21 qualify for entry as detailed by the eligibility
22 criteria for the study before the protocol even gets
23 to the local IRB or to the potential trial
24 participant.

25 Our trials and those of most sponsored
26 groups typically incorporate reference laboratories
27 enabling enlightened patient specific biologic

1 treatment stratification and providing the study
2 subjects with the benefit of the most sophisticated
3 diagnostic and staging practices available.

4 All our group clinical trials are reviewed
5 not just internally but also externally by the NCI
6 and by, of course, all of our local member
7 institutional IRBs.

8 Toxicity is closely monitored. Adverse
9 events are reported centrally, interim results are
10 scrutinized at intervals by our statisticians and
11 independent data and safety monitoring committees.
12 Protocol outcomes are very carefully analyzed and
13 reported, and lead to the establishment of improved
14 treatments and elimination of ineffective therapies.

15 So I kind of take offense at the ethical
16 concept of therapeutic misconception, which seems to
17 me at least to be an oxymoron. And I do not
18 understand why the definition of research
19 presupposes some type of harm attached.

20 In preparation for this testimony I have
21 really tried to put myself in your shoes as
22 commissioners and, like you, I am deeply concerned
23 about high profile tragic outcomes and highly
24 publicized evidence of individual and institutional
25 failures to adequately protect human subjects and
26 follow acceptable standards for the conduct of
27 clinical trials.

1 This hurts all of us and destroys the
2 public trust. Placing pressure on you to expand
3 protections and enlarge the scope of regulations.
4 Simultaneously we have all heard Secretary Shalala
5 and the Clinton Administration have announced
6 several new steps to strengthen federal oversight,
7 policing clinical trials and clinical researchers
8 and IRBs, even including proposals for civil
9 monetary penalties for violations.

10 You must be careful not to issue
11 recommendations which risk strangling the biomedical
12 research enterprise which would have the net effect
13 of preventing access of patients to potentially life
14 saving treatment on trials.

15 A great deal has been written about the
16 crisis in academic medicine in this country and the
17 clinical investigator as an endangered species on
18 the brink of extinction.

19 The climate for research is deteriorating
20 and I am quite concerned about the chilling and
21 negative impact of sanctions and stepped up
22 enforcement on our ability to recruit and train and
23 retain the best and the brightest clinical
24 investigators, who after all will be responsible for
25 the future progress in research.

26 So I urge you not to throw the baby out
27 with the bath water and to bear in mind why it is

1 that patients participate on trials. Many suffer
2 from conditions for which standard treatment does
3 not work and they hope for the chance to try
4 promising treatments otherwise unavailable to the
5 public.

6 Just witness the intense interest of cancer
7 patients in participating in trials of
8 antiangiogenesis agents. In a recent Harris Poll
9 surveying public attitudes towards cancer clinical
10 trials the evidence was overwhelming that clinical
11 trials participants reported positive experiences.
12 97 percent of trial participants reported that they
13 were treated with dignity and respect and received
14 excellent or good quality care believing as well
15 that by participation they got more care and
16 attention and they benefitted both themselves and
17 others.

18 Now I want to conclude my remarks with a
19 discussion of issues surrounding informed consent
20 and IRBs highlighting the rationale for centralized
21 IRBs for multi-institutional cooperative group
22 trials notwithstanding the previous panel that
23 advocated for local IRB control. And the issues
24 that I want to touch on are actually outlined in
25 much greater detail in the written material
26 accompanying my testimony prepared by colleagues
27 from the Coalition of National Cancer Cooperative

1 **Groups.**

2 I believe it has hurt everyone that there
3 are inadequacies in local IRB oversight of clinical
4 trials but I am not so sure there is sufficient
5 appreciation that most local IRBs at the present
6 time are simply not adequately staffed or supported
7 to carry out all the tasks they need to nor do they
8 always have sufficient local expertise to ensure
9 adequate human subjects protection.

10 So it seems inconceivable to me how federal
11 agencies expect to hold local IRBs more accountable
12 for research results, regulation of compliance,
13 conduct of education, seminars, annual audits of
14 safety protocols, and assurance that informed
15 consent is obtained properly even to the point of
16 direct third party observation of the process.

17 What are you thinking?

18 Add to that the local institutional
19 attempts to use IRBs for purposes other than the
20 protection of human subjects, including enforcement
21 of legal or fiscal policies of the local institution
22 and risk indemnification.

23 Serving on an IRB or, God forbid, chairing
24 one is a thankless task and it is time for
25 investigators, institutions and IRBs everywhere to
26 pursue innovative strategies to ease regulatory
27 burdens without compromising human subject

1 protection. One solution may be centralization of
2 IRBs for multi-institutional trials, which at least
3 would have the effects of reducing the variance in
4 local interpretation of regulations and also cutting
5 costs of compliance.

6 I call your attention to the last appendix
7 in the written material submitted to accompany my
8 testimony, which gives you a very careful assessment
9 of the institutional resources required to maintain
10 regulatory compliance to participate in multi-center
11 clinical trials.

12 In there you will find details of the
13 estimate provided that it costs \$2,580 per patient
14 enrolled on an intergroup cancer trial conducted at
15 multiple sites to maintain regulatory compliance
16 alone, not including any of the costs of actually
17 conducting the research itself.

18 So I ask you to carefully consider what
19 benefits in terms of prevention of harms or wrongs
20 would come from added costs of compliance with
21 expansion of rules and regulations or whether
22 investigators or institutions will simply quit and
23 conclude they cannot afford it or cannot stand it
24 any longer.

25 Lastly, as you prepare your important
26 report on oversight of human research, I would like
27 to voice my concern regarding your draft

1 recommendation to extend the definition of human
2 subject research to include such things as
3 surveillance, program evaluation, quality
4 improvement, medical records review or medical
5 monitoring, thus expanding the definition of a
6 regulated activity and potentially expanding the
7 work scope and responsibilities of IRBs even further
8 while creating more bureaucracy.

9 This strikes me as a bad idea which will
10 surely hamper health services research and hinder
11 efforts to measure and improve the quality of
12 medical care in this country. And it also seems to
13 me that observation and surveillance of medical
14 outcomes constitutes good ethical and medical
15 practice, and provided patient privacy is protected,
16 presents minimal or no risk to patients. So why
17 subject such activity to more regulation? Where is
18 the harm?

19 In summary, I would really like to thank
20 you for your attention to the concerns of
21 researchers like me and I would be pleased to answer
22 any questions about my testimony after the other
23 speakers.

24 DR. SHAPIRO: Thank you very much and I
25 also want to thank you for the very extensive
26 written material you provided. It is extremely
27 helpful, both the appendices to your work and the

1 actual document itself, so I want to thank you and
2 your colleagues who assisted you in putting that
3 together. At least I, speaking for myself, found
4 that very, very helpful and it has been distributed
5 to all members of the commission.

6 Now the way we run the panel, I am just
7 going to ask for clarifying questions now and allow
8 your colleagues to speak, and then we will get to
9 more general questions.

10 Larry, a clarifying question?

11 DR. MIIKE: Just a clarifying question on
12 the issue about -- that you had mentioned relating
13 to the therapeutic misconception and that the
14 majority of the children enrolled in your trials get
15 -- are better off than those that are not.

16 Am I assuming correctly that you are
17 dealing with the most difficult -- in your consortia
18 you are dealing with the most difficult cancer cases
19 for which there often is no effective prevailing
20 treatment and if you are not -- if you are talking
21 about better level of care, are you talking about
22 not so much the effects of the experimental drug but
23 all of the care that goes around being enrolled in a
24 trial?

25 DR. MURPHY: Let me try and clarify. Thank
26 you for the question.

27 We conduct Phase I through IV trials, if

1 you will. Phase III are the majority, are,
2 therefore, for your "walk in the door" previously
3 untreated child with any form of leukemia or solid
4 tumor or brain tumor so they are not the worst
5 cases. In fact, through research now approximately
6 75 to 85 percent of all children with cancer in all
7 stages and types are curable.

8 We also do Phase I/II research for patients
9 who have failed front line therapy. Now the other
10 part of your question had to do with how did we -- I
11 am sorry -- distinguish the treatment from the
12 research?

13 DR. MIIKE: No. I am curious about the
14 statement that those that are in the clinical trials
15 get better care than those without.

16 DR. MURPHY: Actually the evidence I
17 referred to is a substantial body of published work
18 in pediatrics at least that it is not that they get
19 better care, they have better survival rates, better
20 outcomes. We believe the care to be excellent in
21 the context of clinical trials and what is the
22 standard of care in our profession, in our
23 discipline, and I think you can just point to a
24 large amount of evidence that supports the fact that
25 patients enrolled on studies in protocols have
26 better outcomes than those who are, in fact, off
27 study, off protocol in our discipline.

1 DR. MIIKE: I just want to ask a follow-up
2 question then. Is that a reflection that it means
3 that most of these clinical trials are successful or
4 is that a reflection of something else?

5 DR. MURPHY: It is interesting to speculate
6 what it is due to. I personally think it is a
7 reflection of the most modern, cutting edge, state-
8 of-the-art comparison usually of leading
9 alternatives that are well ration -- you know, the
10 rationale is very strong and it contrasts with
11 saying nonparticipants who may be treated with
12 something already, for instance, off the shelf or
13 published from a decade previously.

14 We are using modern approaches and we use a
15 great deal of discipline in the trial conduct, that
16 is to say including as, in your material, audits,
17 compliance, performance review, toxicity monitoring
18 and I think the rigor itself is what contributes to
19 the better outcome.

20 DR. SHAPIRO: Thank you. Is there any
21 other clarifying question? Again I want to give the
22 panelist time to present.

23 Diane?

24 DR. SCOTT-JONES: I just have a brief
25 follow-up question. So if the outcomes are known to
26 be better, why is it still research and not
27 treatment?

1 DR. MURPHY: Well, I suppose the answer is
2 until we cure 100 percent of our patients we still
3 have to improve things and currently a lot of our
4 research focuses on measuring, for instance, not
5 just the quantity of survival but also the quality,
6 attempts to reduce toxicity, a lot of modeling
7 biologic stratification so that we can tailor the
8 therapy more directly to the risks of the relapse
9 hazard, for instance, based on enlightened biologic
10 understanding of the causes of cancer and genetic
11 factors.

