

RANCH HAND ADVISORY COMMITTEE MEETING

Department of Health and Human Services

October 19-20, 2000

Day Two

Conference Center

Hilton Palacio del Rio

San Antonio, Texas

ATTENDANCE

Committee:

Robert W. Harrison, M.D., University of Rochester,

Chairman

Michael A. Stoto, Ph.D., George Washington University

Michael Gough, M.D.

Robert C. Stills, Ph.D., NIEHS

Paul R. Camacho, Ph.D., University of Massachusetts-
Boston

Steve Selvin, Ph.D., University of California-Berkeley

Staff:

Ronald F. Coene, P.E., Deputy Director, NCTR,

Exec Sec of the Committee

Barbara Jewell, NCTR, **staff**

Air Force:

COL Harry E. Marden, M.D., Brooks Air Force Base

LTC Karen A. Fox, M.D., Brooks Air Force Base

LTC Bruce Burnham, Chief of Population Research

Dr. Joel Michalek, Principal Investigator

Attendees:

Dr. Judson Miner, Program Management Support

Manuel A. Blanca, Program Management Support

Meghan Yeager, SAIC

William Grubbs, SAIC

MAJ Jack Spey (Ret.) Ranch Hands Vietnam Association

C O N T E N T S

Review Statement of Work (Continued)	434
Future meeting dates	547
Public Comment	568
Adjourn	571

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

2 [8:12 a.m.]

3 DR. HARRISON: Good morning.

4 [Slide]

5 DR. MICHALEK: This is actually the --

6 MR. COENE: Oh, you've got a one-pager,

7 Joel, that you've laid in front of us, is that correct,

8 that we probably have lost in our papers?

9 DR. HARRISON: Starts off with review at
10 work.

11 DR. MICHALEK: What we have here is the
12 Statement of Work. The Statement of Work is a document
13 that is written by the government that tells SAIC what
14 to do. It says, the contractor shall do this, the
15 contractor shall do that. It is the document which is
16 the basis for the entire physical exam, the travel, the
17 lodging, the tracking, the clinical activities, the
18 reporting, the statistical analysis, the whole nine
19 yards. The date of release.

20 It is a document that both parties sign up
21 to; it is a contract between the government and this
22 company, SAIC. And what you have there in that loose-

1 leaf is --

2 DR. STOTO: Or maybe another company.

3 DR. MICHALEK: Yes. What you have in the
4 loose-leaf is the contract from the last physical, 1997
5 physical. It is that contract that we will modify
6 slightly for the new one, and so it provides a
7 framework for discussion.

8 So what's in that contract in very cursory
9 description is this: Now at this point, we've kind of
10 reached the limit of what I can do with Powerpoint.

11 We are talking about kind of a hefty
12 document there; we're talking about a couple of hundred
13 different measure of how, we're talking about 67 or 58
14 different laboratory measurements; I'm not going to
15 list those in Powerpoint.

16 What you need to do is look at it. The most
17 document for you will probably be the Examiner's
18 Handbook, which is at the very end. The Examiner's
19 Handbook is what's given to the staff at Scripps. Just
20 thumb through the Statement of Work -- eventually
21 you'll come to something called an addendum.

22 DR. MINER: It's about page 61, or so.

1 DR. MICHALEK: It's called Addendum A. Air
2 Force Health Study Examiner's Handbook. That was the
3 document that, the details of what was done at the last
4 physical in narrative form, stripped of all the
5 contracting lingo.

6 It says very directly -- for example, on
7 page 62, paragraph 2: The general physical exam shall
8 conclude an assessment of -- and then it lists all
9 these things. And then it goes on: The dermatology
10 exam shall include these things -- so on.

11 This is the document that will probably be
12 the one you will want to focus on, because this has the
13 bulk of the scientific content of our activities at the
14 next round.

15 All the special testing is on page 64;
16 pulmonary testing, APG, do an exam for occult blood.
17 It's all here.

18 At the bottom of page 64, Item 13 -- we're
19 not going to do that next time. That's the adipose
20 tissue sampling we did last cycle that we're not going
21 to do next cycle; extracting 12 grams of fat from the
22 abdomen.

1 So I have just given you a brief outline of
2 what's in the Statement of Work, and I have outlined
3 those portions of it that you want to focus on from a
4 scientific point of view, which are all of course
5 summarized in the Examiner's Handbook, but they're also
6 given the contractual language throughout the statement
7 of work.

8 The specifications for the last part of the
9 testing is there, along with all the details on quality
10 control, and which quality control charts they're going
11 to use, what coefficients of variation they have to
12 have, how the lab has to be kept certified, how the
13 staff has to be maintained stable, how samples have to
14 be kept and a certain number of wats, and all the
15 detail are there about the nuts and bolts of conducting
16 a big study at a research level of quality.

17 It's not just like the family clinic; this
18 is -- we think -- top of the line activity.

19 So that's the document. And let's just look
20 at the rest for a minute.

21 So the idea is that we will look at the
22 document

1 in December; and the idea is to think about what we
2 should do or not do at the next physical exam.

3 Now on those lines, we need to need these
4 things. First of all, it's not a good idea to sign up
5 to a contract and then later on change our minds about
6 something. That will incur a large amount of cost, and
7 will disrupt the process.

8 Our goal here is to make decisions up front
9 and then follow through -- I hope delay, without any
10 changes throughout the whole activity. And that's like,
11 called contracting limitations. Because any change to
12 the contract will incur extra cost, and that will
13 disrupt our process. We only have a fixed amount of
14 money, and we don't want to have to do that.

15 Then there's the protocol. We just can't
16 decide "Well, we're not going to do neuro anymore."
17 It's in the protocol that we're going to do neuro. We
18 have a lot of other reasons to want to do neuro, but --
19 in other words, there's a framework here of activities
20 that are specified by the protocol. There's a
21 structure to this that goes back to 1980, which is in
22 the protocol; and that's what that's about.

1 There are logistical constraints, too. You
2 might say "Well, we're going to add a new test." It
3 might happen that -- the caffeine breath test, for
4 example, might take four hours. We don't have four
5 hours. We're going to do so many other procedures and
6 these men are going to see so many doctors and do so
7 many blood draws that there isn't enough time to
8 introduce a four hour test while they're at the clinic;
9 it's infeasible.

10 So you have to worry about that, too; we
11 call it logistical constraints. For example, a certain
12 test might require that they be fasting for a full day
13 or something beforehand. Well, that could be a
14 logistical problem if you have elderly individuals that
15 -- the ranges of ages here are --.

16 COL. MARDEN: One of the other logistical
17 constraints is that when the guys come in they come in
18 on a flight that the contractor is scheduled, and
19 they're scheduled to depart on a fixed flight; it isn't
20 an open ticket. So any kind of deviation from the
21 schedule creates massive headaches for the contractor
22 in trying to either reschedule a flight or get a

1 procedure done within the time constraints of the
2 flight that the guy has scheduled.

3 And there's our so-called technical
4 legacies.

5 DR. HARRISON: Now wait a minute now.

6 So how much slack is there in the schedule?

7 DR. MICHALEK: There's not a lot.

8 DR. HARRISON: Instead of saying there's
9 logistical constraints --

10 DR. MICHALEK: Well --

11 DR. MINER: Last cycle --

12 DR. HARRISON: In order for us to consider
13 this, I need to know. Are you saying that anything
14 that takes more than 15 minutes should not be
15 considered?

16 DR. MICHALEK: No, no, I'm not saying that.

17 DR. MINER: Last year or last cycle--

18 DR. HARRISON: In order for us to consider
19 this, I need to -- say that anything that takes more
20 than 15 minutes should not be considered.

21 DR. MICHALEK: Wait a minute, now.

22 DR. MICHALEK: Go ahead.

1 DR. HARRISON: So how much slack is there in
2 the schedule?

3 DR. MICHALEK: There's not a lot.

4 DR. MINER: Last cycle, based on looking at
5 what happened in the previous cycle, we went from a 2-
6 1/2 day exam to a 2-day exam. We decided that was not
7 a good thing to do, and we're going back to a 2-1/2 day
8 exam. So there is a little more time this time.

9 DR. HARRISON: So compared to the last time,
10 you've got four hours.

11 DR. MINER: We do have four?

12 DR. MICHALEK: Four hours.

13 DR. MINER: We might have four hours, right,
14 but not four hours twice.

15 DR. HARRISON: Understood.

16 DR. STOTO: Well, conceivably, if there was
17 really important, and it would take an extra day, it
18 could be changed.

19 DR. MICHALEK: Right.

20 DR. MINER: If we take an extra day, though,
21 then that adds another --

22 DR. MICHALEK: Another night at the hotel.

1 DR. STOTO: Right, that's what I was going
2 to ask. Is there a total constraint on the cost per --

3 COL. MARDEN: It's a relative constraint.

4 DR. MINER: We have a cost estimate already
5 outlined for this cycle. I can't tell you what that is
6 because I've got contractors in the room.

7 DR. STOTO: I understand.

8 MR. COENE: Is it based on 2-1/2 days, is it
9 based on 2-1/2 days?

10 DR. STOTO: Yes.

11 LTC BURNHAM: So adding a day makes
12 significant --

13 DR. HARRISON: What you're saying is, you've
14 got your money allocated into different slots and
15 you're going to try to -- and you -- it's easy for you
16 to shuffle stuff within those slots, but to change from
17 one slot to the next is at least an accounting problem,
18 if nothing else.

19 LTC BURNHAM: Or to go back and get more
20 money --

21 DR. HARRISON: Well, that doesn't sound too
22 practical.

1 In terms of -- I mean, what you're saying,
2 though, is that you don't want to change the protocol;
3 that makes sense. The logistical constraint, though,
4 instead of just that being a category, when I look at
5 this Statement of Work and the other proposals, there
6 actually is a fair amount of slack in the system.

7 DR. MICHALEK: There is slack in the system.

8 DR. HARRISON: It's not real tight.

9 DR. MICHALEK: There's some slack, yes; and
10 it's hard for me to tell you what that is, exactly.

11 Another example would be, you wouldn't want
12 to do a debilitating test on the day they have to
13 leave, because you have to get this guy to airport, and
14 we don't want to have him stumbling out the door all
15 weakened from a big procedure.

16 COL. MARDEN: Or on our 92 year old subject.

17 DR. MICHALEK: Yes. By the way, the
18 earliest birth year in this study is 1910, and the
19 latest birth year is 1956. So there's quite a range in
20 ages in this group.

21 The oldest individual that showed up last
22 time was in his 80s.

1 Technical legacies. We certainly would like
2 to be able to compare one report with another. We like
3 to be able to do longitudinalities; we like to see
4 repeated measures over time. So it's disruptive to say
5 "Okay, we're not going to measure this variable
6 anymore. Because then we lose, we don't have a track
7 anymore."

8 There are a lot of things we do because
9 we're interested in time trends. So that's what that
10 is. And we don't like to change our definition of cases
11 very often. I know there's new information on
12 diabetes, and we'll take that into account; the new ADA
13 definitions.

14 But if we make a change to the case
15 definition, such as heart disease for example, because
16 we want to create a continuity of cross-reports over
17 time, we'll do the old definition and then we'll do the
18 new definition, both. So you'll have an overlap -- a
19 continuity across reports.

20 And similarly with statistical analysis,
21 which I'll give in more detail in a minute. We have
22 over the years changed our models or added to our

1 statistical modeling; but every time we do that, we
2 always try to include the previously-used model so we
3 track across time, the same way.

4 And finally, once again, you'd want to be
5 able to take the year 2002 report and open it up and
6 say "What happened last time?" So you open up the last
7 report, and you don't want to have a big change in
8 format, because that just makes it harder to
9 communicate to yourself and to others what happened,
10 you know, with this group.

11 So the longitudinal aspect is important, and
12 that's why we're doing a longitudinal study. So report
13 format is -- there are things that we can do with
14 report format that won't disrupt our ability to do
15 longitudinal comparisons; but we have to be careful
16 there, too.

17 DR. STOTO: One thing that helped me with
18 struggling witness this issue a year ago was to realize
19 that in addition to these reports that come out based
20 on each major exam, you also do papers in the
21 literature, where you have more freedom to change
22 methods and do something that may be more modern or

1 appropriate and so on.

2 DR. MICHALEK: That's an excellent point.

3 Go ahead.

4 DR. HARRISON: But the actual data from the
5 first exam to the present is -- the actual data itself,
6 what you got out of the Scripps study, is in electronic
7 format?

8 DR. MICHALEK: Yes, and it's on the web
9 page.

10 DR. HARRISON: Okay, but it's -- it's in
11 that RAID array somewhere.

12 DR. MICHALEK: Right. That's it. It's all
13 saved and it's all on line.

14 DR. MINER: Well, not quite all.

15 DR. MICHALEK: All the electronic data that
16 we used in our reports is available.

17 DR. HARRISON: Now that's not my question.
18 Every CBC, every differential, every urinalysis report,
19 is in an electronic format.

20 DR. MICHALEK: Yes.

21 DR. HARRISON: It may not be accessible to
22 me through the web page, but it's there.

1 DR. MINER: Yes. Yes.

2 DR. MICHALEK: I'd like to amplify Mike
3 Stoto for a second. Mike made a very good point.

4 We have a what's called a fixed price
5 contract with SAIC to do these reports, these
6 statistical analyses. They are not free to do
7 exploration. If they were, the cost would go the roof.

8 They have a plan, they have a drill: "You
9 will apply this Model 1 to this variable using those
10 exclusions and these covariates, and this main effects
11 model, and you will report such-and-such." That's a
12 drill; that's the only way we can get this done.

13 So when we see things in the report later on
14 that we find interesting, the way we explore those --
15 me and Billy Jackson, who isn't here today, and our in-
16 house staff; or sometimes we can go back to Bill
17 Grubbs, but we have to be real careful there about the
18 constraints of the contract.

19 And it was done that way on purpose, by the
20 way, way back at the beginning. That we would avoid
21 what are called post hac fishing expedition-types of
22 analyses. "Well, that's interesting, let's follow that

1 PI. And go on that one. Wow, that was neat." Goes on
2 and on.

3 We don't want to get into that game, you
4 see. So there's a drill, there's a very important
5 drill here, and it's captured in something called a
6 Statistical Analysis Plan that the company writes for
7 us as part of the requirements of the contract.