12 So there is plenty of research left to do
13 in oncology in pediatrics as well as in, you know,
14 adults. I hope that is clear.

15 DR. SHAPIRO: Thank you. Dr. Burman?

16 WILLIAM BURMAN, M.D.,
17 ATTENDING PHYSICIAN,
18 DENVER DEPARTMENT OF PUBLIC HEALTH

19 DR. BURMAN: Thank you. I want to thank
20 you for the invitation to speak to this commission.
21 I am a clinical researcher primarily in HIV and
22 tuberculosis treatment. Like most doctors, I cannot
23 speak without slides so I have a few here.

24 (Slide.)

25 I have personally seen in my career the
26 dramatic improvements in clinical care that come
27 from well conducted clinical trials. I have also

1 seen clinical trials protect us from treatments that
2 initially looked great but did not work and so
3 finally I am very concerned as a clinical researcher
4 about the state of local IRBs.

5 As a clinical researcher, the current
6 system is laborious, slow and exasperating.
7 Therefore, I am grateful for the chance to present
8 my concerns.

9 I will also give a little bit of my
10 background because my remarks and my conclusions
11 come very directly from my background. I
12 participate as a principal investigator in a number
13 of industry-sponsored trials of new drugs for HIV
14 infection and opportunistic illnesses and then I
15 also participate in several multi-center clinical
16 trials networks. One, the Community Programs for
17 Clinical Research on AIDS, sponsored by the NIH, and
18 another, the Tuberculosis Treatment Consortium
19 sponsored by the CDC.

20 And then finally, and I will direct quite a
21 few of my remarks to this, I am a clinical
22 investigator at an institution whose IRB privileges
23 were suspended.

24 (Slide.)

25 I wanted to point out initially how
26 concerned we are in my field about protecting
27 vulnerable patients, and to illustrate that I will

1 just give you the background of the baseline
2 characteristics of patients enrolled in a recent
3 large tuberculosis treatment trial.

4 As you can see, the minority were whites.
5 Most were other ethnicities, reflecting the
6 demographics of tuberculosis in the United States.
7 Many were born outside the United States and Canada.
8 Most had less than a high school education and many
9 had recently been unemployed, homeless, in jail, and
10 had significant rates of substance use and daily
11 alcohol use.

12 (Slide.)

13 In the Tuberculosis Treatment Consortium we
14 have a committee on human subjects protection, which
15 I am a member of, and some of the activities of that
16 committee have been developing standard consent form
17 templates using simple language at or below the 8th
18 grade reading level. Just a hint of the problems
19 that can come when doing this is that I have had my
20 own local IRB say you cannot use this language, it
21 is not our standard, and we have to point out to
22 them that their standard reads at the 11.5 reading
23 level, for example.

24 We have also simplified the so-called short
25 form, which is used per the regulations to consent
26 patients who do not read, and in many cases speak
27 English. Again I will say that the OPRR sample

1 consent form that is on the website reads at the
2 11th grade reading level.

3 We are undertaking an initial evaluation of
4 the effect of local IRB review on consent forms. We
5 heard some perceptions from IRB chairs. I am
6 interested in the data. What really happens when
7 consent forms that are approved centrally go to a
8 local IRB? And then finally we are starting a pilot
9 project to have local IRBs cede their oversight to a
10 central IRB at the CDC.

11 (Slide.)

12 In October of 1999, the IRB privileges at
13 the University of Colorado Health Sciences Center
14 were suspended. That included there could be no
15 consideration of new studies. There could be no
16 enrollment in previously approved federally
17 sponsored or federally regulated clinical trials.
18 That was actually quickly expanded to all clinical
19 trials, period. Actually, all clinical and
20 epidemiologic trials.

21 There was to be no further follow-up of
22 patients previously enrolled without the written
23 exemption from the IRB and all of this lasted for
24 four months, and actually longer because at the end
25 of four months all 2,500 protocols had to be
26 rereviewed, a process which has taken many months.

27 The reasons for the suspension as quoted in

1 the letter from the FDA included failure to conduct
2 continuing review of ongoing research and failure to
3 prepare and follow detailed written procedures for
4 conducting review of research.

5 (Slide.)

6 Let me just tell you about our IRB, and I
7 will say I am not a member of it, and I am not
8 revealing anything that is not available on the FDA
9 website.

10 They had approximately 2,500 open protocols
11 at the time of the suspension and were considering
12 approximately 1,000 new protocols per year. All of
13 this was to be done in 23 meetings of about three
14 hours each throughout the year, at which time they
15 approved approximately 25 protocols per meeting, as
16 well as conducting continuing review and examination
17 of protocol amendments and review of adverse events.

18 And then prior to the suspension,
19 interestingly enough, the expectation from the
20 institution was that the volume of clinical research
21 would double in the next five years.

22 I listened to the comments of the IRB
23 chairs about carefully considering local populations
24 and I am left with skepticism. When does that
25 happen in a schedule like this?

26 The bottom line is our IRB was overwhelmed
27 completely. Many other local IRBs, I suspect most,

1 are in similar situations.

2 (Slide.)

3 A review in the Journal of the American
4 Medical Association in 1996 concluded that local
5 IRBs are operating in a pressure cooker atmosphere
6 and asked whether they would "explode or change."
7 The response to the crisis in local IRB function has
8 been clear from the regulatory side. We need
9 increased enforcement, make the existing system
10 work, force institutions to provide adequate
11 resources to local IRBs, but I suggest another
12 approach is to ask why. Why are local IRBs
13 overwhelmed?

14 I think the answer is the ascendance of
15 multicenter clinical trials. Although it is
16 difficult to find definitive data, and I will say
17 that the lack of data about research oversight is
18 remarkable, and I think there is little doubt that
19 multicenter clinical trials are the dominant form of
20 research in humans.

21 One estimate is the number of multicenter
22 clinical trials increased by 42 percent in just five
23 years. Another indication is that the recently
24 developed NIH clinical trials website, which lists
25 federally sponsored multicenter clinical trials,
26 currently has a roster of 4,000 ongoing multicenter
27 clinical trials.

1 The present human subjects protection was
2 not developed for multicenter clinical trials, much
3 less this volume of multicenter clinical trials, and
4 the problems faced by local IRBs as a result of this
5 expansion, I will say laudable in my view, expansion
6 of multicenter clinical trials are simply the large
7 number of protocols to undergo initial review, and
8 then I said thousands, I should say tens of
9 thousands of safety reports of serious adverse
10 events.

11 Let me illustrate my concerns about local
12 IRB involvement in multicenter clinical trials with
13 an example.

14 (Slide.)

15 A drug, adefovir. This was a promising
16 nucleotide drug with activity against -- in vitro
17 against HIV, several herpes viruses and hepatitis B,
18 so very potentially promising in patients who are
19 co-infected with all of those.

20 Furthermore, in initial trials it could be
21 given with once daily dosing and was well tolerated
22 in the short-term.

23 However, when subjected to long term
24 randomized clinical trials, 17 to 32 percent of
25 patients developed nephrotoxicity. Fortunately
26 reversible in nearly all of them.

27 On the basis of this toxicity and its

1 modest antiretroviral activity, an FDA advisory
2 committee recommended against approval and the
3 company withdrew the drug from further development
4 for HIV treatment.

5 So my summary of this is that the system
6 worked. A promising drug was evaluated in well
7 conducted randomized clinical trials. An unexpected
8 toxicity was identified and handled appropriately
9 but it is important to look at how this all occurred
10 with the local IRBs.

11 (Slide.)

12 Nephrotoxicity was identified at the data
13 centers and the Data Safety Monitoring Boards of the
14 randomized trials. After it was identified,
15 investigators, and I was one, and patients were
16 promptly informed, and I think very well informed in
17 a brief letter from the Division of AIDS.

18 And it is important to note that local IRB
19 review of the tens of thousands of serious adverse
20 event reports from this trial did not detect
21 adefovir nephrotoxicity and, in fact, could not
22 have. It was impossible because they did not have
23 the access to the data elements which would make the
24 evaluation of those adverse event forms meaningful,
25 specifically the denominator data. How many people
26 were taking the medicine. And, secondly, what the
27 study assignment was from double blind clinical

1 trials.

2 And so as summarized by an NIH panel, the
3 receipt of data that are neither aggregated nor
4 interpreted does not provide useful information to
5 the IRB to allow it to make an informed judgment on
6 the appropriate action to be taken, if any.

7 (Slide.)

8 So, in conclusion from this example, local
9 IRB review of the thousands of safety reports from
10 multicenter clinical trials is an example of an
11 unnecessary redundancy in the present system. Data
12 centers and Data Safety Monitoring Boards
13 appropriately protect patients safety in well
14 structured multicenter clinical trials. So local
15 IRB review of these does not contribute to patient
16 safety but does contribute to IRB -- the paperwork
17 crisis of local IRBs.

18 Are there other redundancies? Like the
19 previous speaker, I wonder if initial IRB review of
20 multicenter clinical trials provides something good.
21 We have reviewed the experience in our consortium
22 with eight recent protocols and found no changes in
23 protocol because of local IRB review by the 25 sites
24 in our consortium.

25 But, furthermore, this review takes time
26 and I illustrate that with this slide here. These
27 are two recent studies done in our consortium which

1 has the unique aspect of being sponsored by the CDC
2 that there is both a local and a central IRB. As
3 you can see, the mean time to approval by the local
4 IRB approaches four months. In some cases, it was
5 as long as eight months. While the central IRB was
6 substantially faster with about a three to four week
7 approval time.

8 So it is unclear that local IRB review has
9 positive effects on protocol but it is clear that
10 this review delays research.

11 Finally, let me consider consent forms
12 which should be an indicator of whether the local
13 IRB is assuring that clinical research is performed
14 in a manner fitting to local populations.

15 (Slide.)

16 The answer from studies over the last 20
17 years is that most consent forms approved by local
18 IRBs are written at a completely inappropriate
19 level. And I illustrate this with some data from a
20 study back in 1980, although I could give you
21 references for studies into the mid '90s with the
22 exact same conclusion, which is that most consent
23 forms are written at approximately the reading level
24 of the Journal of the American Medical Association
25 rather than at a level which is appropriate to the
26 patient population.