8 And all of the exploration and all of the
9 research and detail and long periods of work are done
10 by us in-house to write those research papers.

11 DR. CAMACHO: These guys go through a drill.
12 They put thought out there.

13 DR. MICHALEK: They're going to write a
14 4,000 page report.

15 DR. CAMACHO: Then if you want to follow
16 some path that's your business and you aren't here to
17 die; you're on the Air Force dime.

18 DR. MICHALEK: That's it. Right.

19 They have to produce a 4,000 report by a
20 certain date. And it has to be a firm date; got to be
21 January of the year 2004, and it's got to be sent to
22 the Surgeon General, and there's no question about it.

1 So with that time constraint, and the
2 constraints that I've just listed, this is the
3 situation we're in with those big, fat reports.

4 DR. STOTO: And the stuff that these guys do
5 are the things that go in the peer review literature,
6 that Joel's group does, that we heard about yesterday.

7 DR. MICHALEK: Now the report is peer
8 reviewed, too, and I want to get to that. But first of
9 all, here's what happens at Scripps; this is all shown
10 in the Examiner's Handbook.

11 DR. MINER: Joel, could I interrupt just for
12 a second? On the report format specifically, since we
13 were talking about that. If you look in your Statement
14 of Work, you'll see some blocks in there, but those are
15 the contract data requirements list items. And that
16 then refers back to a data item description which is
17 part of the contract, which then sets the format, and
18 how many copies and how gets it and so on and so forth;
19 that's what they have to follow in their activities.

20 So as you go through here, you might see
21 something that refers to the statistical analysis plan
22 or to the science -- reports final. But that's a set,

1 contractual, legal piece and definition that they have
2 to do.

3 DR. MICHALEK: You'll see a block that says
4 CDRL. That stands for Contract Data Requirements List.
5 We didn't give you all those; those are a set of forms
6 there, attached to the back of the contract, for every
7 deliverable, which is contract language for a product
8 that they hand over to the government.

9 There's a form in the back that says who
10 they're going to give it to, exactly when and how many
11 copies, and who's going to approve it and all that. We
12 didn't give you all that stuff, we just gave you the
13 contract itself.

14 MR. COENE: A clarification, Joel: in
15 reviewing Round 5, didn't the group question some of
16 the statistical plan, or at least -- so that they
17 questioned what was contracted for. It says one of the
18 early deliverables is a statistical plan again?

19 DR. MICHALEK: Correct.

20 MR. COENE: So it seems to somehow, if the
21 committee had trouble with that last time, they would
22 like to see that before --

1 DR. MICHALEK: Okay. We can give you a copy
2 of last cycle's statistical analysis plan. Deliver
3 that to you.

4 DR. MINER: But the Statistical Analysis
5 Plan, if you look at your --

6 DR. MICHALEK: It reflects what's in the
7 contract.

8 DR. MINER: -- table 3 6. Table of Contents
9 3.6, where it says: statistically analyze the data,
10 and then go to that part in your Statement of Work, it
11 describes exactly what has to be in the statistical
12 analysis plan.

13 DR. HARRISON: Yes, but what we're saying
14 is, we want to see the plan.

15 DR. MINER: The plan reflects what this says
16 to do.

17 COL. MARDEN: Which is the chicken and which
18 is the egg.

19 DR. MINER: And so we --

20 DR. STOTO: This is it. Starting on page --
21 bottom half of page 19, through 22 or so.

22 MR. COENE: The issue of nonsignificance.

1 Yes, okay.

2 DR. STOTO: But we didn't even discuss it.

3 But this is -- what's there to discuss.

4 DR. HARRISON: If Stoto and Camacho, the
5 big-time statisticians in the group, think that this is
6 enough to work with, that's --.

7 DR. MINER: Well, again, what their -- their
8 plan should reflect what we asked them to put into it.
9 So if you want to change what goes into that plan,
10 change this first; and then you can review it to make
11 sure that the plan reflects that.

12 DR. HARRISON: But remember, the devil is in
13 the details, and the next meeting is in the first part
14 of December.

15 DR. MINER: Absolutely.

16 DR. MICHALEK: And the details are right
17 there.

18 DR. MINER: No, I wasn't saying don't review
19 the stat plan, I'm saying start with this first and
20 then --.

21 DR. STOTO: The other thing that would be
22 helpful to me is to see the results that came out of it

1 last time.

2 DR. MICHALEK: All right.

3 DR. STOTO: And there was a chapter on
4 statistical methods, I recall; and then maybe one
5 chapter, say the one dealing with diabetes as a sample;
6 and then there was a summary chapter.

7 DR. MINER: Was that in the plan?

8 DR. HARRISON: What you're saying -- Wait a
9 minute, though. What you're saying, to get me right,
10 Ron, is that Mike thinks that certainly he would like
11 to see and probably the other people in this area would
12 like to see -- they already have this, they want the
13 Statistical Plan, they want the statistical chapter
14 from the last cycle, and a representative chapter from
15 the last cycle, and it should be the same
16 representative chapter for all three of you to review
17 so that you are all talking about the same thing.

18 LTC BURNHAM: You can get that off the web
19 site.

20 DR. STOTO: Well, I know.

21 LTC BURNHAM: I'm saying, I'm telling Ron,
22 you can download that by chapter.

1 DR. HARRISON: That's Ron's --

2 MR. COENE: We agree what would be a good --

3 knowing their requirement now, what would be a good

4 package for them.

5 DR. HARRISON: Yes. You all can work that

6 out.

7 MR. COENE: A meaningful package that would

8 allow them to compensate --

9 DR. STOTO: I would add, the summary

10 chapter, too.

11 LTC BURNHAM: You have it on CD.

12 You said They.

13 DR. STOTO: I have access to the web, too.

14 MR. COENE: If we could make it easier by

15 pulling opponents, us subset.

16 DR. HARRISON: I haven't seen a CD --

17 DR. MICHALEK: And we gave you the last

18 report, the whole 4,000 pages on CD.

19 MR. COENE: Let's with your help pull

20 together this subset that will allow them to focus on

21 this issue.

22 DR. MINER: They want to focus the CD.

1 DR. MICHALEK: I would like to amplify
2 something that Jay said. First, it is true that the
3 Statistical Analysis Plan reflects what's in the
4 contract, but not exactly. There are times when Grubbs
5 would discover something that we wrote in the contract
6 "Did you really mean it this way?" And I'll look at it
7 and say "Oh, darn, missed that point."

8 So Bill would come back and tell us, "Oh,
9 you really want this, don't you?" And I'd say "Yes,
10 you're right, Bill." So that plan would be sometimes a
11 tiny bit different than what's in the contract, because
12 we can negotiate certain cut points. I'd say in there
13 we're going to use a cut point of 3.5; "Darn, it was
14 the wrong cut point" and Bill would know that, because
15 he knows the details from Scripps.

16 DR. MINER: Nope, nope, nope.

17 (Laughter)

18

19 DR. MICHALEK: It's not exactly the same as
20 the contract.

21 DR. MINER: It has to be.

22 DR. MICHALEK: Then we amend the contract.

1 DR. MINER: Yes.

2 (Laughter)

3 DR. HARRISON: So recorded.

4 DR. MICHALEK: There's a slight evolution
5 here.

6 DR. HARRISON: Joel, don't get tied up in
7 that, because that's something that we would all
8 understand. That's not a problem.

9 DR. MICHALEK: All right.

10 DR. MINER: It matches. We mod the
11 contract.

12 DR. MICHALEK: One option is to put the stat
13 plan on the web page; you know, just get it by point
14 and click. It's about a hundred pages; not a big
15 document.

16 Part of the other activity besides getting
17 the men out to California, physically examining them
18 and sending them home and analyzing and writing their
19 report, the SAIC will deliver data for public release,
20 just like they're doing now for all the other cycles --
21 and by the way, cycle is jargon to me; the physical
22 exams.

1 Cycle 5 is the 8/97 exam, Cycle 4 is the '92
2 exam and so on. Cycle 6 is the one we're talking about
3 in the year 2002. They're going to produce SAS files
4 and flat files of the data for the public. These are
5 datasets that are identical to those used in the
6 report, but have the case number replaced by a fake ID
7 number so that no one could get that data and somehow
8 get into our system and merge it with something. You
9 can't because it's a private -- it's been fixed so they
10 can't do that.

11 Otherwise they're the same datasets that are
12 used in their analysis.

13 DR. HARRISON: So where's the relationship
14 between the fake numbers and --

15 DR. MICHALEK: The key is held by only one
16 person; her name is Lydia and she's on our staff.

17 DR. HARRISON: So it's not in the same
18 computer?

19 DR. MICHALEK: It's in a special place that
20 only one person can get to.

21 DR. HARRISON: Okay.

22 DR. MICHALEK: And they're going to release

1 these flat files and SAS files, they're going to
2 produce documentation so that everyone knows what's in
3 the file. In SAS that's captured in the contents; that
4 means labeling and first flat files, the documentation
5 is --

6 They're on our web page, and they're going
7 to produce that again for the next cycle.

8 DR. HARRISON: Joel, you do have Lydia
9 backed up.

10 DR. MICHALEK: No one is backed up. If
11 Lydia is killed or hurt at some point, we have her in a
12 position with this study where all of us are one deep.
13 In that if I disappear, there's no one with -- maybe
14 Jay Miner who may be the closest person that would have
15 my level of expertise.

16 DR. HARRISON: I was given a cup of coffee,
17 and so I might not have followed this as closely as I
18 should.

19 The SAS files and flat files that are
20 delivered that you have somewhere are actually coded so
21 that each individual can be identified.

22 DR. MICHALEK: Yes, yes. Only the public

1 data.

2 DR. HARRISON: And those are kept in that
3 RAID array somewhere?

4 DR. MICHALEK: Right.

5 DR. HARRISON: And are backed up somewhere.

6 DR. MICHALEK: Right. Everything's backed
7 up every day.

8 DR. HARRISON: It's only the public stuff
9 that is entirely dependent on Lydia?

10 DR. MICHALEK: That's it.

11 DR. HARRISON: Okay. Go ahead.

12 DR. MICHALEK: And by the way, let's talk
13 about that for a second.

14 DR. HARRISON: No, that's fine because it
15 means that Lydia is backed up.

16 DR. STOTO: In fact, why do we even need to
17 keep that key?

18 COL MARDEN: That's true; it could very
19 easily be destroyed once you put everything on the web.

20 DR. MICHALEK: Because someone may have a
21 question some day. Someone may write a letter: This
22 guy had peripheral neuropathy, what else did he have?

1 DR. STOTO: We don't know. We don't know
2 the answer to that.

3 COL MARDEN: We had to sanitize the data.

4 DR. MICHALEK: We have the data, they could
5 do a Freedom of Information Act request and they want
6 to know, "This particular case, tell me about this
7 case." Then I can link that file to our real file, and
8 I can pull the record, and then I can answer the
9 question.

10 DR. CAMACHO: But that's exactly what the
11 archive business should be about.

12 DR. MICHALEK: Yes.

13 DR. CAMACHO: Just I'm saying, if something
14 happened down the road where all kinds of lights went
15 off and they said "Can we go back and look at this? It
16 might be pertinent to something really serious here."

17 DR. MICHALEK: Right. Right.

18 DR. CAMACHO: They should be able to go back

19 --

20 DR. MICHALEK: They can.

21 DR. CAMACHO: Going through all the IRB
22 stuff, some disaster strikes --

1 DR. MICHALEK: Right, and they could say --

2 [Simultaneous discussion]

3 DR. CAMACHO: You could.

4 DR. MICHALEK: Right.

5 DR. HARRISON: May I suggest that after Joel
6 has finished going through the description, because he
7 still has a few slides to do, let's agree that one of
8 the expanded areas of discussion will be how the
9 maintenance of this study past its planned death will
10 impact on this present statement of work.

11 Okay? Because I think as a database person,
12 you probably have some ideas about this.

13 DR. STOTO: I agree with that. I also
14 think, as a discussion item either today or at the next
15 meeting, we need to think about confidentiality issues.

16 DR. MICHALEK: Exactly. I want to emphasize
17 one more thing, since we talked about Lydia. Lydia
18 knows where everything is. She knows everything.
19 Billy Jackson, Norma, Fatima, myself, we know where
20 everything is. It took years to reach this point.

21 Well, we've been with this thing for 20
22 years.

1 COL MARDEN: You realize you're going to be
2 executed and --

3 (Laughter)

4 DR. MICHALEK: Yes, and there are no
5 backups. We have five years left. We're all healthy,
6 we're all enthusiastic, hard-working and I predict
7 we'll all be around in the year 2006. But when this
8 ends and we all walk out the door, it's all lost.

9 Because now what you've got is 120 gigabytes
10 of data, 6 million documents -- now you take a strange
11 person who walks in the door. You are lost. You may
12 never understand this thing; you may never get there.

13 DR. STOTO: Well, that's a discussion that
14 we asked for.

15 DR. CAMACHO: That's a big discussion.

16 COL. MARDEN: The caretaker issue.

17 DR. HARRISON: It sounds like we have
18 another letter from the committee in the making here.

19 DR. MICHALEK: Right. That's a topic for
20 discussion. Okay.

21 Here's what's in the staff plan. I actually
22 have a slide on it.

1 By means of careful work on the part of Bill
2 Grubbs and his crew, they read our contract and they
3 meticulously go through every line, and they compare
4 with what they did last time and the time before, and
5 what they know about Scripps Clinic or they know about
6 the lab, and they call up people and they have contacts
7 at the Scripps lab and everywhere else; and they write
8 a plan. They exercise their expertise. And they tell
9 us what they think we asked for.

10 And in so doing sometimes we make some
11 changes, because this is a very complicated process.
12 And they tell us very carefully what they're going to
13 do, and that is their blueprint for their 13 months of
14 statistical activity involving five statisticians, and
15 their report writing.

16 DR. STOTO: Before you go on, one of the
17 issues that came up late in the process last time was
18 this issue of how you report significant results in the
19 summary tables.

20 Are we going to discuss that today?

21 DR. MICHALEK: It's on the table for
22 discussion, yes. If you want to make a decision on

1 that today, we could; or you could wait until December.