27 So the data suggests that the kind of

1 careful customizing of consent forms to the
2 characteristics and attitudes of local populations
3 must be uncommon because it is not evident in
4 studies that adequately evaluate this.

5 So in my outsider's view, local IRBs are
6 drowning in a sea of paperwork generated by
7 multicenter clinical trials and a critical review of
8 the role of local IRBs in the oversight of these
9 trials suggest that most of this activity is
10 redundant and does not contribute to patient safety.

11 Furthermore, it is clear that local IRB
12 review of multicenter clinical trials does introduce
13 substantial delays.

14 My suggestions for a system for the future
15 will echo some of my predecessor's comments.

16 (Slide.)

17 First, I think we need streamlined initial
18 ethical review of multicenter clinical trials using
19 a centralized IRB or a combination of central and
20 limited local IRB. And I will just note several
21 pilot projects in NCI in the Tuberculosis Trials
22 Consortium evaluating that possibility.

23 The British have recently published the
24 initial results of a similar system which are
25 certainly mixed but I think are a step in the right
26 direction.

27 I think we need standardized consent forms.

1 I think that most of the differences at local levels
2 are due to IRB idiosyncracies and not differences in
3 local populations.

4 I think the advantages of standardized
5 consent forms would be to assure that consent forms
6 are written at an appropriate level, to facilitate
7 translation of those consent forms into the native
8 languages of target patient populations, something
9 that is very important for us in tuberculosis
10 research, and to facilitate changes in consent forms
11 as new information becomes available. That is a
12 formidable process in the current system in which
13 that has to go back through all 25 to 50 local IRBs.

14 (Slide.)

15 I think there should be no local review of
16 offsite individual safety reports for multicenter
17 clinical trials. Local IRBs and investigators
18 should be sent summaries with context, not thousands
19 of anecdotes.

20 Finally, we need better coordination
21 between the different parts of the system. There
22 need to be formal lines of communication between
23 Data Safety Monitoring Boards and a centralized IRB
24 as well as better communications between site
25 monitoring groups and the IRB.

26 What then in such a system would be the
27 role of the local IRB? I think education of

1 investigators and study nurses and all those
2 involved in clinical trials is important and an
3 appropriate function for local IRBs. I think there
4 should be on site observation of the methods used to
5 recruit and enroll patients into clinical trials.

6 I say that because most of the published
7 abuses have been abuses in the consent form process.

8 Finally, I think there needs to be at the
9 local level a much more detailed review of
10 intramural research because it does not have the
11 protections built into multicenter clinical trials.

12 My conclusion is local IRBs are in crisis
13 trapped between the demands for more clinical
14 research and the requirements of federal regulations
15 that were not designed for multicenter clinical
16 trials.

17 The crisis of local IRBs will not be solved
18 through more vigorous enforcement of outmoded
19 regulations. We need a thorough overhaul of the
20 present system, modifying or eliminating those parts
21 that monopolize resources and do not contribute to
22 patient safety.

23 Thank you.

24 DR. SHAPIRO: Thank you very much. Once
25 again, are there any clarifying questions? Yes,
26 Alex?

27 PROFESSOR CAPRON: In your description of

1 the adefovir study you quoted from an NIH research
2 panel the statement, "The receipt of data that are
3 neither aggregated nor interpreted does not provide
4 useful information to the IRB to allow it to make an
5 informed judgment on the appropriate action to be
6 taken, if any." What is the context of that
7 statement? Was that connected to a recommendation?

8 DR. BURMAN: The context was not in the
9 adefovir trial. The context was an NIH special
10 review panel for multicenter clinical trials and the
11 specific comments were directed to -- regarded local
12 IRB review of off-site serious adverse event reports
13 and the recommendation was that that be changed. I
14 can provide the committee that report. I suspect
15 you have it.

16 DR. SHAPIRO: Jim?

17 PROFESSOR CHILDRESS: Just a question of
18 clarification. When you indicated that the Data
19 Safety Monitoring Board notified investigators and
20 patients, were they informed simply that the trial
21 was being recommended to be terminated or what was
22 the information provided?

23 DR. BURMAN: They were provided a letter
24 which gave details of the toxicity, how it would be
25 handled and the details for follow-up to evaluate
26 the duration of the toxicity. So they were provided
27 a lot of details about why the studies were stopped

1 and what actions would be taken.

2 PROFESSOR CHILDRESS: It is one thing to
3 provide the information when a trial is being
4 stopped but I guess I am interested in your
5 reflections since this has been a theme throughout
6 much of the day about what kind of information the
7 Data Safety Monitoring Board could provide to IRBs
8 and investigators along the way because there is a
9 real worry about premature disclosure of trends
10 leading to investigators being unwilling to continue
11 the trial or to participate or to enroll patient
12 subjects. I would be interested in your
13 reflections.

14 DR. BURMAN: I agree with those concerns.
15 I think in designing clinical trials we spend a
16 great deal of effort in designing that portion of
17 the trial and it is all laid out in advance these
18 are the kind of differences that we might expect.
19 This is how those will be evaluated at interim
20 analyses. And I respect that process. I respect
21 those statistics. I think if at an interim analysis
22 those bounds are not breached, the trial should
23 continue, and that interim information should not be
24 released to investigators or patients.

25 I worry a great deal about the risk of
26 prematurely stopping trials that then have a far
27 different conclusion when they are carried to their

1 completion.

2 DR. SHAPIRO: Any other clarifying
3 questions?

4 DR. MURPHY: Can I just follow-up on the
5 DSMB because I am not sure it is appreciated that
6 when they were set up and we in the cancer groups
7 and other large groups instituted them, part of the
8 guidelines is that they are supposed to have
9 confidential conduct to their proceedings. They are
10 not supposed to tell. So it is somewhat of a -- you
11 know, ambivalence. They -- even as a group chair, I
12 do not get any other different kind of letter than
13 what was referred to saying the trial is going okay,
14 keep it up, much less 1,000 IRBs getting interim
15 detailed information.

16 PROFESSOR CHILDRESS: No, and I have served
17 on DSMBs and certainly appreciate that, but again we
18 have heard a theme that there needs to be more
19 communication between DSMBs and IRBs and
20 investigators and my point is only that we cannot
21 have it both ways and that we need to appreciate the
22 kinds of boundaries. I very much agree with the
23 kind of comment that has been made.

24 DR. MURPHY: Maybe just trust rather than
25 more communication.

26 DR. CASSELL: That is difficult in the
27 absence of communication.

1 DR. SHAPIRO: That is trust is difficult.
2 Thank you. Okay.

3 Let's go on. I really want to hear next
4 from Dr. Farley.

5 Welcome.

6 MONICA M. FARLEY, M.D.,
7 PROFESSOR OF MEDICINE,
8 EMORY UNIVERSITY,
9 SCHOOL OF MEDICINE,
10 ATLANTA VA MEDICAL CENTER

11 DR. FARLEY: Thank you.

12 Let me also start by introducing myself and
13 where I am coming from. This will be a little bit
14 of a change of pace from what you have heard in the
15 previous two presentations and I will keep my
16 comments brief.

17 It is interesting, although there are some
18 key differences in the kind of research an
19 epidemiologist does, that some of our conclusions
20 are exactly the same so I find that interesting.

21 But what I do is infectious disease
22 research that is primarily epidemiology. There is -
23 - I am university based. I also have a VA
24 appointment. So I have that other element of a
25 federal appointment. And the research that we do --
26 it is an emerging infections program and it
27 interfaces as a large collaboration between CDC and

1 is funded by CDC as well as state health
2 departments.

3 We perform research in metropolitan
4 Atlanta. There are other sites around the country
5 to have a total population base for the research of
6 about 20 million. Our area specifically that I am
7 involved in is about a 3.7 million, 20 county area
8 of metropolitan Atlanta.

9 The nature of epidemiologic research, there
10 are some important and fundamental differences
11 between this and clinical trials in that this form
12 of research may be more similar to the social
13 sciences in some respects that I know you have heard
14 about in prior presentations but it is primarily
15 observational.

16 It may involve enhanced surveillance for
17 diseases. In our case, infectious diseases. It may
18 involve assessment of knowledge in attitudes and
19 practices with respect to disease. It may involve
20 assessment of exposures that might put one at
21 increased risk for various diseases and again in my
22 case infectious diseases.

23 So that in this case a patient is not
24 subjected to any invasive procedure or given
25 experimental drugs in a clinical trial setting.

26 Confidentiality issues and privacy issues
27 are in my opinion the primary focus of protection of

1 patients involved in this kind of research and that
2 is, of course, very important. The form of consent,
3 I think, also -- it may take a different form in
4 that in some case control studies assessing risk for
5 diseases, we may be contacting patients and controls
6 by phone, and in that case verbal consent is
7 obtained and how best to deal with verbal consent
8 and to fulfill the requirement for confidentiality
9 and such, I think, are issues that are probably in
10 need of further guidance.

11 In many cases it is the power. It is the
12 size that is really what drives successful
13 epidemiologic research and that a large population
14 base is common. It may again involve multi-sites
15 and collaborations between multiple groups,
16 including people who may be in the public health
17 sector, as well as private, university, federal. So
18 it is -- the power of the numbers is really very
19 essential to pulling out relative risks that may be
20 important but small and needing a large population
21 base.

22 So constraints that actually limit access
23 to potential controls for such studies can, in fact,
24 jeopardize the success of a study and pulling the
25 important risk factor that is being pursued.

26 It also may overlap in the case of
27 surveillance activities with legislative activities

1 of public health, and again, program evaluation has
2 been mentioned earlier.

3 It may involve banking of specimens, either
4 human specimens, serologic specimens probably is one
5 of the most common specimens, blood, sera, that
6 might be collected in an epidemiologic study that is
7 collecting any kind of specimen. In our case
8 bacterial or microbial isolates that have been
9 isolated from a patient with a pneumococcal
10 infection, a pneumonia, or food borne disease.
11 These isolates actually have in recent times come
12 into the forefront in terms of the interpretation of
13 an isolate, is that a patient specimen? Is the
14 bacterial isolate a patient specimen?