2 Because I think it might be handy to have a copy of
3 the report in front of everyone when we do that.

4 DR. HARRISON: The other thing that would be
5 helpful today would not be to discuss it in great
6 detail, but for Mike to take 30 seconds and make a
7 statement about the problem as it was perceived by us,
8 so that the new members of the committee will have that
9 tucked away to think about over the intervening weeks.

10 DR. MICHALEK: Okay, then let's talk about
11 it now.

12 DR. STOTO: But basically what it is, is
13 that for each major outcome they would produce a
14 summary table that said, there are six or eight
15 variables that they looked at with four statistical
16 models; then they would report whether or not there was
17 a significant difference of some sort for each of those
18 things; just whether it was significant or not.

19 DR. MINER: You mean plus-minus, sort of?

20 DR. STOTO: Well, --

21 DR. MINER: There were n's and ns's, capital
22 NS's, and --

1 DR. STOTO: Well, either significant or not
2 significant. Not positive or negative relationship,
3 you know. Yes or no.

4 DR. GOUGH: No, but just dichotomous.

5 DR. STOTO: Yes or no.

6 DR. GOUGH: With no other information?
7 Or are there no numbers.

8 DR. STOTO: There were no numbers. Maybe
9 there was a p-value, but --

10 DR. GOUGH: That's the same thing, though.

11 DR. STOTO: Well, essentially, yes. But
12 there was no -- I think the key thing is that there
13 probably should be some information that says, you
14 know, the difference was 3 millimeters of mercury or
15 something or other. Or the relative risk was 1.7.

16 DR. CAMACHO: I'd like ask him -- what do
17 you think?

18 DR. HARRISON: Just a second.

19 DR. MICHALEK: What we've got is that in the
20 chapters, all the detail is there. At the end of the
21 chapter are the tables you described. And the appendix
22 is all the detail that you want. The appendix shows

1 every single number and all the mean differences and
2 all the standard deviations along with the p-value.

3 So what we talked about was material in the
4 appendix was what you really wanted to see, and you
5 want that moved forward to replace --

6 DR. STOTO: No. I don't want all the
7 material in the appendix. The issue is that I know
8 that it's all there, but I want to put the critical
9 information in the summary so that I can look at the
10 summary and it make sense all by itself. I can drill
11 down further if necessary, but --

12 DR. HARRISON: What you're talking about is
13 probably the trickiest part of science; and that is
14 arranging the presentation of the data of the data not
15 so that it suits you, but so that an outsider, coming
16 in, will be able to follow something that feels natural
17 to them to obtain the information that they need.

18 And what I'm hearing right now -- and just a
19 second, Jay -- is that Joel, you and SAIC have
20 organized it in a way that you think makes sense, and
21 Mike -- I forget who else it was; but there were a
22 couple of people that when they looked at it thought

1 that those tables could be used more informatively.

2 Jay?

3 DR. MINER: Actually, those tables were put
4 in there at the request of the advisory committee in
5 that format.

6 DR. HARRISON: And are now going to --

7 DR. MINER: You had asked that there be--

8 DR. STOTO: Science has advanced,
9 statistical methodology has improved since then.

10 DR. MINER: And indeed, we are open to any
11 way and any suggestions.

12 DR. HARRISON: Yes; what we're talking about
13 is iterative change. You know, you put something in
14 it's almost right, and you change it a little bit and
15 it's a little better, and then that's the way it works.

16 DR. MINER: And we're not locked into any
17 displays.

18 DR. STOTO: I think the critical issue is we
19 want to be able to talk about clinical significance of
20 these results in addition to statistical significance.

21 DR. MICHALEK: We agree.

22 COL MARDEN: And that's great.

1 DR. HARRISON: I don't know how -- you know,
2 I find, though -- even though I was there, Mike, I find
3 that I'm not getting ahold of this particular point as
4 comfortably enough; and I suspect that anyone who
5 wasn't there last night was completely --

6 (Laughter)

7 DR. STOTO: No, I think that, you know,
8 Steve is right, we have to look at the tables.

9 DR. HARRISON: But what will happen is that
10 when you get the package that we've talked about that
11 has one of the chapters in it, it'll have the summary
12 -- it'll have the summary area with the tables in it,
13 and maybe you all can exchange an e-mail message or two
14 about what you -- pointing out the issues that you see,
15 because they may miss it the first time, Paul and --.

16 DR. CAMACHO: I've got to get a list of the
17 committee, too. But do we have the right to, is it
18 acceptable for us to contact everybody here?

19 DR. MINER: By law, yes.

20 DR. CAMACHO: By law. Lawyers.

21 I may talk to this individual, that woman,
22 this individual? I can freely call anybody about this

1 study?

2 DR. MINER: Yes, you can.

3 MR. COENE: The contractors? He's saying
4 the contractors, calling the contractors.

5 That's a little --

6 DR. CAMACHO: If I want to call him about
7 stats, I can call this gentleman about stats and ask
8 him questions?

9 DR. HARRISON: Dr. Grubbs?

10 DR. MINER: Actually, I don't see--.

11 DR. HARRISON: What I would suggest, though,
12 whether the law says that you can or not is not really
13 -- might be superseded by the question of which would
14 be the best way to keep our queries organized and so
15 on.

16 Now, I don't want to be perceived as being
17 overly controlling, but what I would suggest is that if
18 you have a phone call to make, I think the phone call
19 should go to Joel. Joel is the Principal Investigator
20 of the study. If he can't answer your question, it's
21 Joel's obligation to send you on to the right person,
22 and Joel should know the right person.

1 DR. CAMACHO: Okay.

2 DR. HARRISON: I would suggest if you have
3 e-mail to exchange, I think that -- I think it would be
4 nice to make it a habit to copy Ron, who can then
5 either decide just to hold on to it or it can decide to
6 copy me or someone else.

7 Whatever the law says, I would say that from
8 a procedural standpoint, it would make sense, very much
9 sense, that everything should funnel in to Joel and
10 Joel can dish it from there.

11 Is that acceptable?

12 DR. MICHALEK: Yes, of course.

13 DR. HARRISON: Okay.

14 DR. MINER: All technical issues should go
15 to him. If you have a program management question, you
16 can --

17 DR. MICHALEK: Or a contracting question.

18 DR. MINER: Contracting, you can come over
19 this way.

20 But technical that way.

21 DR. HARRISON: That's not what I'm saying.

22 Let Joel tell you that it's -- that's the way I would

1 do it. I wouldn't try to distinguish anything. I
2 would just say, "Joel, how much money is allocated for
3 such-and-such?" And Joel would say "Hell, I don't
4 know, Jay knows. Here's his number." Something like
5 that. Or "I'll put Jay in touch with you," one of
6 those things.

7 And I don't mean that so that you can keep
8 -- I just think it's important from a -- this is too
9 big a thing; it can get too unwieldy and disorganized.

10 DR. CAMACHO: Sometimes you just have a
11 question or an idea pops into your head.

12 DR. HARRISON: Yes, I don't mean to be
13 monolithic about it.

14 I'm not going to get worried whatever you
15 do. This is just a suggestion that I would go through
16 Joel. Joel is very open, he's not a problem.

17 DR. STOTO: We used basically that model
18 when I worked at the Institute of Medicine, and for
19 exactly those reasons. And I think it was a very
20 important thing to do.

21 DR. MICHALEK: That's another good point;
22 you may say "Why are we doing this? You know, how did

1 we ever get into this particular thing?" That's the
2 kind of question you should call me on. And I'll tell
3 you, "Well, we decided 15 years ago that's the way we
4 were going to do it, on the advice of the committee,
5 for example.

6 (Laughter)

7 DR. MICHALEK: So I'll give you the legacy,
8 or I'll tell you -- I don't know. Maybe you have a
9 better idea. So yes, those are important discussions.

10 DR. HARRISON: All right, what else, Joel?

11 DR. MICHALEK: Just what we got through
12 talking about, the report format is in the contract.
13 Literature review is an important point. Last cycle we
14 had a single physician doing a literature review for
15 every chapter. We'd like to change that next time,
16 have a specialist, for example, doing immunology,
17 another specialist for endocrinology.

18 So that's going to be a change from last
19 time. We had Dr. Dave Williams at Scripps write all of
20 it, and we think that we could do a better job with
21 specialists. And a discussion of the results, too.

22 DR. STOTO: Will there be someone, an editor

1 who can make sure they're in consistent form, and
2 parallel?

3 DR. MICHALEK: Yes. Well, that's the last
4 bullet here.

5 DR. MINER: That's their charge.

6 DR. MICHALEK: Report quality control.

7 DR. STOTO: No, that's not what I mean. I
8 mean if you have ten different people writing
9 literature reviews, they'll have ten different models
10 for doing it.

11 DR. MICHALEK: Yes, and that's part of
12 SAIC's job, to produce a readable report. And they
13 send us draft chapters. So they have their own editors
14 and their own writers, and they're going to smooth it
15 out and make it uniform.

16 DR. MINER: The answer is yes.

17 DR. STOTO: I think that that should be
18 explicit, as part of the --

19 DR. MICHALEK: It's in there.

20 DR. HARRISON: You might even consider that
21 SAIC should produce almost a writing manual that, I'm
22 sure -- you're already ahead of me. But it has a

1 little description of how the chapter will be laid out,
2 what the -- template.

3 All right.

4 DR. MICHALEK: So what we've got then at the
5 end stage is a process where we write these chapters;
6 SAIC writes them, and deliver them to us, we do a first
7 proofread, and send comments back. We do one kind of
8 cleanup, and then we send them to you. And then we get
9 into, we're talking -- how many chapters in the last
10 report, about --?

11 DR. GRUBBS: Twenty.

12 DR. MICHALEK: Twenty chapters, some of them
13 are up to 300 pages per chapter, right? Some of them
14 are quite lengthy. And we send them to you, and then
15 you develop a process to do a peer review of those
16 chapters.

17 Now as I recall from last cycle, you may
18 want to send them out to your own specialist. Last
19 cycle we had some specialists on the committee such as
20 Irene Check, immunology. And of course we still have
21 Dr. Harrison on endocrinology.

22 So this is a very serious end stage activity

1 to the report, to look at every single word in the
2 whole thing.

3 DR. HARRISON: Last time, too, as I recall,
4 the schedule got a little truncated so we were actually
5 reviewing material that had not yet been --

6 DR. MICHALEK: That's right, we had to skip
7 the first step in order to stay on time.

8 DR. CAMACHO: They're no funding for people
9 to do the peer review, is there? I mean -- you're
10 talking asking me asking somebody, here's a 300-page
11 chapter. "Hop on this, will you, and get it back me in
12 a couple of weeks."

13 DR. HARRISON: Anything that we do is Ron's
14 financial problem; it's not the Air Force's.

15 DR. CAMACHO: Okay. So Ron's Mr. Daddy Big
16 Bucks.

17 Practically speaking --

18 MR. COENE: other than bringing in a couple
19 of experts, because we had a couple of vacancies at the
20 time on the committee, we have not used outside
21 reviewers.

22 DR. HARRISON: We've had ad hoc -- you know,

1 we --

2 MR. COENE: At one time we had, on some of -

3 -

4 DR. HARRISON: First time -- that was ad
5 hoc.

6 MR. COENE: Yes.

7 DR. CAMACHO: All I'm saying is that
8 depending on the time crunch, it may be really
9 difficult to go shopping around to associates and
10 colleagues to tell them, "take a look at 300 pages here
11 in your -- the free time you've got."

12 DR. HARRISON: That's something that we need
13 to discuss when Joel's finished his presentation. I'll
14 make a note for a review, but my comment is just that
15 --

16 DR. MICHALEK: Let me just emphasize the
17 point differently: Your name will be on the report,
18 because you are the peer reviewers.

19 DR. HARRISON: Understood. But what I'm
20 getting at --

21 DR. MICHALEK: Drove that one home.

22 (Laughter)

1 DR. HARRISON: What I'm getting at is that
2 we need to make sure that that schedule has enough
3 cushion in it that what we're reviewing is --

4 DR. CAMACHO: Is your final.

5 DR. HARRISON: -- reasonably clean stuff and
6 not the rough draft stuff.

7 DR. CAMACHO: Otherwise, you know what
8 happens? There's this bag.

9 DR. MICHALEK: Jay, can you recall what
10 happened to our process last time and how it got
11 disrupted?

12 DR. MINER: Umm --

13 COL. MARDEN: Freedom of Information Act.

14 DR. MINER: Actually, part of the trouble
15 was that we couldn't engage the committee early enough.
16 And that had to do with funding, I think, on y'all's
17 side of the house, and not being able to get together.

18 MR. COENE: But then there was another part
19 to it, because when we then started to move on it, we
20 found out that we were looking at documents that hadn't
21 received the Air Force's review, and we said "Hey, we
22 don't want to do that."

1 DR. MICHALEK: And how did we get into that
2 problem?

3 DR. MINER: Well, initially we were trying
4 to, because of the truncated time, though, send them
5 documents at the same time that we got them, first
6 goaround.

7 DR. HARRISON: That's what I'm saying.

8 DR. MINER: They wanted to see our comments
9 on these documents first, and incorporated; and so in
10 our deliverable schedule, we didn't build in enough
11 time to do that.

12 MR. COENE: And we need to see that, then.
13 This time -- we now know we don't want it that way.

14 DR. HARRISON: That's what I'm saying, Jay;
15 that we need that timing.

16 DR. MINER: But we had enough actually slop
17 time in some of the earlier chapters that, had we
18 engaged you, we could have met everything. But it
19 wasn't built in contractually, either; and we will --

20 MR. COENE: Fix that.

21 DR. MINER: -- fix that next time.

22 MR. COENE: We should see, you know I guess

1 in December a new timeline so we can look at those; and
2 then -- so the committee understands their involvement,
3 how much time that you have programmed in for us, if
4 that meets their --

5 DR. CAMACHO: If we think that's adequate.
6 You know, prior planning prevents future --.

7 DR. STOTO: Are we talking about something
8 that's happening in 2004, or something like that?

9 LTC BURNHAM: Yes.

10 DR. STOTO: We need to talk about it.

11 MR. COENE: Yes, because it's in the
12 contract. So you have to --

13 DR. HARRISON: The other thing we can talk
14 about doing later on is what's been mentioned before,
15 and that is specifying either a three times yearly or
16 four times yearly meeting, and at least specifying the
17 months for those meetings so that we are on a schedule
18 and not just kind of loosely around.

19 DR. CAMACHO: You're looking for the
20 committee to help the project. Calling me at the last
21 minute, you know any of that last-minute-Charlie stuff,
22 it drives me crazy. Because especially if it's a

1 project like this which I have an interest in, and an
2 interest in helping in.

3 And these guys will call me, "Paul, we
4 needed it yesterday." "J.C. Why the hell didn't you--
5 ?

6 (Laughter)

7 "This thing has been in the -- call me a
8 week, two weeks ago, three weeks ago, a month ago, six
9 months ago." You know?

10 DR. HARRISON: Okay.

11 LTC BURNHAM: But see, you were a
12 replacement.

13 MR. COENE: Yes, we need to be sure to
14 examine the timeline. Because it's in that timeline --

15 DR. HARRISON: "You want it when?"

16 MR. COENE: I'm not going to be here, but
17 there will --. Jay, how do you -- you got back into
18 this and contracted for this? Maybe that's what HHS
19 will do.

20 LTC BURNHAM: But someone will replace you,
21 right?

22 MR. COENE: I-- hey, I sure can't speak for

1 the Secretary.

2 DR. STOTO: Is that something that the
3 committee should get involved with?

4 MR. COENE: Well, you can do anything you
5 want.

6 DR. STOTO: Maybe you can't comment.

7 MR. COENE: Yes, obviously I think that
8 probably -- I don't know. I'm very disappointed in the
9 Department's -- I'll go on record -- and its response
10 to this.

11 DR. HARRISON: Who is the person making the
12 decision on your replacement?

13 DR. STOTO: That's the right question to
14 ask.

15 DR. HARRISON: That can't be a secret.

16 COL MARDEN: Yes, but it could be unknown. I
17 mean, look at the Department he works in.

18 DR. HARRISON: Ron knows everything.

19 Who's the new --

20 MR. COENE: In theory -- Director Cassiano
21 is the director.

22 DR. HARRISON: Director Cassiano.

1 DR. CAMACHO: I'm glad this came up; then
2 this is an issue that we're going to have to talk to
3 you about and find out about.

4 DR. HARRISON: Well, what I would say is --

5 DR. CAMACHO: That's a big danger right
6 there. If you dropped out of space tomorrow, you're
7 saying there's no provision --

8 MR. COENE: Barbara will still be here.

9 DR. CAMACHO: But there's no real decision-
10 making provisions, et cetera, so everything goes in
11 limbo on our side.

12 DR. HARRISON: What I would say, Paul, is
13 that, if I get the feel for this, first of all just
14 about every one of us on the committee are experienced
15 enough to have some idea of what the issues are and
16 what's going on. So we don't really need to query Ron,
17 and we especially don't need to query him on the public
18 record about what's going on with his position.

19 DR. CAMACHO: No, but we should indicate for
20 the record that this is a concern. Because.

21 DR. HARRISON: Well, what we can state for
22 the record, if it was the committee's will, what we can

1 state for the record is that I should make inquiries on
2 behalf of the committee out of concern for continuity
3 and planning for this next cycle.

4 And since it is a public issue, I would
5 think that people such as representatives of the Ranch
6 Hand organization would be very much concerned that
7 through bureaucratic shilly-shallying around that the
8 proper support was not forthcoming from the Food and
9 Drug Administration to provide the Air Force with the
10 advice that they need.

11 DR. CAMACHO: I can tell you this right now;
12 the Veterans Affairs Committee is going to be very
13 concerned about this. I'm not speaking for them, but
14 I'll bet --

15 MR. COENE: Let me put this on the record.
16 I will make every attempt to have identified for you
17 the new exec sec at the December meeting.

18 DR. STOTO: That's critical, because you
19 know, on January 20th next year, the whole Department
20 of Health and Human Services is going to grind to a
21 halt for six months at the Secretarial level.

22 DR. HARRISON: It's probably grinding to a

1 halt already. That's what's happening, and we're in
2 this very awkward timing.

3 MR. COENE: I will make every attempt to
4 have Dr. Cassiano inform you who he is going to assign
5 --

6 DR. HARRISON: I'm going to make every
7 attempt to call Dr. Cassiano next week, just in an
8 informal way, and just --

9 MR. COENE: Okay.

10 DR. CAMACHO: I'll work with you on the --
11 I'll just talk to you, because I know the committee's
12 going to be very concerned. I just know it.

13 DR. HARRISON: Well, this is a public
14 meeting, so I would expect that those people who are
15 associated with other political groups will do what
16 they're expected to do.

17 How's that?

18 COL. MARDEN: Ron, when are you scheduled to
19 retire?

20 MR. COENE: December 31st.

21 DR. HARRISON: So, that's something that I
22 hadn't thought about.

1 Okay, anything else, Jay?

2 DR. MINER: Yes. I think it would be
3 helpful then for next time, they'll build us a Gantt
4 chart on the actual review process of the chapters --

5 MS. YEAGER: A sample.

6 DR. MINER: A sample, and I'll present that
7 next time, or have Joel present it next time.

8 MR. COENE: We'll get some idea of what you
9 have anticipated the committee has, a time and where we
10 have to fit the meetings in then.

11 DR. MICHALEK: Okay, just two more slides;
12 just to remind you that the basic statistical analysis
13 structure is in the contract, telling the 4 models that
14 I talked about earlier, and the definition of dioxin
15 categories are in there, too.

16 So that's it, and there isn't much to say
17 except now it's up to you to ask questions and think it
18 over.

19 DR. HARRISON: All right. Questions, Mike
20 Gough?

21 DR. GOUGH: Would it be possible to have, in
22 the new statement of work, to have a red lined version

1 where things that are changed are highlighted or bolded
2 or something so that we can -- when we read it, we
3 don't have to read every word, but we can see what the
4 changes are to see if they make sense to us?

5 DR. MICHALEK: We could do that, of course;
6 but I think you'd be encumbered by that more than
7 helped. Because there are so many, we call it
8 wordsmithing. There will be changes in grammar,
9 punctuation --

10 DR. STOTO: Well, how about if you try to
11 just isolate the ones you think are important, somehow.

12 DR. GOUGH: Where there's a new paragraph --

13 DR. MICHALEK: So you might want to wait
14 until like the second revision, and then start
15 including all the -- red highlight.

16 DR. HARRISON: What he's saying is that in
17 word there's a thing called highlighting.

18 DR. MICHALEK: True.

19 DR. HARRISON: And if you print it out in
20 color it comes out as yellow; but if you print it out
21 in black and white, it just comes out as a little grade
22 strip across.

1 DR. MICHALEK: Right.

2 DR. HARRISON: So when you're reviewing
3 contract you know the parts in there that are
4 wordsmithing and the parts in there that are changes,
5 so why don't you just highlight the parts that are
6 changes?

7 DR. MICHALEK: All right, we can do that.

8 DR. GOUGH: And it would also facilitate the
9 committee's discussion of it, when we go through it.

10 DR. HARRISON: Of course the problem with
11 that is, that if he fails to highlight something, that
12 you --

13 DR. GOUGH: We'll never see it.

14 DR. HARRISON: -- subsequently proceed as
15 being an important change, then all hell breaks loose.

16 DR. GOUGH: But that's our responsibility.

17 The other thing is, because of the focus on
18 diabetes, what specific additions do you intend to make
19 -- are you thinking about making?

20 DR. MICHALEK: As far as diabetes goes, all
21 I can recall is that we will introduce the latest ADA
22 definition, and alongside that we'll use the definition

1 we used in the previous report. We'll be measuring
2 fasting glucose this time; that we had not measured
3 before.

4 Other than that, I believe all the same
5 measurements will be made again.

6 DR. GOUGH: Well, is that -- Bob, can you
7 think of anything else that needs to be added? Or will
8 you?

9 DR. HARRISON: I'll think about it. You
10 know, I don't remember what's --

11 DR. STOTO: We do have the hemoglobin A1C.
12 It's already in there, right?

13 DR. MICHALEK: A1C hemoglobin is there. You
14 might think about the 1992 report. There we measured
15 pro-insulin, glucagon -- but we dropped those on your
16 advice.

17 DR. HARRISON: I don't really see that as
18 being -- I'll think about it. But the way I would
19 think about it would be, is there any doubt that these
20 patients have diabetes? Is there any doubt that they
21 all have diabetes that has the same fundamental cause?
22 You know, we talked before about Type I and Type II;

1 and as long as those things are tied down, I'm not -- I
2 mean you can look for other signs that you know should
3 be there; diabetes causes kidney damage and things --
4 that doesn't enhance the observation that there's a
5 relationship between exposure and the subsequent
6 development of diabetes.

7 DR. GOUGH: Then from that specific, it
8 leads into a more general thing. I was surprised
9 yesterday to learn that there was a short term memory
10 deficit in 1982. Has there been attempt -- has that
11 ever shown up again?

12 DR. MICHALEK: No, we never gave that Wexler
13 memory scale at any other physical; we only gave it in
14 '82. Well, certainly --

15 COL. MARDEN: But it wasn't analyzed until -

16 -

17 DR. MICHALEK: It wasn't analyzed until
18 recently. Because why? Well, because prioritized.

19 DR. GOUGH: Well, there should be a follow-
20 up on that, I would think.

21 DR. MICHALEK: We're going to do the
22 Wechsler memory scale on the next physical. And by the

1 way, we've already consulted with our psychologist
2 experts that we need to give exactly the same version
3 of the WMS that was given in '82. There are new
4 versions out today, no good; you've got to do exactly
5 that one. But we know how to do that, so.

6 DR. GOUGH: I thought about the composition
7 of the advisory committee. When I stepped down from
8 the advisory committee, it was because I thought there
9 should be a physician as a chairman, because all of
10 this is clinical science now.

11 DR. HARRISON: And you've changed your mind
12 since then, right?

13 DR. GOUGH: No; but there are two physicians
14 now on the panel? You and Dr. --

15 DR. HARRISON: Three.

16 DR. GOUGH: Who.

17 MR. COENE: Favata, Landrigen, and Osay.

18 DR. GOUGH: Okay, four then.

19 MR. COENE: Four.

20 DR. GOUGH: But nevertheless, we're really
21 thin on the ground. And it seems to me that for these
22 other specific endpoints that you identified yesterday

1 with the pluses, that at a minimum, I think the Air
2 Force should consult with SAIC who should consult with
3 the people at Scripps in those departments about what
4 would you -- if you wanted to follow up on this
5 suggestion, what are the tests you would add or
6 something. And let us know about those things.

7 Because there's a wealth of information out there; it's
8 not going to be around this table, as you well know.

9 DR. MICHALEK: Good point, yes.

10 DR. GOUGH: And, let's see. I'm including
11 the neuropathy, the peripheral neuropathy.

12 And I think that we should have for us, the
13 Advisory Committee and for our accountability, that if
14 things slip, if things get -- on this time table, if
15 things slip, if things get late to us, we don't make up
16 that deficit; we get the time we were allotted.

17 Because this is the last time we'll do it, and the
18 review is going to have to be complete, I think.

19 DR. MICHALEK: That's right.

20 DR. GOUGH: And I can't imagine it's going
21 to be a long period of time.

22 In reference to this idea of meeting more

1 frequently, I have a monthly schedule. January we'll
2 meet in Denver; February in California; March, Florida
3 or Puerto Rico; May or April, D.C. or Tennessee; June,
4 Pennsylvania; July, New Hampshire; August, Maine;
5 September, Washington State; October, New York City;
6 November, San Antonio -- and we won't meet in December
7 because of the holidays.

8 DR. HARRISON: Do I hear a motion?

9 (Laughter)

10 MR. COENE: I want to go on record, we did
11 get -- through all of the machinations of this
12 committee and Department's focus on it, the Secretary,
13 through the acting director of the NIH and the
14 Commissioner of the Food and Drug Administration agreed
15 that NIH would put \$48,000 up last year, and made
16 available \$72,000 in fiscal 2001, which we've just
17 started.

18 So that there is that amount of money
19 available to support the committee. And that's
20 discretion; that's over and above Barbara and I's
21 salaries.

22 LTC BURNHAM: How much -- is that enough for

1 four meetings?

2 MR. COENE: This year -- yes, this year.

3 DR. HARRISON: How much do you figure one
4 meeting costs?

5 MR. COENE: \$20,000.

6 DR. CAMACHO: It's in discretionary budget?

7 MR. COENE: Yes, it's a reimbursement. The
8 NIH transferred \$48,000 in 2000 and \$72,000 in 2001.

9 DR. HARRISON: So you have \$58,000 left now?

10 MR. COENE: Yes.

11 DR. HARRISON: And -- okay.

12 DR. STOTO: The issue is not money so much
13 as the staff. In other words, someone having
14 responsibility for it.

15 DR. CAMACHO: Well, it's both. We can get
16 to that later, right?

17 MR. COENE: Like I say, I'll talk to
18 Cassiano.

19 DR. HARRISON: Okay. Mike and then Paul.
20 I'm sorry. Joel, are you finished?

21 DR. MICHALEK: I just have a couple more
22 things to go through.

1 DR. GOUGH: Oh, I thought you were finished,
2 too.

3 DR. HARRISON: Are there things that you all
4 have relevant to Joel's presentation, or did you think
5 he was finished?

6 DR. CAMACHO: I thought he was finished.

7 DR. STOTO: I had something about the last
8 slide.

9 DR. HARRISON: Okay.

10 DR. STOTO: The last slide, about the one
11 report that talks about dioxin levels being greater or
12 less than 10 parts per trillion being kind of a magic
13 number. And that shows up in the analysis at various
14 times, where essentially it's assumed to be zero if
15 it's less than 10. Or not quite that.

16 I think that's an issue that needs to be
17 discussed, and I don't think we're prepared to discuss
18 it now, but we can flag that for --

19 DR. GOUGH: What was the discussion?
20 There's got to be a cut point, I think, and it can't be
21 zero, because zero doesn't exist with dioxin
22 concentrations.