15 So the issues that we are dealing with are
16 somewhat different. They may in some ways seem less
17 significant and important when it comes to -- or in
18 comparison to clinical trials and patients who are
19 being observed for toxicities to drugs or
20 treatments. But nevertheless it is a
21 perspective, I think, that is important.

22 And I will just go through some of the
23 problems and frustrations that we deal with, many of
24 which overlap, and some might be somewhat unique.

25 The first that has been heard before is
26 that the IRB requirements go beyond a single IRB
27 approval and in our case, as an example, I am at a

1 university, I am at Emory University, I am also at
2 the Atlanta VA hospital, the work is funded by CDC
3 and being done at multiple sites around the country,
4 and I am a collaborator with the Georgia Department
5 of Human Resources, which is our state health
6 department.

7 And in the case of a new case control study
8 that would be coming into our emerging infections
9 program, we would be sending it through four --
10 well, three formal IRBs and then a VA approval
11 process that is separate but not a formal IRB. So
12 it will go through CDC's IRB. It will go through
13 the Emory University IRB. It will go through the
14 Georgia State Health Department IRB.

15 This, as you can imagine, can be somewhat
16 tedious. It also leads to opportunities for
17 disagreement between IRBs and interpretation of: is
18 it exempt, is it not exempt, is it research, is it
19 program evaluation, does it require consent, does it
20 not require consent? So there are many
21 opportunities beyond just the simple minor
22 modifications that occur as probably idiosyncracies
23 of each IRB. So that we have found that our
24 modification to the process has been that we require
25 it to be a sequential process rather than trying to
26 save time and submitting it at the same time to all
27 three IRBs. We have learned that leads to multiple

1 amendments and submissions. Along the way if one
2 IRB changes something, and we actually have to go
3 through the paperwork of resubmitting the entire
4 proposal to Emory's IRB based on a change at CDC.

5 So we do it sequentially and we start with
6 CDC and then we go from there. And I think it is
7 obvious that can be frustrating and it can certainly
8 slow down the ability to get a project up and
9 running. Timeliness in some cases is important in
10 this kind of research and in many cases.

11 There is a new pneumococcal vaccine that is
12 going to be used this winter season for children
13 under the age of two. We want to start a case
14 control study to assess pneumococcal vaccine
15 efficacy of this new vaccine, recently FDA approved.
16 This may be the only winter that we can adequately
17 do this study because the numbers may fall off
18 substantially with this initiation of the use of
19 this vaccine.

20 So we have to struggle to get this through
21 in a timely fashion in order to have it ready and it
22 will be close at this point to try to get it through
23 that many IRBs in the next three, four, five months.

24 The other issue is that with surveillance
25 activities it very much leads to a confusion of that
26 distinction between public health activities, public
27 health surveillance.

1 Salmonella infections are reportable
2 diseases in the State of Georgia. If we are doing
3 salmonella surveillance as part of the emerging
4 infections program, we are taking it from passive
5 surveillance which is the normal system, to active
6 surveillance. So we are enhancing the surveillance
7 system for something that is legislated to be a
8 reportable disease in the State of Georgia. Is that
9 research? And it actually has been deemed
10 research in the case of some of the surveillance
11 projects. So that has led to some frustration of
12 that line -- that difference.

13 Another example would be a survey of
14 physicians to survey their practices when it comes
15 to prevention of particular infections or a survey
16 of a laboratory on methods they use to try to
17 isolate a particular bacteria. Are they using the
18 guidelines that are published? This has been deemed
19 research if it is generalizable. If we are going to
20 use the results of this to make a general statement
21 about the incorporation of these practices in the
22 United States.

23 So you can see that these are quite
24 different although varying from clinical trials, yet
25 fall under and are part of what the local IRBs are
26 weighted down with in terms of reviewing these
27 projects with the same rigor as they would gene

1 therapy intervention for a child.

2 The oversight system in our way of looking
3 at things has been structured to primarily deal with
4 clinical trial work so that we are often frustrated
5 when those -- that system is applied and difficultly
6 to epidemiologic research. When we are asked to do
7 our annual reports we are given a sheet that says
8 please list each patient that was enrolled and their
9 social security number, some identifying factor, and
10 it is really not relevant. We cannot do it that
11 way.

12 When the General Accounting Office came to
13 the VA to review our clinical research with respect
14 to human subjects there were other similar
15 misconceptions about our form of research that the -
16 - how to deal with verbal consent became an issue.
17 They wanted the charts pulled, and this is charts
18 pulled from a population of 3.7 million scattered
19 around 20 counties, to see the consent form in the
20 chart, which is the standard of checking on some
21 clinical trial work.

22 Well, that was not relevant and we had to
23 go through a process of justifying ourselves in our
24 approach to research. So it was -- we find that we
25 are sort of a square peg trying to be fit into a
26 round hole in some cases.

27 And the guidelines, because of that, seem

1 unclear in many cases. Interpretations may vary by
2 institution and sometimes even within the
3 institution or have changed over time. Surveys
4 sometimes have been deemed exempt and more recently
5 seem to be more likely to be deemed research and
6 require consent.

7 Overall and the bottom line, I think, is
8 that the process has become very time consuming.
9 For 17 active projects for my work in particular,
10 those 17 projects end up with 49 separate approvals
11 and that is the initial approval, not to mention the
12 amendments and the annual reapproval of the
13 projects. So there is a lot of time and energy and
14 cost that is involved in maintaining our oversight
15 adequately of the patients in this case.

16 So my potential solutions or my suggestions
17 are in many respects somewhat similar to those that
18 have been described before with a few specific
19 requests that epidemiologic research be looked at
20 and some of the features of it be given some
21 separate attention. First, streamlining and
22 standardizing the process for our type of research,
23 as well a centralized IRB oversight would, in fact,
24 make great sense from our perspective or -- and,
25 therefore, providing authority for a single duly
26 constituted IRB approval to be acceptable to
27 multiple institutions.

1 Establishing -- short of that, if we must
2 have multiple IRB approvals, I think we need some
3 guidelines for dealing with disagreement between IRB
4 committees. Is there a hierarchy of approval? Does
5 CDC's approval or interpretation supersede the
6 local? We have had instances where a survey
7 recently was deemed research by CDC whereas at the
8 state health department, the investigators or the
9 individuals who were going to be performing the
10 survey had deemed it to be program evaluation. And
11 so there was conflict and we will not get funding
12 from CDC for the study unless we meet their IRB's
13 requirements.

14 So how do we deal with that kind of
15 disagreement? There really are very few guidelines
16 for dealing with that.

17 So, in general, the development of clear
18 guidelines and in that process we ask that the rigor
19 of the oversight reflect the degree of risk to the
20 patient.

21 I think we would like very much that the
22 guidelines for noninterventional and primarily
23 observational population studies and surveys to be
24 addressed, whether -- in some cases be deemed
25 nonresearch, but in the case of research be
26 addressed in a way that is relevant to those sorts
27 of studies and not trying to put it into the context

1 of an interventional study dealing with the concept
2 of consent that may take other forms or even whether
3 the consent is necessary for a subsequent chart
4 review on a reportable disease, for instance.

5 We would, in general, caution against
6 casting that net wider to take in things that would
7 normally be interpreted as program evaluation that
8 are essentially putting patients at no risk
9 whatsoever.

10 And then, finally, the idea that this
11 infrastructure has been built up. Many of us are
12 being put into the position of having to fulfill
13 many requirements and it requires a lot of staffing.

14 It requires a lot of administrative time
15 and I think we do not have adequate materials and
16 guidelines to refer to, to -- I have not been able
17 to really learn in ten years of doing this kind of
18 research -- I cannot predict what the next study
19 will require. It is -- each one is kind of a new
20 adventure so that I am never sure what the
21 interpretation will be the next time we come through
22 what seems very much like the previous study.

23 So guidelines, I think, would be helpful.
24 And I think the funding is not always adequate to
25 offset the cost of this enhanced protection of human
26 subjects.

27 Thank you.

1 DR. SHAPIRO: Thank you very much.
2 Are there any clarifying questions for Dr.
3 Farley?

4 Okay. Thank you very much.
5 Dr. Wells?

6 SAMUEL A. WELLS, JR., M.D.
7 DIRECTOR OF CLINICAL TRIALS AND EVIDENCE BASED
8 MEDICINE, AMERICAN COLLEGE OF SURGEONS

9 DR. WELLS: Thank you very much, Dr.
10 Shapiro, and I thank the commission for asking me to
11 testify before this distinguished body. I should
12 say perhaps also in a way of introduction and
13 clarification that I am a surgeon and, like Sharon
14 and the group chair of the Cooperative Clinical
15 Trials Group, the American College of Surgeons
16 Oncology Group -- this is the most recently funded
17 of the cooperative groups by the National Cancer
18 Institute. It is the only surgical clinical trial
19 group funded by the federal government.

20 The question came up a moment ago about the
21 importance of clinical trials in standardizing and
22 improving care, and I might give you some examples
23 of things that we have learned in the early days of
24 this surgical clinical trial group.

25 The first: there are no acute toxicity
26 criteria for surgical trials even though they exist
27 for radiation therapy oncology groups, and radiation

1 therapy in the medical oncology groups, whether the
2 adult or pediatric.

3 To be generous, I would say there is a
4 faulty skills verification process. Many people
5 assume that in clinical trials a surgical procedure,
6 say a gastrectomy, is a gastrectomy is a
7 gastrectomy. There is often marked variation in the
8 failure to standardize these procedures which are
9 critical components of many clinical trials.

10 Also, surgery has perhaps fallen under the
11 radar screen of oversight and surveillance of some
12 of the other trial groups. There is no FDA for
13 surgery or a similar site component. A surgeon can
14 perform a given surgical procedure that he or she
15 declares is new. This often is not monitored
16 carefully. The most recent example of this is
17 laparoscopic cholecystectomy. There has never been
18 a controlled trial comparing this procedure to the
19 standard operation. Still in this country each year
20 there are 4,000 common duct injuries with this new
21 procedure, far more than one sees with the standard
22 therapy.