1 DR. STOTO: I don't know that it's as simple
2 as that.

3 DR. GOUGH: Well, complicate it for me.

4 DR. STOTO: Well, you can use the number
5 that was given, and in analysis and taken into account
6 in the analysis that there's a background level.
7 There's all sorts of things that can be done. Maybe
8 this is the right thing to do, but I just think it
9 needs to be discussed.

10 DR. MICHALEK: We have some data to show
11 that, by the way. We have a few slides.

12 DR. HARRISON: It sounds to me like -- I
13 think I mentioned this before. It sounds to me like
14 the EPA's argument that any concentration is relevant.
15 And from a biological standpoint, I have to strongly
16 disagree. I think something that is -- something that
17 is 100,000-fold below the concentration required to --

18 DR. STOTO: I'm not arguing about that. The
19 issue is that --

20 DR. HARRISON: I think 10 is too low.

21 DR. STOTO: Well, the issue is that certain
22 individuals are excluded from certain analyses or

1 treated in one group versus another, if they have 9
2 parts per trillion. And I think that an alternative
3 would be just to use the number 9 just as if you used
4 the No. 11.

5 I think there are various ways of handling
6 this statistically. It's not a question of saying
7 whether it's safe or not or whether it's background or
8 not, but just having you do the statistical analysis;
9 and I think that there are issues that need to be
10 discussed there.

11 DR. HARRISON: Okay, but I'm trying to
12 insert the biological part in here. And what I'm
13 saying from a biological standpoint is that the
14 sensitivity of the analysis is far greater than the
15 biological organism.

16 As far as the biological organism is
17 concerned, I would contend that one part per billion is
18 imperceptible to the organism. And if one part per
19 billion is imperceptible, then all of these are zero.

20 DR. STOTO: Well, I think that biology is
21 relevant to the statistical discussion, but there's
22 more to it than that.

1 DR. HARRISON: Okay. All right.

2 DR. GOUGH: What's the air around, if you
3 took samples, and I'm sure it get easy -- that you
4 measure the first time, it's 10 parts per trillion, and
5 you measure the same sample a dozen times. What's the
6 plus or minus around 10.

7 DR. MICHALEK: On an individual?

8 COL. MARDEN: On a given sample.

9 DR. GOUGH: On the individual sample. Just
10 what is the variation in the test itself?

11 DR. MICHALEK: It's a 9 percent c.v., so I'd
12 have to figure that out.

13 DR. STOTO: Plus or minus one.

14 DR. MICHALEK: The mission depends on the
15 means. I've got to work on that. I'll give you an
16 answer next time.

17 DR. GOUGH: Because if the cloud is big
18 enough, then the 10 is --.

19 DR. HARRISON: So 10 would be anywhere from
20 9 to 11.

21 DR. MICHALEK: All right, let's put it this
22 way; if it were a 10 percent c.v. --

1 DR. STOTO: I think we should cut this off
2 now and then have a full discussion on it when we can
3 look at all the facts.

4 DR. GOUGH: Joel, that's an answer --
5 somebody knows that.

6 DR. MICHALEK: I can answer it.

7 DR. GOUGH: Okay.

8 DR. HARRISON: Let me ask Mike this.

9 Mike, what do you consider to be the correct
10 process to -- how would you like to discuss this?

11 DR. STOTO: I think that we need to look at
12 the statistical plan where there are points in the plan
13 where you say, you know, treat everybody -- do this
14 analysis only on people who have background greater
15 than 10 or something like that; and look at those
16 decisions that reflect this cut point, and think
17 through what are the options, what are the
18 alternatives, what are the pros and cons.

19 DR. HARRISON: So what you're saying is that
20 you want to discuss the 10 cut point -- and this should
21 be an action item, actually -- you wanted to make sure
22 that we discussed the 10 cut point as a part of your

1 analysis of the statistical section of the statement of
2 work in the December meeting.

3 DR. STOTO: You know, what they do is in
4 some ways now this exposure study of obesity to say,
5 well anybody with a body mass index of less than 30,
6 we're going to leave them out of the analysis. That
7 leads to certain biases.

8 DR. MICHALEK: Right.

9 DR. HARRISON: And I would be opposed to
10 that.

11 DR. STOTO: Well, that's kind of what
12 they're doing.

13 DR. MICHALEK: But the reason -- but Mike,
14 the reason I would be opposed to that is that even
15 within the normal BMI range of 20 to 25, people with a
16 BMI of 20 have less diabetes than people with a BMI of
17 25.

18 So I can show a biological significance
19 within the normal range for a particular measurement.
20 So from my perspective, I defend it because of -- from
21 the standpoint of biological relevance.

22 DR. STOTO: I'm not trying to say these guys

1 are wrong, I'm saying that it needs a discussion. This
2 is the kind of discussion we would make.

3 DR. HARRISON: What I would suggest is that
4 there should be no assay, that assays lower than the
5 body can perceive.

6 DR. SELVIN: Let me support Mike in this. I
7 don't think it's a biological question. The biological
8 question follows after the analysis is complete, and
9 it's statistical optimum to use the data as measured.

10 It's a waste of time and money, so to speak,
11 to cut the data into two pieces and analyze it as a
12 binary variable. You don't lose anything by analyzing,
13 in its continuous form, understanding what's going on
14 in the analysis, and then you can cut it where you want
15 with biological plausibility to describe the
16 phenomenon.

17 DR. HARRISON: Well, if we cut it where I
18 want it --

19 DR. SELVIN: You can do that post-analysis.

20 DR. STOTO: That's the interpretation, But
21 we're talking about how to do the analysis.

22 DR. SELVIN: If you take a normally-

1 distributed variable, just to be a little technical.
2 If you take a normally-distributed variable and cut it,
3 it's akin to throwing away 30 percent of your data.
4 It's 30 percent less efficient to deal with the binary
5 variable than it is a continuance.

6 DR. MINER: We would like to respond.

7 Joel, please.

8 DR. MICHALEK: May I respond?

9 DR. HARRISON: Well, are you finished?

10 DR. SELVIN: Yes.

11 DR. HARRISON: Is Dr. Selvin finished,
12 because that's --

13 DR. MICHALEK: Go ahead, finish.

14 DR. SELVIN: No, I'd like to hear what you
15 have to say.

16 DR. MICHALEK: First of all, all continuous
17 data is analyzed twice. It's analyzed continuous form
18 and it's analyzed in binary form.

19 For example, blood glucose. We analyze it
20 as a continuous variable using every single
21 measurement--

22 DR. STOTO: This is a different issue, Joel.

1

2 DR. MICHALEK: I know, but I'm getting
3 there, I'm getting there.

4 DR. HARRISON: Because this has to do with
5 the statistical model, right?

6 DR. CAMACHO: Let's let him --.

7 DR. MICHALEK: Every single variable is
8 analyzed at least twice. Now dioxin, we use that 10
9 parts per trillion cut point in two places; right here
10 on the initial dose, because we don't like to
11 extrapolate people to Vietnam that have 1 parts per
12 trillion. We only like to extract people that are
13 above background.

14 Now there are other ways to do that, and I
15 agree. But that's what we did; I'm telling you what we
16 did. The 10 parts per trillion cut point here, we used
17 it down here on this dioxin category thing which is on
18 the slide you saw, but we did not use it here. Because
19 in this model we didn't use dioxin at all. We said all
20 Ranch Handers versus all Controls. All Ranch Hander
21 versus all officer controls.

22 We did not use it down here. Here we're

1 using every single dioxin measurement at its absolute
2 face value on every single subject, because we're
3 regressing health on dioxin. Right down to zero,
4 we're using all the data, without any truncation,
5 without any explosions, everybody is in that model,
6 that last model.

7 DR. HARRISON: So what's your explanation
8 for truncating, though, in the two categories?

9 DR. MICHALEK: We're only truncating on that
10 initial dose estimate, because we believe that the
11 first order model does not hold at background levels.
12 We believe that when you're at background levels,
13 you're at steady state. That first order model doesn't
14 hold. That's why we cut it at 10.

15 Now a way to modify that is to just let
16 everybody below 10 have their current value, and then
17 you include everyone in the model. And I agree with
18 that modification; that's fine. I don't see an issue
19 there.

20 DR. HARRISON: If you did a regression, if
21 you thought that the less than 10 was background,
22 you're saying then that the regression line was flat,

1 and so when you regress back to Vietnam, you're going
2 to be at the same number that you measured.

3 DR. MICHALEK: No. If you attempt to use
4 the first order model with someone with 2 parts per
5 trillion, you're telling me that you believe -- go
6 ahead.

7 DR. STOTO: Please. I don't remember the
8 details of this. We need to see the plan to see what's
9 at stake here. We just can't have this discussion now.

10 DR. HARRISON: Well, I think we can, though,
11 Mike. Because if I understand correctly, what you're
12 saying is that if you start out with a very low level
13 in Vietnam, and you have a regression -- and you have a
14 certain half-life, then you may reach background within
15 five years.

16 At that point, then, by the time the study
17 starts, you're measuring background levels several
18 times. And you have no way to go back and estimate the
19 original value.

20 DR. STOTO: The issue here is how to do a
21 statistical analysis. It's not the biology or the
22 biology is relevant to that question, but the issue is

1 how to do statistical analysis; and I don't remember
2 the details of what they did, and I'm not prepared to
3 discuss this without seeing the details on paper in
4 front of me.

5 DR. HARRISON: Okay. All right, so we'll
6 put that on the agenda for the next meeting.

7 Jay?

8 DR. MINER: One of the purposes of having a
9 December meeting was first to bring up sticky issues
10 here, and not so much to get wrapped around the axle
11 with them, but let you all go back and think about it
12 and get stuff lined up and then come back in December
13 and make some decisions, yes.

14 DR. HARRISON: Okay. all right.

15 DR. CAMACHO: My only concern is that the
16 time line for this is short.

17 DR. HARRISON: Agreed.

18 I'd like to raise another issue.

19 Oh, I'm sorry. Go ahead, Joel.

20 DR. MICHALEK: Just one more thing. I
21 wanted to emphasize another point.

22 Another thing that you should watch for as

1 you go through this is covariates.

2 One of the strengths of our study is the
3 fact that we're able to adjust for smoking, current
4 smoking and entire lifetime history of smoking as
5 measured by pack-years; same thing with drinking. This
6 is one of the few studies that has a complete set of
7 covariates in every analysis.

8 And by the way, every one of these analyses
9 are done twice; once is not adjusted and one is
10 adjusted. So you're talking about four -- and there's
11 one for each of these; that's three, five, six, seven
12 times two, that's 14 analyses for each of 200 outcomes
13 -- more than that, because the lab variables are done
14 twice, continuously distributed and binary. We're
15 talking hundreds of statistical analyses here.

16 DR. SELVIN: Why do you do the unadjusted?

17 DR. HARRISON: Because we want to see --
18 this goes back to Paula Maier, used to be on the
19 committee, 1985, introduced the idea of showing both
20 unadjusted and adjusted, and since then we've liked it,
21 because that way we can see the effect of the
22 covariates.

1 And by the way, many times the unadjusted
2 are not that much different from the adjusted, and that
3 lends credence to the results.

4 The point on the covariates is that they may
5 not be up to date; there may be a new covariate that
6 you thought of that we didn't, and a new risk factor.
7 In other words, a new confounder that we missed in the
8 contract. So you need to think about that, and this is
9 an important piece.

10 Another good example of that is personality
11 type. It's a covariate for heart disease, but our
12 measurement of it is pretty lousy. It was the Jenkins
13 Activity Scale. These men rebelled, they don't want to
14 look at it anymore; and the reason is they've taken it
15 every time, that's one thing; secondly, the Jenkins
16 Activity questionnaire is directed at a normal working
17 individual, you know, who is employed; because there
18 are questions in there about waiting in line at work or
19 things happening at the office. Many of these guys are
20 retired. They say, "What are you doing? Why are you
21 bothering me with this?" You know, and they just shove
22 it aside or they'll take their pencil and mark straight

1 down the page, all Yes's.

2 (Laughter)

3 Or they'll do little designs.

4 (Laughter)

5 So if we're going to measure personality
6 type, we need to find some other way to do it.

7 DR. STOTO: Why do you have to measure it
8 again?

9 DR. MICHALEK: Well, if that's the decision,
10 fine; we won't. You think about it.

11 DR. MINER: A logistical problem, perhaps
12 raised here. If we meet in December, very short time
13 line for lots of decisions; meet again in early March
14 would still make it under the wire for statement of
15 work changes.

16 So --

17 DR. CAMACHO: That's a good suggestion. How
18 much time --

19 DR. MINER: But that's you'all's call.

20 DR. CAMACHO: How much time are we having in
21 December? Is it one day, day and a half --?

22 MR. COENE: That's to be discussed.

1 DR. HARRISON: That's for us to discuss.

2 MR. COENE: This morning.

3 DR. CAMACHO: Okay.

4 DR. MINER: I'm not saying slip the December
5 meeting, because I think there's plenty; but maybe
6 another meeting early, then.

7 DR. HARRISON: Joel, do you have any --?

8 DR. MICHALEK: No, I'm all done.

9 DR. CAMACHO: I had one thing about the data
10 in the future.

11 Well, we were asked to come up with this
12 sort of I guess very beginning of talking about
13 archiving all the stuff in six years.

14 So we were asked to put a statement in for
15 the record; so the suggestion is something along these
16 lines, that:

17 The Advisory Committee is concerned about the
18 termination of the Ranch Hand II Project in
19 2006. Consideration must be given for the
20 development of an archive which will ensure
21 the preservation of all pertinent data
22 samples and other research materials

1 associated with the project.

2 Given the high profile of the study, -- why don't you
3 read that?

4 DR. SILLS: [reading]

5 Given the high profile of the study
6 materials, and the fact that the Ranch Hand
7 study is one of the most comprehensive and
8 well-organized studies with consistent
9 successive samples from the same controls and
10 exposed veterans, the Committee emphasized
11 urgent need to maintain the funding of the
12 materials and samples which are too valuable
13 to place at risk.

14 DR. CAMACHO: [reading]

15 So an initial estimation study should be
16 developed which can assess the multiple
17 factors criteria for future access and the
18 accompanying costs involved for such an
19 archive. A designee or subcommittee of the
20 Advisory Committee will work the study team
21 to develop such an initial estimate, RFP or
22 whatever for this endeavor.

1 Something along those lines.

2 DR. STOTO: I think that that's very good.

3 I would add one thing which I think is implicit that we
4 all understand, but I don't think is explicit there;
5 and that is that the value of the data in these samples
6 will continue long after the data gathering stops,
7 because of the possibility of new hypotheses, new ways
8 of analyzing samples, and so on and so forth. I think
9 that's implicit.

10 DR. HARRISON: You know, you can always
11 think of things to add; but I think that the two of
12 you have done a really nice job of putting together all
13 of the thoughts that we've had about the importance of
14 maintaining this.

15 Mike, you were going to say something?

16 DR. GOUGH: I think it's a brilliant
17 paragraph because it has an action plan in it. I mean,
18 it doesn't say "this is what we recommend"; it says
19 "this is what should be done." So I think that's
20 really good.

21 DR. HARRISON: So -- our executive director
22 is --

1 MR. COENE: It seems to me that probably
2 that the thought needs to be taken out of the minutes
3 of this meeting and delivered, at least, to a couple of
4 appropriate places; I think the Surgeon General of the
5 Air Force and the Secretary of HHS.

6 It seemed to me that that at least needs to
7 go on record and at least -- and we've committed to do
8 something in here, we the committee, and the project
9 team. But that we need to alert those powers --.

10 DR. HARRISON: Why don't I undertake to do
11 this. First of all, does the committee agree that we
12 would like to see this statement inserted in the
13 minutes as one of our concerns? Is that general
14 consensus?

15 Any objections?

16 Okay. So you all will deliver your
17 statement to Barbara, and Barbara will make sure it
18 gets into the record.

19 MR. COENE: Well, and it's been captured.

20 DR. HARRISON: All right.

21 MS. JEWELL: But you're going to change that
22 just a little bit? I saw you writing.

1 MR. COENE: Yes.

2 DR. CAMACHO: I like that statement; you
3 want to tell me about --

4 DR. SILLS: How about the --

5 MS. JEWELL: If you get it to me, I'll get
6 it to Dan.

7 DR. CAMACHO: Okay. Value of the --

8 MR. COENE: We'll make sure it's in there.

9 DR. STOTO: It's the value of the data, the
10 clinical data and samples continues far beyond the time
11 needed to gather the data, or something like that.

12 DR. HARRISON: Now, what I can propose to do
13 for the committee is something similar to what I did
14 the last time. And that is, I'll compose a letter to
15 the Secretary of the Air Force and to Secretary
16 Shalala, saying that there was an issue that arose
17 during the latest meeting of the Ranch Hand Advisory
18 Committee concerning the preservation of these samples
19 beyond the termination of the study in 2006.

20 And when I did that letter before, I e-
21 mailed it around to the committee members, who e-mailed
22 back suggestions and corrections. I incorporated those

1 and they sent the letter out on behalf of the
2 committee.

3 If that's acceptable, I'll do that again and
4 we'll get the same results --no.

5 DR. CAMACHO: But see, that's what -- I have
6 some knowledge base about this, okay? And we've got a
7 good chunk of years to do this in. By the time we
8 march to the end, if we let me have some input in this
9 --

10 DR. HARRISON: If we play our cards right.

11 DR. CAMACHO: -- if we play the cards right,
12 we're going to go to a couple different committees,
13 walk right through from authorization and
14 appropriations and find the dough and make sure it gets
15 done; if we do our game plan right with no last-minute-
16 Charlie stuff.

17 DR. HARRISON: Okay. I would also like to
18 bring up something else, if I may.

19 DR. STOTO: I'd like to say one more thing
20 about this. I think the concept of having made a big
21 investment in this study so far is an idea to get in.

22 DR. HARRISON: I'll certainly incorporate it

1 in the letter.

2 I want to bring up something else. I got to
3 thinking about this night, and I think if I were Joel,
4 if I were the principal investigator on this study, and
5 I had to plan what I was going to do over the next few
6 years. I would make the assumption, number one, that
7 we'll be successful in obtaining some sort of support
8 to maintain this archive of samples and data beyond the
9 planned termination of the data. Because to plan
10 otherwise is kind of futile.

11 And I know that I've got a certain amount of
12 money to go to the end of the study. I would make sure
13 that I included all of the longitudinal things that
14 have been a part of the protocol all along, because
15 that's important for completion of the longitudinal
16 study. So I've set that money aside, and then I'd look
17 at what I had left and I'd say, "What can I do with
18 this money that would enhance the value of this archive
19 for the studies that are going to be performed past the
20 year 2006?"

21 Now obviously it's kind of based on what I
22 -- just triggered me yesterday with the Epstein-Barr

1 transformation, saving live cells as an archive. And I
2 don't really know if there's anything else that could
3 be done, but for example -- and I guess the other part
4 of it is, I don't think that you're going to solve -- I
5 don't think you're going to discover why documentation
6 increases the occurrence of database in a couple of
7 studies.

8 On the other hand, I'm not sure what the SAS
9 file format is. What I mean by that is, that I know
10 that nowadays there are SQL relational databases --

11 DR. CAMACHO: That's a different--

12 DR. HARRISON: There's XML-accessible -- my
13 question, don't get tied up on the specifics. My
14 question is, for instance, is it worth considering yet
15 a third format for the entire database that might make
16 it more accessible, more searchable, more evaluable?
17 And I'm only mentioning that as a suggestion, not
18 something that I feel like there's something to be
19 done. Yes, sir.

20 COL. MARDEN: We already know that there's
21 lots of data that was electronically archived 15-20
22 years ago that is almost unusable because of the legacy

1 systems and the legacy types of format that it was
2 archived in.

3 DR. SELVIN: 8-inch floppy drives, something
4 like that.

5 COL. MARDEN: Yes. So my 5-1/4 inch is
6 getting pretty long in the tooth.

7 The point being, I think there's no
8 substitute for the hard copy, no matter how many ways
9 we digitize the data, I think we're going to have to
10 keep that hard copy.

11 DR. HARRISON: For instance, what about a
12 plan to bring all the legacy stuff up to one single
13 format?

14 DR. CAMACHO: Wait. When you're storing
15 data, there's a variety of ways to do it. SAS-- it's
16 not going to happen. SAS goes out of business and
17 three years later nobody has any of the software to do
18 a SAS file. But the fact is a standard SDF,
19 everything's in a row, you've got the data record one
20 row or if you have multiple rows, they're linked
21 relationally by the ID, et cetera, et cetera. That's
22 it, I don't care what you've got. Whatever data

1 program you've got in the future, it's going to pick it
2 up. An SDF file is an SDF file; its standard columns,
3 there they are, we go out this far; it doesn't make a
4 damn.

5 I mean, you don't --

6 DR. MICHALEK: We put it out two ways: flat
7 files and SAS files.

8 DR. CAMACHO: And the SAS file can be
9 changed and modulated and --

10 DR. HARRISON: A flat file is not
11 relational, though, right?

12 DR. CAMACHO: No, but it doesn't make a
13 difference. If I have two flat files and they have
14 something -- a column in common, that's it. It can be
15 sucked up into anything. It's just a matter of --

16 DR. HARRISON: Well, I'm raising it as--

17 DR. SELVIN: Archiving the data isn't near
18 the problem as it is the biological material. It's
19 trivial to put the data away someplace where people can
20 get at it. That's a small issue.

21 DR. CAMACHO: That shouldn't be a problem,
22 that's right.

1 DR. HARRISON: Well, the data is already in
2 a format that you can't get at.

3 DR. CAMACHO: So it can be changed, it can
4 be fixed.

5 DR. SELVIN: Maybe you can't make it last
6 for a hundred years, but you can surely make it last
7 the next ten years.

8 DR. HARRISON: How much people use things
9 depends on its accessibility.

10 DR. SELVIN: Right. I'm just saying that
11 the data is not as -- is a small problem both cost-wise
12 and effort-wise compared to keeping the biological
13 samples alive and frozen and maintained and some
14 knowledgeable --.

15 DR. HARRISON: We've already got the
16 biological samples in the proper storage. And if we
17 produce any other biological samples, they'll be put in
18 the proper storage.

19 DR. CAMACHO: Well, let's have a
20 subcommittee on that.

21 DR. SELVIN: Well, I know little about this,
22 but just having it in storage doesn't really do it,

1 because you have to have people who know what's in
2 storage and how it's accessible and --

3 DR. CAMACHO: It's the cataloging; the whole
4 nine yards on that.

5 DR. HARRISON: Well, all right. I don't
6 care whether we're talking about file formats or
7 catalogs; but even for a catalog --

8 DR. CAMACHO: Well, that's what we said
9 we're going to do here, though. A subcommittee or
10 advisory committee will work with a study team, a
11 designee or whatever to develop such an initial
12 estimate and even an RFP, if possible. For the
13 endeavor; we need an RFP, we need a study done on it,
14 but let's get the basic parameters.

15 DR. HARRISON: My point is that there is
16 money within this contract to carry out some of this.

17 DR. CAMACHO: Well, some of it should be
18 carried out, then.

19 DR. HARRISON: And I'm suggesting that that
20 should be a consideration.

21 DR. CAMACHO: That was a budget, right?
22 What's the budget bottom line here? What have you got,

1 every dime spent all the way to 2006?

2 DR. MINER: No.

3 DR. CAMACHO: So there's a big chunk hanging
4 around?

5 DR. MINER: No. Oh, no, no, no. We have
6 talked with our money people at Air Force and said "We
7 are going to need some shutdown money, presumably to
8 help archive" -- and they have agreed to do that. What
9 they are very much against, the Air Force is not in the
10 health study business, and they hardly have enough
11 money to keep planes flying right now; and I think that
12 will only get worse.

13 So we get a lot of angry generals that say
14 "Well, why is part of my budget going to ra-ra-ra" type
15 of thing. So there's that attitude every time we go
16 for money. Now Congress says "Okay, fine, but you're
17 going to do this."

18 So in some of your achiving things, keep
19 that in mind, that the Air Force higher-up, their
20 mission is fire and steel on target. It's not doing
21 health studies.

22 DR. CAMACHO: What do you think, in just a

1 ballpark, what we could weasel out of the government?

2 Just for looking at this issue, because I
3 think we can get money elsewhere. I just think it can
4 be done.

5 DR. MINER: And that's great.

6 DR. CAMACHO: Maybe I'm wrong, but I think
7 it can be done with a good game plan.

8 DR. MINER: I can't give you right now what
9 I think it would cost to archive.

10 DR. CAMACHO: Just to put this system --
11 let's put it to you, we're taking up time. Let's put
12 the committee together, if it's the three of us, Steve,
13 myself --

14 DR. HARRISON: Wait a minute, who's chairing
15 this thing?

16 DR. CAMACHO: Well, I was making my
17 suggestion. I know the database end of this stuff, and
18 he's saying he'll take a lead on some sample stuff, and
19 we'll put a little thing together for December.

20 DR. HARRISON: Are you going to be
21 responsible for the sample stuff?

22 DR. CAMACHO: If we don't do anything, then

1 we don't have a ballpark. It doesn't make a difference
2 if we're wrong.

3 DR. HARRISON: I'm not proposing --.

4 Hold on, we're getting a little disorganized
5 here. I'm not proposing that we do nothing. I'm just
6 saying that I haven't participated in this committee
7 for what seems like forever without having some
8 interest in seeing what happens to it. So I'd like to
9 stay involved in some way.

10 COL. MARDEN: I've got a full colonel lab
11 officer that can probably help us with the archiving of
12 the biologicals.

13 DR. MINER: The other thing, I think you
14 were addressing more ease of use in a relational
15 database type of activity versus all of our flat files
16 sitting out there where an individual kind of has to
17 know flat files, or look up in a data dictionary and so
18 forth.

19 We've kicked this around a lot and have --.

20 DR. STILLIS: Can I ask a question; when you
21 say flat files --

22 DR. CAMACHO: Just think of everything you'd

1 call them --

2 DR. HARRISON: Think of a spreadsheet with
3 all this information on it, and think of another
4 spreadsheet with all information on it from another
5 guy, and think about how you're going to figure out how
6 to connect all those together. There's no easy way.

7 The way I see the progression of this, Paul,
8 and I don't want to -- I'm not trying to stifle
9 anything; but the way I see the progression of this,
10 when I first came on the committee, the Air Force did
11 the study, accumulated all this information, and stuck
12 it in the National Technical-something archives or
13 whatever, where no one knew where the hell it was, no
14 one used it, no one did anything.

15 In spite of what Joel says, the only things
16 that got published were things that had to do with the
17 technical aspects of doing statistics; and then they
18 started doing the publication on the biological
19 aspects, you know? Which are the things that attract
20 interest.

21 And then lastly now we have where the
22 material is being put on the web site and can be

1 accessed, publicly accessed. So I'm seeing a
2 progression from a study that was really being done
3 sort of yn-yn-yn in itself, on out to being more and
4 more accessible to the scientific community.

5 My question is, what are the last pieces
6 that could be put on, so that someone could say "Gee, I
7 never heard of this thing before, I'm wondering if it's
8 got any relevance to my interest," and be able to get
9 into it without being so dedicated that they're willing
10 to spend the next, you know, two weeks figuring out how
11 things are.

12 DR. CAMACHO: That's what --

13 DR. HARRISON: I'm interested in making it
14 more accessible.

15 DR. CAMACHO: Let's put a couple of ideas on
16 the table and let them grow. It's not like we're going
17 to come to a decision immediately.

18 DR. HARRISON: I understand.

19 DR. MINER: We do have file descriptions of
20 the flat files out there with all the datasets. You
21 can go to the web site and say Okay, the file
22 neoplasia/85-dat, and here's what's in it and it

1 describes every column and row, what's there.

2 DR. HARRISON: So what's happening with the
3 raw data that's on these older formats? Are they
4 already in the process of being transferred so that's
5 what Joel is saying, by the end of the year all of
6 that's going to be on the web site?