23 Clinical trials in many ways, the way that
24 we are setting these up, new skill verification and
25 education components, will address many of these
26 inadequacies.

27 Demands that medical science prove the

1 efficacy of accepted interventions and rapidly test
2 nascent strategies for alleviating human suffering
3 has increased the need for well-performed clinical
4 trials. Clinical trials really serve as the front
5 end of a spectrum that includes evidence-based
6 medicine and outcome studies.

7 Ethical treatment of participants is a
8 paramount concern in clinical trials in order to
9 determine that safety that is not compromised and
10 that beneficial treatments are made available as
11 quickly as possible. Clinical trials must be
12 monitored for both adverse events and clinical
13 benefits.

14 Recently there have been calls to include a
15 plan for monitoring clinical trials of all phases
16 and complexities. Despite the layers and collateral
17 methods of oversight, including IRBs, locally, the
18 data and safety monitoring committees, the federal
19 components, OHRP, the FDA, the NIH, and the private
20 sector, there still are potential lapses in
21 assessing patient safety.

22 I will attempt to compare the theoretical
23 and actual performance of each of the entities
24 responsible for trial monitoring and evaluate where
25 lapses might occur and then perhaps offer some
26 suggestions about how each might improve its
27 performance and create a cohesive net to ensure

1 subject safety.

2 First, the clinical site. A fundamental
3 step towards reducing the chance of compromising
4 patient safety through fundamental error is for
5 investigators and their staff to have a systematic
6 approach to the conduct of human investigation and
7 an equally systematic approach to the collection and
8 reporting of data from human studies.

9 A basal level of training in the methods of
10 clinical research should be good clinical practice,
11 which has been defined as a standard for the design,
12 conduct, performance, monitoring, auditing,
13 recording, analyses and reporting of clinical
14 trials.

15 Adherence to good clinical practice
16 principles should ensure that the data and recorded
17 results are credible and accurate and that the
18 rights, integrity and confidentiality of trial
19 subjects are protected.

20 In reality, very few investigators could be
21 accused of deliberately putting patients at undue
22 risk, although the lack of education and formal
23 training of many investigators in clinical research
24 and in the ethics of clinical research limits their
25 ability to recognize potential lapses and the most
26 desirable conduct of human investigation.

27 The regulations give a fairly nonspecific

1 description of the qualifications required of
2 investigators. And I quote from the "Good Clinical
3 Practice Guidelines of 1997," "Investigators should
4 be qualified by education, training and experience
5 to assume responsibility for the proper conduct of
6 the clinical trial."

7 There is no minimum level of training
8 required to meet these qualifications and many such
9 investigators may not even realize that they lack
10 truly important skills and they might not understand
11 the implications and requirements for adverse event
12 reporting.

13 We have multiple interpretations by
14 different government agencies and by different
15 regulatory groups in the medical products industry
16 that sponsor clinical trials. These industry
17 sponsors, eager to avoid liability, require
18 extensive audits of the case record forms of studies
19 versus the medical records of patients producing
20 mountains of audit trails of questionable value to
21 either the integrity of the trial or to its ability
22 to reliably answer the question being asked by the
23 trial.

24 Thus, investigators, instead of
25 interpreting adverse events and putting them in the
26 proper context, protect themselves and their
27 institutions by following the letter of the law.

1 Instead of auditing and monitoring trials, they are
2 merely reporting information in a form that cannot
3 realistically be used efficiently to determine the
4 risk/benefit ratio.

5 A lot has been said about institutional
6 review boards. I realize it is the primary focus of
7 this committee and I will say a few words about
8 this. The Office of the Inspector General has
9 identified several changes that may adversely affect
10 the ability of IRBs to carry out their missio.
11 These include expansion of managed care and
12 reduction in the ability of clinical revenues to
13 support research, increase commercialization of
14 research, proliferation of multi-center clinical
15 trials, research in new fields such as genetics and
16 mental health, and above all, the rise of patient
17 consumerism and its demand for access to clinical
18 trials and to the research data. All the rigorously
19 collected data are not available.

20 Many members of IRBs have reported that
21 they spend much of their time on documentation,
22 compliance issues and cosmetic changes to protocols.
23 This activity may serve in order to protect the
24 institution and patients.

25 IRBs often lack among the personnel, the
26 expertise, to analyze the statistical issues on
27 which many studies rely for determination of when

1 the rate of events represent a true finding and when
2 it simply represents random variation. IRBs often
3 lack the resources needed to handle administrative
4 mandates. Adverse event reports have been
5 identified as one of the major hurdles to an IRB's
6 effectiveness.

7 Several hundred or more adverse events
8 reports are reported to larger IRBs each month.
9 Because adverse event reports are provided with
10 little explanation of their significance and because
11 IRBs do not have available aggregate data on adverse
12 events, knowledge of the full safety profile, the
13 drug or device or surgical procedure, or even
14 knowledge of the number of patients enrolled, it is
15 virtually impossible to make an assessment of the
16 risk relative to potential benefits for a study
17 participant.

18 Finally, IRBs are mandated to monitor
19 clinical trials. They are given no guidance on how
20 to monitor for ethical research practices, nor is
21 there a method for regulatory entities to evaluate
22 how effective IRBs are in assuring patient safety
23 other than checking for paperwork compliance.

24 Data and Safety Monitoring committees are
25 charged by the sponsor and the investigators of a
26 study with protecting the safety of patients by
27 examining the data for indications of harm to

1 subjects, either due to adverse effects of a test
2 agent, surgical procedure, or marked benefit in a
3 study arm.

4 In theory, a Data Safety Monitoring
5 Committee should develop clear procedures and should
6 be given a firm understanding of its role. In
7 reality, some Data and Safety Monitoring Committees
8 may be convened only after a study has started and
9 the role may become dictated by the evolving needs
10 of the study. There is still no consensus on the
11 requirements for membership and member composition
12 of Data and Safety Monitoring Committees. It is
13 most disturbing that there are few individuals with
14 this wealth of expertise required for membership on
15 these committees, resulting in a potential shortage
16 of Data and Safety Monitoring Committee members at a
17 time when this need is increasing significantly.

18 Data Safety Monitoring Boards sometimes
19 included independent study-sponsored investigators.
20 In some cases, representatives of organizations that
21 have funded the study may sit on the Data Safety
22 Monitoring Committee. This represents, of course,
23 clear conflict of interest.

24 Regulators: Although the FDA, the
25 Department of Health and Human Services, OHRP, are
26 the predominate regulatory bodies to ensure research
27 safety, all federal agencies and groups that fund or

1 conduct research with human subject promulgate
2 policies to which their protocols must adhere.

3 In theory, the regulatory body would
4 provide clear instructions and the nomenclature
5 would be agreed upon without producing contradictory
6 guidance to investigators. The guidance would be
7 developed with the working knowledge of the impact
8 on the paperwork burden, cost and impact of doing
9 studies that are necessary to advance human
10 therapeutics.

11 In reality, the instructions are often
12 confusing and contradictory. Furthermore, with
13 respect to adverse event reports, regulatory
14 requirements and definitions are unclear and also
15 occasionally contradictory.

16 International harmonization is still
17 incomplete. Compliance monitoring has occurred more
18 frequently in response to obvious lapses of systems
19 for ensuring patient safety rather than in a
20 proactive fashion.

21 Finally, regulators focus more on
22 compliance, especially with paperwork, than focusing
23 on the impact of patient safety achieved.

24 As far as thoughts about how this might be
25 changed, certainly formal training programs for
26 investigators and clinical coordinators should be
27 developed and implemented. Formal training should

1 be required as a prerequisite for all of those
2 involved in clinical trials. The clinical site
3 should submit plans for auditing and monitoring
4 studies to the local IRB.

5 I would say they should even be included in
6 part of the medical school curriculum. It is not
7 part of post-graduate education for most residents,
8 review committees or American Boards under the
9 umbrella of the American Board of Medical
10 Specialties.

11 IRB members should have formal training in
12 order to recognize the important elements of ethical
13 research. This will increase the likelihood that
14 members focus on assessing critical components of a
15 protocol. The Data Safety Monitoring Committees
16 should monitor all multicenter trials. I feel they
17 should report the results of their deliberations to
18 the institutional review boards, which oversee the
19 activities locally of the clinical trial research.

20 It is important that the FDA, the NIH, the
21 federal government components, continue to clarify
22 the requirements for monitoring patient safety on
23 every study. The various regulatory agencies should
24 convene a meeting of the representatives to rewrite
25 a harmonious set of standards with an eye towards
26 including mandates to take into account the new
27 realities of clinical medicine and the changing role

1 of the capabilities of IRBs.

2 There should be more innovation in the
3 evaluation of the efficacy of safety monitoring.
4 Academic medical centers are in an absolutely key
5 position to influence a national dialogue about
6 monitoring subject safety on clinical trials.

7 The NIH should increase its commitment to
8 the training of clinical researchers through the K-
9 23 and K-24 mechanisms and provide funding for
10 research on ethics and empirical experience with
11 research methods.

12 It is important that support for careers in
13 clinical research receive emphasis. The recently
14 announced K01 grant mechanism to support training of
15 new researchers in clinical ethics is certainly
16 applauded and represents a best effort in this
17 regard.

18 Clinical trials are absolutely key to
19 increasing the standardization and excellence of
20 medicine in all fields in this country and the
21 oversight mechanisms currently in place have faults,
22 are in many cases burdensome, and create onerous
23 tasks for investigators and members of both the IRBs
24 and the Data and Safety Monitoring Committees.
25 Let's hope that this commission will give due
26 diligence to this problem and make recommendations
27 to correct these deficits.

1 Thank you.

2 DISCUSSION WITH COMMISSIONERS

3 DR. SHAPIRO: Thank you very much and once
4 again let me express my gratitude to each of you.
5 Let me begin our discussion with a question. Well,
6 let me just state something and then ask a question.
7 I mean, everyone who has appeared before us both
8 today and on other days dealing with the issue of
9 patient protection and oversight mechanisms and so
10 on has talked about the necessity of increasing
11 support for the IRBs. That is increasing their
12 financial support, increasing the institutional
13 support, in various ways increasing their education
14 and so on. I think at least it seems widely
15 accepted by those who have appeared before us that
16 they just need to do that to just increase their
17 capacity to fulfill their function, including
18 possibly having more IRBs if they are going to be
19 local ones because any single one may just be
20 overwhelmed by approving, as I think you had some
21 data, 23 protocols every three hours or something of
22 that nature in your presentation.