7 DR. MINER: Yes.

8 LTC BURNHAM: Right.

9 DR. HARRISON: So all that's already being
10 done.

11 LTC BURNHAM: Right.

12 DR. HARRISON: All right. So it's the sense
13 of this committee that we have a subcommittee to work
14 on this?

15 That's fair enough.

16 And Paul, you want to work on it.

17 DR. CAMACHO: I know I do.

18 DR. STILLS: I probably --

19 DR. HARRISON: You say you don't?

20 DR. CAMACHO: Oh, I definitely do.

21 DR. STILLS: I think I would probably want

22 to work more on the health issues than the format and -

1 -

2 DR. HARRISON: Mike?

3 DR. GOUGH: I don't have any expertise in
4 this, really.

5 DR. HARRISON: But you're our legacy --
6 legacy.

7 (Laughter)

8 DR. GOUGH: At last, I'm a legacy. This
9 means I get special privileges.

10 DR. HARRISON: Yes, you do.

11 [Simultaneous discussion]

12 DR. HARRISON: I think that we've got a
13 social scientist, a --

14 DR. GOUGH: I think Steve.

15 DR. HARRISON: You think rather?

16 Okay, then Steve.

17 DR. GOUGH: There could be three of us. Is
18 that all right?

19 DR. HARRISON: Well, and then it will be
20 four of us; because I want to do the biology part.

21 DR. GOUGH: Oh, all right.

22 DR. HARRISON: That will be four of us,

1 that's fine.

2 Yes, Jay?

3 DR. MINER: Your question was, all of the
4 raw data going to be out there on the web? The answer
5 is no, only the data that were used in the analyses.

6 Now we have, and Joel can describe what we
7 have that we're not using the analyses; that is not out
8 there, and --

9 DR. CAMACHO: No, but it should be
10 preserved.

11 DR. MINER: But it should be preserved.

12 DR. CAMACHO: Because down the road -- my
13 concern is down-the-road concerns. We don't know what
14 --

15 DR. HARRISON: I'm using the term preserved
16 and accessible; I don't mean by that freely accessible,
17 but I mean it shouldn't be on something where you have
18 to go to a museum to find the drive to read the floppy
19 off of.

20 DR. STOTO: I think an issue to be
21 considered is, to what degree, what are the conditions
22 under which people can get access to the other data.

1 DR. HARRISON: That's another issue.

2 Yes, Joel?

3 DR. MICHALEK: I need to give you some more
4 information, because you're heading down a path there
5 that -- I don't think you know where you're headed, and
6 that's not your fault. This is because you don't
7 understand the full level of complexity.

8 We have perhaps thousands of datasets, we
9 have thousands of SAS programs, we have hundreds and
10 thousands of Fortran programs. We have datasets that
11 are what we call raw datasets. They are delivered by
12 NORC or SAIC or Lou Harris.

13 Now Lou Harris is a good example. We get a
14 raw questionnaire file from baseline. Now if you were
15 to go into that building and download that file and
16 bring it up on your machine and start running with that
17 file, you have made a fatal error.

18 The reason being that much of that data is
19 incorrect. How do I know that? Because we've checked
20 it. And what appears in the report are, we take a
21 certain streak of that data; we take a particular
22 column, and we check every number against the hard

1 copy. Then we produce an analysis dataset, a pristine,
2 clean, 100 percent checked data, that's what goes in
3 the report.

4 But the raw data sits there, and it's wrong.
5 I know it's wrong, Lydia knows it's wrong, that
6 particular version of that dataset created on such-and-
7 such a day is wrong, and we know it. There are
8 hundreds of such examples in this study. It is a huge
9 collection of modified -- original, edited, modified,
10 extracted, merged and massaged data that I know where
11 everything is. So does Lydia.

12 In other words, when you say we're going to
13 release everything to the public, you are creating a
14 mistake.

15 DR. HARRISON: I'm not saying release.

16 DR. MICHALEK: I know that.

17 DR. HARRISON: We're talking about --

18 DR. MICHALEK: I want to introduce this
19 level of complications so that you understand that what
20 we release to the public is what we know is absolutely
21 correct.

22 DR. HARRISON: Joel, what I'm saying is that

1 we need to consider if there isn't a way that all of
2 those datasets are maintained, and that there is some
3 sort of a flag that says that that dataset is unchecked
4 and probably wrong.

5 And I'm not saying that that dataset needs
6 to be available; I'm not saying that that dataset needs
7 to be accessible by anyone on the outside at this
8 point. But if some time, five or ten years from now, a
9 decision is made that that particular dataset needs to
10 be evaluated again, I would like for it to be possible
11 for that to be done. And I would like for there to be
12 sufficient information about that dataset that a naive
13 person would have a chance of knowing what the quality
14 of the dataset was and what its position was in the
15 progression from raw data to a report.

16 DR. MICHALEK: You have just laid out a task
17 that if it were pursued would put a serious dent in our
18 ability to write research papers.

19 DR. STOTO: Can I suggest an alternative?

20 DR. HARRISON: Of course.

21 DR. STOTO: I mean, the alternative may be
22 that in 2006, they, after having cleaned all the data,

1 they dump all these raw data files and not bother about
2 preserving them; but just make sure they preserve
3 something more than --

4 DR. CAMACHO: These are interesting ideas,
5 but why come to this conclusion today? It's a whole
6 study in itself.

7 DR. HARRISON: Well, this is what we're
8 supposed to do.

9 DR. STOTO: Yes. But I'm just saying that
10 preserving everything is not the only option, and
11 probably isn't the best option.

12 DR. MICHALEK: That is -- anxiety.

13 DR. CAMACHO: Yes, but nobody's making a
14 decision here.

15 DR. MICHALEK: No, we're just talking.

16 DR. CAMACHO: We're just talking; let's kick
17 the ball around and come up with something in December,
18 listen to it, come up with a better plan for March.
19 Then there's 2001, there's 2002, 2003. By the time we
20 roll down the road, we ought to know what we're doing
21 by 2004. In the meantime, we're trying to get the
22 money.

1 DR. HARRISON: We've been rolling for almost
2 20 years. We still don't know what we're doing.

3 DR. MICHALEK: Let me give you another
4 example.

5 DR. HARRISON: Now wait a minute, now.
6 You're planning to write papers after 2006.

7 DR. MICHALEK: That's another point, by the
8 way. We are rapidly reaching a point -- you know it
9 takes up to five years to get a paper published. It
10 took us five years to get our chloracne paper
11 published. How much time do we have left on the study?
12 Five years.

13 In two years, when I submit an article to a
14 journal, it's very likely I won't be around; there will
15 be no staff, there will be no study to receive referee
16 reports. So we're reaching a point here where we're
17 going to have to change our minds about what we're
18 going to publish in this study or how we're going to
19 publish it.

20 DR. HARRISON: Well, that's possible.

21 DR. MICHALEK: It's another hot topic for
22 discussion, and we're going to reach that point in

1 about two years.

2 DR. HARRISON: You know, one of the things
3 you might consider is whether you should will this
4 dataset to the Scripps Institute.

5 DR. MICHALEK: The Scripps Institute is not
6 such a firm rock in the United States. That place is
7 on the edge of bankruptcy quite a lot.

8 DR. HARRISON: Everyplace in the United
9 States is on the edge of bankruptcy.

10 COL MARDEN: Will it to the Institute of
11 Medicine.

12 DR. MICHALEK: But the point is that if you
13 willed it to somebody that had an interest in it, then
14 what you'd see would be just those papers that you got
15 started and someone else was coauthor on would then, in
16 the natural course, continue to be published and so on.

17 DR. MICHALEK: Now there's a problem, you
18 see. If you submit a paper say a year from now, and it
19 goes to a journal, and we don't get a referee report
20 back until June of 2000, we don't get good referee
21 reports back until 2006 when we're shutting down.

22 We're going to shut down. Now how is that

1 other coauthor, say Jim Albers, University of Michigan,
2 what's he going to do? He has no access to anything,
3 he has no patient folders he can look at, he has no one
4 he can talk to--

5 COL. MARDEN: That's back to the archive
6 issue.

7 DR. HARRISON: Well, that depends on whether
8 we are successful with the effort that we've agreed we
9 want to undertake to --

10 DR. MICHALEK: Let me just say, what you
11 have to figure out a way of doing is capture what's in
12 my head and what's in lydia's head, and Billy Jackson
13 and Bill Grubbs. Somehow --

14 DR. HARRISON: When I was in Arkansas, up in
15 Fort Smith where the Campbell Soup factory is, they had
16 one guy there who was the only guy who knew how to make
17 those kettles work. And one day they sat down and
18 started asking him questions about what he did when
19 different things happened.

20 And they constructed a set of if-then-else
21 rules, and then they fired his ass.

22 (Laughter)

1 DR. MICHALEK: It's not quite that simple.
2 I wish it was that simple.

3 DR. STOTO: Joel, presumably you and the
4 other coworkers will retire in 2006, but hopefully
5 you're going to continue living.

6 DR. MICHALEK: I'll move on to another job.

7 DR. STOTO: Move on to another job, and you
8 might move on to a job at a university, and the
9 university might be an appropriate repository for this
10 --

11 DR. CAMACHO: There's 50 states. Every
12 state -- if you want to put it --

13 COL. MARDEN: There are ethics
14 considerations here.

15 DR. CAMACHO: If you want to put it in state
16 universities.

17 DR. STOTO: I know, I'm sensitive to that,
18 and I'm wondering if there's anything we could do
19 because -- I mean, Joel is a national resource as well,
20 believe it or not.

21 DR. MICHALEK: And Lydia.

22 COL. MARDEN: So we're going to mummify you

1 when you die.

2 DR. MICHALEK: We need to make my cells
3 immortal.

4 DR. STOTO: But I think it's worth
5 recognizing that, and seeing what can be done about
6 that.

7 COL. MARDEN: That's an interesting point.

8 DR. HARRISON: So our action plan is that we
9 have a subcommittee of Paul, Mike, Steve and myself who
10 are going to work on this issue. Paul is going to
11 chair the subcommittee.

12 We have action items for the next meeting
13 that we've already discussed and are already a part of
14 the minutes.

15 You've got your hand raised. I was going to
16 ask, is there anything else that we need to discuss
17 before we take a break and then have our public
18 statement?

19 DR. CAMACHO: This is just a response to
20 your -- the 12th we want to come up with some
21 parameters of a ballpark that we're going to modify
22 over the next months, several months, years, couple of

1 years, and have a whole plan together.

2 You had said archives, and you mentioned the
3 university. Every state in the Union has a state
4 university, and every state in the union had troops go
5 to the war. Every state in the Union has an obligation
6 to have their universities take a piece of the action,
7 regardless of whether the cyclops has a piece of the
8 action, to maintain this archive, put it that way.
9 There's a lot of alternatives. And that's our
10 committee's job, is to look out throughout these
11 alternatives.

12 DR. HARRISON: What we want to do is, we
13 want to make sure that the plan is solid, and not
14 speculative.

15 DR. CAMACHO: It's not going to be developed
16 in six months; it's going to take a year or two.

17 DR. HARRISON: Before we take the break, I
18 proposed yesterday that we meet on December 7 and 8th.

19

20 Is there some consensus that those are
21 reasonable dates?

22 DR. GOUGH: Well, I have prior engagement on

1 the 8th.

2 DR. SELVIN: And it's from 11 to 2.

3 DR. GOUGH: So if you have a really long
4 lunch -- just work around me.

5 DR. HARRISON: Steve?

6 DR. SELVIN: The first two weeks in December
7 are impossible. I have two large classes with final
8 examinations.

9 DR. HARRISON: And that's the same problem
10 you have, right?

11 DR. CAMACHO: Well, no; I can get proctors
12 to give out the exam.

13 DR. HARRISON: So those are possible?

14 DR. CAMACHO: The dates are possible.

15 DR. HARRISON: My experience is that the
16 committee never meets as a whole.

17 Is it possible that, during those days, that
18 you could participate briefly by phone?

19 DR. STILLS: Something like that.

20 DR. HARRISON: Okay, let's see.

21 We don't have -- who's missing?

22 MR. COENE: We don't have Landrigen, Favata,

1 and Osay.

2 DR. HARRISON: So that's a significant
3 number of people.

4 You're okay, Mike?

5 DR. STOTO: I'm okay. I'm pretty much okay
6 the next two weeks after that, too.

7 DR. HARRISON: And Bob, you're not okay,
8 right?

9 DR. SILLS: The first two weeks -- the first
10 week I'm going to be in a meeting --

11 DR. HARRISON: You're chairing a meeting
12 yourself.

13 DR. SILLS: I chair a meeting, and then the
14 next week I'm in Toronto.

15 MS. JEWELL: How about the last week in
16 November?

17 MR. COENE: There's not much room for the
18 subcommittee to work, although we could postpone that
19 discussion if we just --

20 DR. HARRISON: Barbara's just brought up,
21 what about the last week in November?

22 DR. HARRISON: Because Thanksgiving is on

1 the 23rd.

2 [Simultaneous discussion]

3 DR. HARRISON: So that's not bad for you?

4 DR. SILLS: That should be fine with me.

5 DR. HARRISON: That would be fine with you.

6 That's the week before your exams; that would be --

7 DR. CAMACHO: Fine with me. It's a Thursday

8 and Friday.

9 DR. HARRISON: That would be fine with you.

10 That's still bad with you?

11 DR. SELVIN: I can't take any more time away

12 from class.

13 DR. HARRISON: I understand.

14 So that sounds like that's even a better

15 time, would be November 30th and December 1st. So if

16 you all will hold those dates.

17 MR. COENE: And we'll try to clear them on

18 Monday.

19 DR. HARRISON: We'll check with the other

20 three members of the committee. I suspect that will be

21 okay with you all? You want it as soon as we can

22 generate it?

1 MR. COENE: Hold it a second. That really
2 crunches the time we have to get those outside
3 reviewers reviewing those six proposals, seven
4 proposals or whatever the number.

5 DR. HARRISON: Yes, it does, but we'll just
6 have to do it the best we can.

7 DR. MICHALEK: Well, you know, that deadline
8 isn't so important, either. I mean the deadline on
9 those could be pushed up to March of next year.

10 DR. HARRISON: And we just work on the
11 statement of work for this time?

12 DR. MICHALEK: Yes. Let's plan on that.
13 You don't need to talk about those proposals until
14 March of next year.

15 DR. HARRISON: Okay, now --

16 MR. COENE: That's fine. That would --
17 because we'll be hustling to put this committee back
18 together.

19 LTC BURNHAM: You're going to be getting
20 into some fairly detailed stuff on that statement of
21 work. Is two days going to be enough?