23 But I want to focus my question on the
24 issue which I think most of you brought up, that is
25 there is going to be an increase -- the prediction
26 is increasing number of clinical trials and multi-
27 center trials. And, therefore, inferring from that,

1 I think, most of you or at least three of you said
2 that the logic of that leads you to a centralized
3 IRB because that would be an efficient way, it seems
4 obvious it would be, in some sense it seems obvious
5 that it would be efficient to do that with one IRB
6 instead of 20 IRBs.

7 I understand that argument. It certainly
8 would be efficient. But if I think about it in
9 another way, namely what kind of ongoing discussion,
10 mutual education and so on takes place in each
11 clinical setting, it does not quite feel the same,
12 the efficiency does not seem perhaps quite as
13 attractive as it might because it removes the
14 decision to some distant IRB and does not -- at
15 least I can imagine that that would have some
16 perhaps negative aspects.

17 Now in the case of these consortia which
18 you are the head of one or at least participate in
19 one, that seems to take place amongst researchers
20 before you even get to the IRBs in some sense if I
21 understood the material you presented.

22 Does that worry anybody at all, the fact
23 that if we had a centralized IRB for these multi-
24 center trials that that would sort of decrease the
25 amount of attention and the amount of concern, the
26 amount of conversation that goes on in each
27 individual site regarding their ongoing

1 responsibilities to the participants in these
2 trials?

3 Is that an issue? I am just inventing a
4 nonissue? Or what is going on in that sense?

5 DR. MURPHY: I would not want to accuse you
6 of inventing an issue but I think --

7 DR. SHAPIRO: It is pretty close, right?

8 DR. MURPHY: -- you have to look at, I
9 think, the necessity to try some new approaches
10 because as was pointed out by many previous
11 speakers, I am sure, the guidelines that we are all
12 working under have been promulgated decades ago,
13 thinking one investigator, one institution, you
14 know, one IRB. It is just a different ball game now
15 and there is simply the reality that most IRBs are
16 overwhelmed and I think that centralized IRBs would
17 have several advantages, not merely just efficiency,
18 which is not frankly what should be the driving
19 force.

20 I think that they arguably might be able to
21 protect human subjects better because they would be
22 able to be constituted with individuals with
23 required expertise as well as, you know, persons
24 external to the research who could look at the
25 ethical oversight and could give multi-site trials
26 the kinds of reviews in depth that they frankly do
27 not receive with hundreds and hundreds of local IRBs

1 that are just overwhelmed.

2 I think they could have a better
3 composition and do a better job and one might even
4 think of letting pilots go forward using centralized
5 IRBs with almost differing missions, if you will, or
6 differing oversight. For instance, IRBs overseeing
7 mental health research that has been a subject that
8 you have been talked about before.

9 You could have the right persons composing
10 that IRB and they would do a better job of that kind
11 of ethical oversight it seems to me. You could have
12 cancer IRBs. You could have for some AIDS,
13 epidemiology, you know. I mean, I use those
14 examples. It does not make sense to me to think
15 that every local IRB has all the necessary expertise
16 to review all the research that is coming at it with
17 thousands and thousands of trials in big academic
18 centers. They are overwhelmed. That is just some
19 thoughts.

20 DR. BURMAN: Speaking as someone who works
21 with both the central IRB at the CDC and then with
22 local IRBs, I can say that I think we get better
23 review at the central IRB for precisely those
24 reasons. It is not an IRB that is trying to review
25 an incredible array of trials. They are reviewing a
26 fairly focused array of trials and so we get a
27 detailed, often very incisive commentary back from

1 them, which does result in protocol changes.
2 Whereas, from local IRBs in the last six years we
3 have never had an instance in which we changed a
4 protocol because of a local IRB comment. So, I
5 think I would take the opposing view, which is that
6 I think a well constructed central IRB may well
7 provide better research oversight than multiple
8 overwhelmed local IRBs.

9 And I tried to hint at a couple other
10 advantages of having a single standardized consent
11 form. I will say as a researcher who tries to keep
12 up-to-date translated consent forms in Vietnamese,
13 Spanish, Korean, Ethiopian and other languages, it
14 is virtually impossible to do that in which I have
15 to send all those through two different IRBs, their
16 translators disagree, and so what happens is that I
17 cannot keep an up-to-date translated consent form.
18 Whereas, if I had a single standardized consent form
19 for all sites that could be translated once and then
20 be used at all clinical trials, that is really
21 communicating with patients, that is substance, and
22 a lot of what I see is fluff.

23ot DR. SHAPIRO: I think, you know, those are
24 persuasive comments. However, I do want to point
25 out that it seems to me that everyone who talks
26 about centralized IRBs always refers to the local
27 IRBs as both multiple and overwhelmed. Those things

1 are not necessarily the same thing. That is you
2 could imagine IRBs that were not overwhelmed at the
3 local level but they are -- many of them are. I
4 understand that.

5 Yes?

6 DR. WELLS: I think how the local IRB or
7 the institution would react to the decisions of the
8 centralized IRB would have to be considered. It is
9 interesting that the previous speaker who mentioned
10 not having a consent changed or action by the
11 central IRB. I think we would have some problems
12 with that perhaps if you have say 1,000 sites or 500
13 sites. You might not have every institution agree
14 with the activity or decision at the central IRB and
15 the work could be absolutely onerous at the central
16 IRB. The adverse event reporting, considering what
17 happens in some single institutions, might be a
18 full-time job. It is not necessarily bad and I can
19 see some advantages to it but it would take a great
20 deal of work and effort and integration to pull this
21 off.

22 DR. SHAPIRO: Thank you. Let's see what
23 other questions. Larry, then Alex.

24 DR. MIIKE: I am sorry but I am going to
25 have to ask my question and get my answer and leave.
26 This is for Dr. Farley.

27 You were concerned about expanding the

1 definition of research. We are, too, but the issue
2 is how you deal in the operational sense. If one
3 narrows the definition of research there is the
4 danger that projects that legitimately need human
5 oversight will fall outside, and then if you try to
6 narrow the definition of research, I think we will
7 run across difficulty in saying what is research.

8 The other way is to liberalize the
9 definition of research but also liberalize the
10 exemptions and expedited review process. And it
11 seems that that -- the current way that it is done,
12 there is confusion about what is exempt, what is
13 allowable for an expedited review, but if one can
14 make that a lot more certain so that one can take a
15 look across this and it is a very simple process to
16 do either the expedited review or the exemption, and
17 then really focus on those areas that really need
18 more scrutiny, it seems to me that would be the more
19 rationale way to go.

20 DR. SHAPIRO: Dr. Farley?

21 DR. FARLEY: I think those are excellent
22 comments and I agree fully. I think the idea of it
23 passing through but having an exempt status where
24 there is some measure of evaluation, but brief, and
25 it fits into a defined category of exemption is
26 good. We have dealt with inconsistencies in the
27 application of exemptions and that is a frustration.

1 If we can get it very standardized and things will
2 be easily portioned into the appropriate category, I
3 think that would serve to free up the IRB panelists
4 for the more detailed evaluations.

5 I do have to say as kind of a side comment
6 to the previous discussion as well that I do think
7 local IRBs will continue to need to look in some
8 fashion at these protocols that have had centralized
9 approval. And I do not believe there is -- that
10 that is entirely negative, but I do think that the
11 idea that they can do it in a much more cursory
12 fashion with the confidence that there has been the
13 rigorous and the expertise -- the expert panel has
14 looked at it, that they then can look at if there
15 are particular issues that are unique to their local
16 area, but only quickly look at those issues and not
17 have to go through at least the motions of doing the
18 detailed expert evaluation where they may or may not
19 have the capacity to do that and certainly the time
20 issues are there.

21 So that if there were a way -- I am not
22 saying taking the local IRB completely out of the
23 process, but making it a more realistic approach,
24 and the exemptions, having them fairly well
25 categorized, would be one step of freeing up their
26 time as well.

27 DR. SHAPIRO: Thank you.

1 Alex, and then Arturo.

2 PROFESSOR CAPRON: My major question is for
3 Dr. Murphy. You were offended at the concept of
4 therapeutic misconception and I thought I would like
5 first to get you to tell me what that concept means
6 to you.

7 DR. MURPHY: Well, as I understand it, it
8 is the ethical concept that if the individual who is
9 seeking to conduct the research is the same person,
10 if it is therapeutic treatment oriented research,
11 the same person who is the provider of the
12 treatment, then there conceivably can be a
13 misconception on the part of the subject that they
14 are not necessarily giving consent for research but
15 it is their treatment. It is an indistinct boundary
16 between treating and research for the subject and
17 also probably for the investigator.

18 I think I have the concept right.

19 PROFESSOR CAPRON: Yes. I think that we
20 could refine the details a little bit but I wanted
21 to make sure we were on the same page. Since we
22 heard both from you and I thought even more strongly
23 from Dr. Burman when he said that there are -- have
24 been a lot of treatments that have gone through
25 clinical trials and the -- what the trial did was to
26 protect future patients from that treatment because
27 they turned out not to be efficacious or safe

1 treatments, the notion that something that is in
2 research is of unproven value seems to me to be a
3 different statement about the potential harms that
4 are involved than the fact that a lot of things
5 which are used are used even though they are not
6 perfect, either NQ or avoiding harm and side
7 effects, or they are used because they have been
8 used and they have never been well studied and they
9 are simply part of general practice.

10 And I wonder if with that in mind, in the
11 end is the fact that something is the only
12 alternative for the pediatric oncology patients that
13 the people in your group, your national centers
14 around the country, are providing interventions for?
15 Does that remove the notion that they really are
16 still enrolled in research and it would be different
17 for them if there were a proven therapy for their
18 treatment, even one which had only recently emerged
19 successfully from a clinical trial? Do you not see
20 a difference between those two settings? What we
21 think of as the research setting and the treatment
22 setting?

23 DR. MURPHY: Well, first, I want to make
24 clear that the clinical protocols to which the
25 majority of the children in our group and in our
26 institution are -- they are offered access to and
27 the majority enrolled, they are not the only

1 alternative and not 100 percent of patients are
2 enrolled on study.

3 They can receive the same -- well, perhaps
4 not always the same treatment off-study, but a
5 standard treatment and there are standard
6 treatments.

7 And in the community many people use
8 standard treatments for pediatric cancer so it is
9 not the only alternative.

10 PROFESSOR CAPRON: I was trying to make the
11 case stronger for what I understood to be your
12 position. If it is not the only alternative, I
13 think that only helps to underline the difference
14 between being in a trial and getting an alternative
15 treatment, doesn't it?

16 I mean, otherwise why do we distinguish the
17 two?

18 DR. MURPHY: Well, I ask myself that a lot,
19 too. I think the only distinction is that we
20 carefully analyze the outcomes and that makes it
21 research. The irony to me is some other physician
22 can treat somebody off a study with an unproven
23 nonstandard approach and not have to go through all
24 this informed consent and regulation and they can,
25 you know, have toxicity and deaths occur and it is
26 never even reported. I mean, if you think about it,
27 there should be consent for not being on a trial

1 sometimes, particularly when it is clear there is
2 benefit to the enrollee.

3 I do not want to overstate that, but it is
4 ironic when you think about the distinction between
5 being on a trial and off a trial where in our
6 setting sometimes the only research is that we just
7 collect the data and monitor the outcomes.

8 PROFESSOR CAPRON: Yes.

9 DR. MURPHY: You know, it is -- and we may
10 or may not have a new agent or it may just be a
11 standard agent that is already FDA approved in a
12 different drug schedule or dose or combination, and
13 that makes it research.

14 PROFESSOR CAPRON: I guess what I am trying
15 to get to is it does not seem to me that most people
16 who are looking at this and use the term
17 "therapeutic misconception" do so with any sense
18 that being enrolled in a trial is necessarily more
19 risky nor do they do so with any deprecation of
20 either the value of trials or the intent of
21 investigators, physician/investigators, and I think
22 that if -- and the reason I am exploring this a
23 little is that I suspect that your sense about it is
24 not uncommon in the research community and if those
25 of us who have used the term have created in your
26 minds the sense that you are being attacked by that
27 term, either we have to do more to explain it or we

1 should look for something else because I firmly
2 believe that there -- that it is important for
3 people who are participants in research trials to
4 realize that they are participants in trials. Not
5 because something bad is going to happen to them but
6 just because it is a somewhat different setting than
7 getting, as you put it, the same intervention off-
8 trial. I mean, as a compassionate use or whatever
9 where they are not going to be in the data.

10 And I may, as a member of society and
11 potentially a beneficiary of the results of the
12 trial, be very glad that the trial is going on and
13 think that medicine would generally be better if
14 there were more careful examinations of all
15 interventions. So it is not at all critical of you.
16 It is simply saying that it is a different animal in
17 some respects and people should simply be aware and
18 so it is not a pejorative term in that sense.

19 So I found this very instructive to
20 understand why it seems that way to you and I
21 appreciate your elaborating.

22 DR. MURPHY: I think you do need to work on
23 the language then because it is -- I am offended by
24 it sometimes and in our own institution even or in
25 others there is the implication that, for instance,
26 Phase I and II or early phase clinical research, has
27 no therapeutic intent and nothing could be further

1 from the truth. We always approach a patient with
2 therapeutic intent, usually with a solid rationale
3 for why this is, you know, justifiable and where the
4 risks will be justified in terms of the potential
5 benefit.

6 So I do not like the idea to think that it
7 is a misconception that there is a therapeutic
8 intent. So thank you for that. I appreciate it.

9 DR. SHAPIRO: Okay. I have Arturo, then
10 Eric, and then Steve and Eric.

11 DR. BRITO: I, too, had somewhat related
12 questions for Dr. Murphy, and I want to thank all
13 the panelists before I get to the specific
14 questions.

15 Dr. Murphy, a couple of things struck me
16 about your presentation and I apologize if in your
17 writing there is more detail and I have not had an
18 opportunity to read that, but do you see that
19 pediatric oncology -- that that subspecialty is
20 perhaps one of the reasons, as you state in here,
21 that the clinical trials are the standard of care in
22 pediatric oncology? Do you -- I have my
23 speculations of why that may be so. But I would
24 like to hear from you why you think that might be in
25 that particular thing. For instance, is it because
26 there is more animal models that you could test
27 before? Is it because of things like that and why

1 that might be so?

2 And on the related question to something
3 that Alex was asking, how common is it in pediatric
4 oncology for the clinical investigator to be the
5 same person that recruits -- that is the physician
6 that, therefore, recruits and also is the
7 investigator for that same patient? Do you think
8 that in this field it is more common than in other
9 fields?

10 DR. MURPHY: Well, I like to think the
11 answer as to why the clinical trials are the
12 standard of care is that it is -- I should not --
13 pediatric oncologists are better doctors.

14 (Laughter.)

15 DR. MURPHY: We do have, I think, more of a
16 tradition of clinical trials and cooperative groups
17 in our subspecialty. It has been established over
18 decades so there is a culture which has then,
19 therefore, been passed on in training and because it
20 is primarily an academic discipline it is not
21 practiced out in the community that much. I think
22 it tends to be -- you can get your arms around the
23 problem a little better.

24 I do not really know. It is not the animal
25 model thing. It is just the way we are trained to
26 think. That is the way we train our trainees to
27 think. There is a strong advocacy patient-parent

1 commitment understanding that trials are good
2 standards for care and that it is important to
3 practice evidence-based medicine, which is what
4 trials are all about.

5 I do not know. I think we -- it is all I
6 can comment. It is curious and others have often
7 asked that question but it is probably a lot of
8 things.

9 DR. BRITO: Okay. And the second part to
10 that question or the second question really was how
11 do you feel then pediatric oncology because of that
12 system that the clinical investigator is often the
13 same -- the physician and also the recruiter and
14 eventually the investigator?

15 DR. MURPHY: It happens. It is not 100
16 percent of the time but it is quite frequently.
17 With more multisite large trials, though, there is
18 fewer opportunities for everyone to be the study
19 coordinator so most people are in the role of
20 participant rather than the principal investigator.

21 DR. SHAPIRO: Steve?

22 MR. HOLTZMAN: Well, my comment, it is more
23 a comment than a question is directed to the
24 interchange between Alex and Dr. Murphy, and Alex is
25 not here but what the heck.

26 DR. SHAPIRO: We can manage.

27 MR. HOLTZMAN: I am less likely to get a

1 response if Alex is not here.

2 (Laughter.)

3 MR. HOLTZMAN: That is an inside joke.

4 (Laughter.)

5 MR. HOLTZMAN: It has troubled me -- it has
6 troubled me sitting here for a long time about the
7 therapeutic misconception because as it were, we act
8 as if there is only two kinds of animal. Over here
9 you have got therapy and over here you have got
10 research and this moral obligation to say to someone
11 in research you may not benefit, do not be
12 misconceived that you may not benefit. But, of
13 course, as usual the world lies on a spectrum as
14 opposed to two cases with a range in between. And
15 so if you are dealing with a clinical trial where
16 there is a placebo control and there is
17 randomization, clearly you have to say to someone
18 you may not benefit. That is research that looks
19 like that second kind of animal.

20 But if you are dealing in a world of
21 oncology and clinical oncology and pediatric
22 oncology where off-label use is standard of care,
23 and where research means I am going to look at off-
24 label use systematically now to learn something from
25 it, you are not talking about placebo controls and
26 that is why there is a reaction that says this is
27 not a therapeutic misconception. This is instead

1 rigorously studied therapy.

2 And I think maybe we need to in our report
3 sort of lay out that there is this spectrum.

4 PROFESSOR CHARO: Hands up.

5 DR. SHAPIRO: Alta, yes. We have someone
6 by phone. This is Alta Charo from the University of
7 Wisconsin who has been on the phone.

8 MR. HOLTZMAN: Does that get at the issue?

9 DR. SHAPIRO: Alta, just hold on a second.

10 PROFESSOR CHARO: Okay.

11 DR. SHAPIRO: Eric?

12 DR. CASSELL: I do not want to impugn the
13 motives of the pediatric or any other oncologist
14 either in trials. Obviously the best for those
15 patients is desired but there are two differences
16 between a research setting and the ordinary clinical
17 treatment setting.

18 One of them is the primary responsibility
19 of the researcher, I hope, is to the outcome of the
20 trial because that is where the knowledge comes.
21 And if there is a conflict between a good trial
22 where good knowledge will come and the good of an
23 individual patient, there should be a conflict. If
24 there is no conflict, then somebody is not doing
25 research properly on the one hand. And on the other
26 hand -- I will be glad to clarify that but so will
27 everybody else. On the other hand, there is the

1 other problem about protocol violations. Mostly we
2 do not bump people off ordinary treatment when they
3 violate treatment. We may adapt our treatment to
4 them and so forth and that, I hope, is not true of
5 most of your trials. There are differences between
6 a trial and ordinary treatment.

7 You can be so involved in trials and do
8 nothing else that it does not look like there is,
9 but in point of fact there is (1) the conflict of
10 interest within the individual and (2) the
11 difference between the patient in that and the
12 patient in ordinary treatment.

13 DR. SHAPIRO: Thank you.

14 Bernie?

15 DR. LO: Alta first.

16 DR. SHAPIRO: Oh, Alta, you are next line.
17 I forgot. You are far away. I cannot see you.

18 PROFESSOR CHARO: It is okay. Actually
19 this follows directly on Eric's comment. When I
20 listened to Dr. Murphy's presentation I was struck -
21 -

22 DR. SHAPIRO: Hold on a second, Alta. Can
23 you hear this? Okay. We can hear you. Thank you.

24 PROFESSOR CHARO: Okay. When I listened to
25 Dr. Murphy's presentation in particular I was struck
26 by the absence of the things Eric talked about and
27 also an awareness of the degree to which research

1 requires some lack of individualized attention to
2 patients. One randomizes them among various dose
3 levels, for example, or other details of a treatment
4 regimen and the goal is to keep them on the
5 particular study arm that they have been assigned to
6 until there is strong reason to take them off.
7 Whereas, in an ordinary treatment setting out of the
8 research setting you would manipulate their
9 treatment much more readily. Although I recognize
10 that you might still wind up giving somebody what is
11 equivalent to a best guess, it does lack the kind of
12 individualized attention that is one of the
13 hallmarks of the doctor-patient relationship.

14 I find myself thinking that it justifies a
15 degree of scrutiny.

16 DR. SHAPIRO: What was the last phrase she
17 said?

18 DR. MESLIN: Degree of scrutiny.

19 DR. SHAPIRO: A degree of scrutiny was the
20 last few words.

21 PROFESSOR CHARO: That is correct.

22 DR. SHAPIRO: Is that right, Alta?

23 PROFESSOR CHARO: Yes.

24 DR. MURPHY: I feel that I have to just
25 comment both to Dr. Cassell and to Dr. -- who is the
26 phone speaker?

27 DR. SHAPIRO: Charo.

1 DR. MURPHY: Charo.

2 PROFESSOR CHARO: The mystery woman.

3 DR. MURPHY: The mystery woman voice.

4 About the quality, I think, that we all strive for
5 as both treating physicians and investigators, and
6 that is to maintain ethical equipoise with regard to
7 the individual child subject. Because, Dr.
8 Cassell, you were referring to two different
9 differences between a trial and a treatment. One
10 being that the investigator is related to the -- is
11 more committed to the outcome of the trial. You
12 hope that -- just seeing it conducted correctly.

13 DR. CASSELL: The hope that the
14 investigator is more committed to a correct trial
15 and good knowledge.

16 DR. MURPHY: Right.

17 DR. CASSELL: Investigator is committed to
18 knowledge. That is what the scientific -- more that
19 the investigator is committed to that individual
20 patient's best interests.

21 DR. MURPHY: However, let me clarify that
22 if you are doing a randomized trial --

23 DR. CASSELL: Yes.

24 DR. MURPHY: -- and you have this quality
25 of ethical equipoise which we do have knowing how it
26 is set up and that we -- there is uncertainty in
27 medicine, we do not know which arm is better a

1 p priori. That is why we do the trial, so I have no
2 problem in both offering both arms of a randomized
3 trial and maintaining the role of the treating
4 physician in equipoise.

5 DR. CASSELL: No one has any argument with
6 that. You could not be more correct but that is not
7 what I am saying. Equipoise is not what we are
8 talking about. We hear as a particular there is a
9 classic 20th patient instance in which 19 patients
10 have failed the trial, but until 20 patients are
11 enrolled it will not be statistical, this and that.

12 Mostly you -- that 20th patient should be
13 enrolled and mostly to get that patient enrolled we
14 do not tell the patient "19 patients have failed
15 this trial, you are the 20th patient." We want the
16 patient to be enrolled. Otherwise the trial is not
17 going to be a trial. It is a classic -- it is used
18 again and again as an example.

19 The important thing is that if you do not
20 finish that trial, then all the 19 patients before
21 were used to no purpose. And there is a dedication
22 -- not equipoise. Equipoise is not the issue. It
23 is where is your primary responsibility to the
24 knowledge produced by the trial, which involves a
25 number of people, and to an individual patient. And
26 that is a conflict of interest that we did not
27 invent today, I promise you. And that is very,

1 very seldom understood by oncologists particularly.

2 DR. MURPHY: Thank you for that lecture.

3 DR. CASSELL: No, no, do not worry about
4 lectures. They do not hurt you. On the other hand
5 there is this: Why oncologists particularly?
6 Because you do have the expertise and most of the
7 patients are enrolled and so it is not like somebody
8 treating heart failure where lots of people treat
9 heart failure. You are the ones who know more.
10 That is why it is particularly important for
11 oncologists to know.

12 DR. SHAPIRO: Bernie?

13 DR. LO: I want to shift gears a bit and
14 ask Dr. Farley a question. You explained to us how
15 you do epidemiologic research and particularly a
16 sort of research on enhanced surveillance on
17 conditions that are often reportable by state law in
18 the first place.

19 I want to ask you to expand or to say a
20 little more about the expertise that some of the
21 IRBs you deal with bring to the review of
22 epidemiologic research, as opposed to clinical
23 trials, or other types of research that are probably
24 more common.

25 You talked a lot about the kind of delays
26 you face in kind of getting multiple IRB approvals
27 for studies that need to be done in a very timely

1 fashion because of disease epidemiology, but could
2 you say a little bit about whether you feel that
3 IRBs that you go before really understand the kind
4 of work you do? Are they applying concepts that
5 really are meant to apply or fit best for other
6 types of research? Do they understand the kinds of
7 subtleties or not so subtleties about how consent
8 may take on a very different meaning in the
9 situation where the disease is reportable?

10 Just to put it in context, we have
11 struggled here with the notion that both the
12 regulations and sort of IRB experience often is
13 geared to a certain type of biomedical research and
14 other types of studies that do not fit that sort of
15 template and may not get appropriate attention.

16 DR. FARLEY: Well, that is my feeling on
17 the subject and I have to say having dealt with the
18 three different IRBs fairly routinely that the
19 university based IRB is the one that was least
20 prepared to deal with our proposals when we first
21 started doing this research and I think there has
22 been kind of an -- in some ways an education process
23 that they have learned through the years more about
24 what we do because we have a fair number. The
25 volume has continued and increased over the years
26 but very much the initial stages of the evaluation
27 have been trying to make it like a clinical trial at

1 the university level because that is what they are
2 seeing most routinely coming through.

3 CDC's IRB has become more and more active,
4 as all IRBs. They are all kind of revving up to a
5 higher level of attentiveness as this is being
6 viewed very carefully and closely and the CDC's IRB
7 is probably the most expert one of the three we are
8 sending it through.

9 I do have to say that the state health
10 department's IRB brings a third perspective and I am
11 not arguing for the need for this thorough review at
12 three different places, but there are perspectives
13 that are brought from the public health sector in
14 the field versus centrally at CDC that sometimes
15 come to bear on the issues of the evaluation, but my
16 impression has been that the university has been the
17 least prepared to deal with the epidemiologic
18 research.

19 DR. LO: If I could follow up. Could you
20 please give us an example of how the state
21 department and CDC provides an insight that either
22 the CDC -- I am sorry, the IRB from the state public
23 health department brings insight that the CDC board
24 or the university board may have missed and enhanced
25 the sort of protection of subjects or strengthened
26 the protocol in some way?

27 DR. FARLEY: Well, whether it protected the

1 subjects anymore could be argued, but an example
2 would be that the CDC -- for instance, a protocol
3 that had to do with reviewing cases of an
4 opportunistic infection that was fairly closely
5 linked to patients with HIV disease. The case
6 report form included the -- a list of underlying
7 diseases that may predispose to the particular
8 invasive infection and it included a check-off for
9 HIV.

10 In the State of Georgia reporting -- and so
11 we were using this form that would be distributed to
12 labs throughout the surveillance area in the State
13 of Georgia, only AIDS is reportable by name, HIV
14 infection is reportable but not by name. And -- but
15 in other states HIV may be reportable by name.

16 And so they were looking at the -- if this
17 form was coming out looking like a request from the
18 state health department to check off on this case
19 report form that the patient was HIV infected, that
20 it was not in compliance with the state regulations
21 in terms of -- we had to change the wording to
22 indicate that this was an optional process and that
23 only AIDS was reportable by name.

24 So was that patient more protected? I
25 could argue that no. I mean, we were going to
26 protect the confidentiality. No identifiers were
27 going to accompany this data ultimately to CDC.

1 None would go out in publication.

2 To me there were regulatory issues being
3 addressed there, but was the human subject more
4 protected? I am just not sure.

5 DR. SHAPIRO: Thank you. Do you have
6 another question, Bernie?

7 DR. LO: Can I just follow up because the
8 reason I want to pursue this -- I mean, we hear or
9 at least I hear very broad statements all the time
10 about sort of the value of local IRBs or things like
11 that and I am always trying to sort of get specific
12 examples that go beyond the level of "we are more in
13 tune with local values and, therefore, we do a
14 better job."

15 But if I could push a minute on -- or find
16 out more about this particular incident, one other
17 interpretation without my knowing, you know, all the
18 facts to the case is that confidentiality of HIV
19 status is a large concern and was there the
20 possibility of designing the study so that even when
21 you got the primary data from the initial
22 surveillance report it was presented to you in a
23 coded fashion so that you could have gotten the HIV
24 information, but using an identifier that was so
25 scrambled that it would be very hard to back track
26 and identify the individual?

27 DR. FARLEY: Well, actually in this case it

1 had actually been approved by -- the acquisition of
2 those data had been approved by the Emory IRB, our
3 university based IRB, but it was called into
4 question by the state. And, in fact, what we did
5 was to develop a process that would strip that
6 identifier or that data point from the information
7 that was passed on then to the state health
8 department so that they never were in receipt of
9 that information by patient and so, yes, we did
10 incorporate that but it still meant that we as the
11 university based investigators are still, in fact,
12 collecting that information and we are protecting
13 the confidentiality and none of the names are -- all
14 of the personal identifiers are stripped from the
15 dataset before it goes to CDC, but in this case we
16 added an extra layer of stripping between the
17 university and the health department.

18 DR. SHAPIRO: Thank you. Maybe we will
19 take one more question because I think we have to
20 wind up. Steve, do you have a question?

21 MR. HOLTZMAN: It is a question of Dr.
22 Cassell. I will do it afterwards.

23 DR. SHAPIRO: I see. Well, all right then.
24 Let me then thank our panelists very much for your
25 very thoughtful remarks and, indeed, very
26 stimulating remarks. We really very much appreciate
27 once again that you have taken your time to be here.

1 Thank you all very much.

2 Unless there is some reason not to, we are
3 going to adjourn. We are adjourned.

4 (Whereupon, at 3:32 p.m., the proceedings
5 were adjourned.)

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