22 DR. CAMACHO: Can we go to Saturday, too?

1 DR. HARRISON: No, no. Something that can't
2 be done in a day and a half isn't worth doing.

3 Now right now we don't have a particular
4 date or set of dates or proposed set of dates for the
5 March meeting. Does anyone have any suggestions?

6 DR. GOUGH: Do you mind if I go get my
7 calendar, which I've forgotten?

8 DR. HARRISON: No. Not at all.

9 In fact, why don't we do this --

10 MR. COENE: Pick that up after the break.

11 DR. HARRISON: We're tentatively okay for
12 December, and after the break we're going to try to do
13 March.

14 DR. GOUGH: Can I ask one technical
15 question, about the results?

16 Yesterday you said that this increase in
17 carotid arteries increases with dioxin body burden in
18 the comparisons as well as in the Ranch Hands. Isn't
19 that true of diabetes as well?

20 DR. MICHALEK: Yes.

21 DR. GOUGH: Isn't that a puzzling -- it
22 sounds like there's a marker here that we don't

1 understand --

2 VOICE: What is the chicken, what is the
3 egg?

4 DR. GOUGH: Yes. Are there other examples
5 of that where there's --?

6 DR. MICHALEK: We haven't looked in the
7 comparison group for those kinds of trends, in every
8 variable.

9 DR. GOUGH: Yes, I think it would be silly
10 to do it everywhere, but that's just such a puzzle.

11 DR. MICHALEK: We have not looked
12 extensively, we've only looked at heart disease and
13 diabetes.

14 LTC BURNHAM: That makes sense, though,
15 because the comparison group does have levels. But in
16 many instances, in other studies, your comparison group
17 doesn't have any exposure; but in this one they all do
18 have.

19 DR. GOUGH: Yes, but ten -- I mean, all of
20 us are running around with 5 to 10 ppt. And if the
21 slopes are the same, it's as though, if dioxin were the
22 causative or associative agent and the slopes are the

1 same, it's as though if you're exposed to just a little
2 bit, the little bit's more potent than if you're
3 exposed to a lot.

4 That doesn't make any sense, but it's a real
5 puzzle to me as to why --

6 DR. MICHALEK: But what happens in the Ranch
7 Hand group is that individuals with higher levels,
8 above background, increases the risk even further. So
9 you have an increased risk --

10 DR. GOUGH: Okay, I'm sorry. I didn't
11 understand.

12 In the comparisons let's arbitrarily say it
13 goes up to 10, and in the Ranch Hands it goes up to
14 600. So at 10, in the two groups --

15 DR. MICHALEK: The two groups are roughly
16 parallel up to 10.

17 DR. GOUGH: Up to 10 --

18 DR. MICHALEK: And then beyond 10, the Ranch
19 Hand risk keeps increasing with increased dioxin.
20 There were controls with beyond that.

21 DR. GOUGH: Okay. That's what I understand.

22 DR. MICHALEK: That's how the diabetes

1 works.

2 DR. HARRISON: Why don't we do this.
3 Barbara has stuff for everybody to sign. Why don't we
4 take a break and let's --

5 DR. STOTO: Can we ask whether Jack has
6 stuff to say, or?

7 MS. JEWELL: That's after.

8 MR. COENE: At 11 o'clock he's on.

9 JACK: I've got to write my speech here.

10 (Laughter)

11 DR. STOTO: How much do you think you're
12 going to have?

13 MAJ SPEY: Two or three minutes.

14 DR. STOTO: Why don't we just do it now?

15 DR. HARRISON: No, let's take a break first.

16

17 [Recess.]

18 DR. HARRISON: To get back to the issues of
19 meeting times, we're already honed in on November 30th
20 and December 1st. And now the March dates, does anyone

21 --

22 DR. STOTO: I think that the very last, end

1 of March is difficult for me.

2 DR. HARRISON: The very last what?

3 DR. STOTO: 29th and 30th.

4 DR. HARRISON: We want to do somewhere in
5 the first 2 weeks of March.

6 DR. STOTO: Then I'm okay.

7 DR. HARRISON: It looks, according to my
8 calendar, that March 1st and 2nd are again a Thursday -
9 Friday time period, and obviously then the 8th and 9th
10 are the Thursday - Friday of the second week.

11 I mean, there being no conflict with either
12 of those dates, and March 1st isn't -- that's not
13 Mother's Day, that's in May.

14 It's not Air Force Appreciation Day or
15 anything like that.

16 (Laughter)

17 MS. JEWELL: And where are we having this
18 meeting?

19 DR. HARRISON: Well, that's something else
20 to discuss; but I think that considering the financial
21 constraints and considering that the Air Force has all
22 the money in the world, that it would be cheaper for

1 them to fly to where we're closer than for us to fly to
2 them. So we might want to do this in D.C.

3 DR. STOTO: Where's the December meeting?

4 MS. JEWELL: D.C.

5 DR. HARRISON: That's my suggestion; I'm
6 just making those observations. What Ron is saying is
7 that it costs about \$20,000 a meeting, and if we want
8 to try and have three more meetings in this fiscal
9 year, then --

10 DR. STOTO: I'm just asking, I'm not
11 complaining. Or even offering an opinion.

12 DR. HARRISON: Okay.

13 DR. GOUGH: I want to go to California
14 again.

15 DR. HARRISON: That's the next cycle,
16 though.

17 MS. JEWELL: The Ranch Handers are out
18 there.

19 DR. HARRISON: So that's 2002, right?

20 DR. GOUGH: We could take Jack with us.

21 DR. HARRISON: So if no one has any real
22 objections, can I get you for the next week to hold

1 both of those Thursdays-Fridays, 1st, 2nd, 8th, 9th,
2 and Barbara and Ron can contact the other members and
3 see if one gives us more yield than at the other, and
4 we'll pick whichever one gives us the highest yield.

5 DR. GOUGH: You're talking about meeting
6 Thursday morning.

7 DR. HARRISON: Yes.

8 DR. GOUGH: So it's really Wednesday,
9 Thursday.

10 DR. HARRISON: No, what I'm talking about is

11 --

12 DR. CAMACHO: He's coming from California --

13 DR. HARRISON: What I'm talking about is,
14 you arrive Wednesday --

15 [Simultaneous discussion]

16 DR. HARRISON: So that being done -- where's
17 Jack?

18 MS. JEWELL: Where's our public?

19 DR. HARRISON: Because if we don't have any
20 -- yes?

21 DR. GOUGH: Well, this is sort of
22 administrative, and it's talking to Ron at dinner last

1 night, but evidently the Secretary's office --

2 COL. MARDEN: The public and I were talking.

3 DR. GOUGH: -- the Secretary's office did not
4 make any real effort to inform veterans organizations
5 that we were having this meeting.

6 MR. COENE: That's -- we were able to
7 determine.

8 DR. GOUGH: Well, should we, should the
9 committee send a letter to the Secretary about that? I
10 mean, because we're going to be the ones -- the
11 Congress says we're supposed to make every effort to do
12 outreach, and we've failed.

13 MR. COENE: I don't -- it rains on me in the
14 end, but it doesn't -- somebody needs to --

15 DR. CAMACHO: See -- I'm sorry.

16 DR. GOUGH: One of the criticisms has been,
17 or one of the -- this committee's got to make more of
18 an outreach to the veterans community. And because of
19 all the lateness and slowness in getting the committee
20 appointed, that wasn't done, but that's supposed to be
21 done through the Secretary's office, of HHS.

22 And they didn't do anything, or the office

1 didn't do anything. So I think that we should, as a
2 committee, send a letter to the Secretary and say that
3 we would like to have more veterans participation and
4 her cooperation in getting the information out.

5 DR. CAMACHO: What do you mean by
6 participation.

7 DR. GOUGH: They actually come and testify.

8 COL. MARDEN: Well, here's Jack.

9 DR. GOUGH: We have an hour for the public.
10 Jack is here; oftentimes there's no one here.

11 MS. JEWELL: And he wasn't here because he
12 was notified by the Office of the Secretary. Is that
13 correct?

14 JACK: No, ma'am.

15 DR. STOTO: At the last meeting, the ones
16 who did come found out about it at the last moment and
17 gave us a lot of trouble for it.

18 MS. JEWELL: Well, no, actually the last two
19 meetings, the Office of the Secretary did notify them
20 and we had the first good turnout we've ever had from
21 veterans groups.

22 DR. HARRISON: So why don't we do--

1 DR. GOUGH: I'll be happy to write the
2 letter, and send it to Bob.

3 DR. HARRISON: Well, the other question that
4 you haven't asked is, What is the mechanism for -- I
5 mean, we have to tell the Office of the Secretary when
6 we are going to meet. And then the Office of the
7 Secretary has to provide the notification.

8 MS. JEWELL: Yes.

9 MR. COENE: And that's what we do.

10 MS. JEWELL: Yes, and we did all that. And
11 we made telephone calls and we e-mailed the second
12 time. The person that was taking care of it retired,
13 and they've not obviously named anyone else.

14 DR. HARRISON: Okay, Mike, we're going to be
15 a letter-generating committee here, that's good. So
16 why don't you generate a letter, same format as what
17 I'm doing, you generate the letter, you circulate it
18 through e-mail, you're writing a letter on behalf of
19 the committee, so there should be a reasonable
20 consensus about its content. And when that is reached,
21 then the letter will go out and --

22 DR. GOUGH: And it should be quick, because

1 we've got a meeting in seven weeks.

2 DR. HARRISON: Yes, and in that letter it
3 should contain -- obviously it has to contain the next
4 meeting dates.

5 DR. GOUGH: Yes.

6 COL. MARDEN: You could do the time-honored
7 military thing of, "Dear Madam Secretary, unless we
8 hear different from you, we'll announce our meetings to
9 the veterans organizations."

10 DR. GOUGH: You don't want to take that
11 responsibility.

12 DR. HARRISON: I think -- the other thing
13 that I would do, Joel, whoever your -- is this
14 acceptable with your webmeister? If you look on your
15 web page, in the actual HTML text, it should have
16 somewhere in the key word section there, it should have
17 Ranch Hand -- you know, it should have a number of
18 keywords that search engines will use to categorize
19 that page.

20 Can you include on your web page the next
21 Ranch Hand Advisory Committee meeting date and the
22 tentative time period for the March meeting, even? You

1 know, you can say the March meeting will be held within
2 the first two weeks of March, and just have that on
3 your web page so it will come up on search engines.

4 DR. MICHALEK: The answer is yes, of course.

5 DR. STOTO: Is there some single veterans
6 organization that we can work with to spread the word
7 to others?

8 DR. CAMACHO: You're going to get into
9 trouble.

10 MR. COENE: There's a list of 12 that we're
11 aware of that have been contacted and were contacted
12 for members.

13 DR. STOTO: Can you let them know about
14 this, too? In addition to the Secretary.

15 MR. COENE: The point is yes, we can do all
16 of this. The issue is to keep this in an elevated and
17 within at least some radar screen within the Office of
18 the Secretary. If we just --

19 DR. STOTO: Well, I think you should do it,
20 and I don't think you should do --

21 MR. COENE: Yes, that's what I -- that's my
22 -- if we just go along and just ignore it --

1 DR. CAMACHO: But we can go around them,
2 like midnight requisition; but it doesn't solve the
3 problem of staying on the Secretary's radar screen and
4 making sure that this project is in the infrastructure
5 of this agency.

6 DR. HARRISON: That's right.

7 MR. COENE: Yes. That letter will be
8 another reminder.

9 DR. CAMACHO: And that takes some clout, and
10 we'll have to beat them over the head if we have to,
11 and have friends beat them over the head.

12 MR. COENE: Not too hard. I'm good at
13 writing letters back for the Secretary.

14 (Laughter)

15 COL. MARDEN: You mean, we should just
16 address the letter 'Dear Ron' and then you write back,
17 'Dear Bob'?

18 MR. COENE: Yes, I'm going to see it -- but
19 at least we do hit a few nerve endings as it comes up
20 and then back down again.

21 DR. CAMACHO: What's the flow of the agenda?
22 Here's my point --

1 DR. HARRISON: We're almost finished.

2 DR. CAMACHO: I know. So my task is to put
3 this letter in format for you to look at and consider;
4 is that true?

5 DR. HARRISON: What letter are you talking
6 about?

7 DR. CAMACHO: I'm talking about the diabetes
8 stuff, the archive. You are sending this letter, but
9 you told me to sketch this out or put this in writing,
10 and it will be for you to submit it?

11 DR. HARRISON: That's an insert that goes
12 into the minutes, right?

13 DR. CAMACHO: Then I don't have to worry
14 about that, it's being done.

15 DR. HARRISON: Well, you're going to give
16 what you have written to Barbara so that she can make
17 sure that --

18 DR. CAMACHO: Oh, I'm giving it to Barbara.
19 Okay.

20 DR. HARRISON: And then I'm writing a
21 letter; based on your text and based on your
22 discussions, I'm writing a letter that's going to

1 incorporate that issue and also incorporate the issue
2 of the continuity of this study past 2006.

3 DR. CAMACHO: So you're writing that letter
4 to Donna Shalala?

5 DR. HARRISON: Right.

6 DR. CAMACHO: And I'm writing the archive
7 piece to her, and you're going to pick that up -- or am
8 I cc'ing you?

9 DR. HARRISON: I'm just going to pick that
10 up. In fact, I think all you need to do is give your
11 handwritten copy to Barbara. I don't think we need to
12 generate anything else.

13 DR. STOTO: We need to go in a couple
14 minutes.

15 DR. HARRISON: So there being no other
16 business on our agenda, it's now time for the public
17 statement.

18 DR. CAMACHO: Just this point. You're
19 arguing about Ron and his replacement and the budget;
20 are you writing that letter?

21 DR. HARRISON: Those are all mine.

22 DR. CAMACHO: Okay, and then the veteran

1 public notification, what did we decide we were going
2 to do with that?

3 DR. GOUGH: I'm going to write a letter, and
4 I'll circulate it to the committee.

5 DR. CAMACHO: Okay. So here I've done my
6 duty by passing this over there.

7 DR. HARRISON: And done it well.

8 So, anybody else before the public
9 statement?

10 Let's go. Major?

11 PUBLIC COMMENT

12 MAJ SPEY: I'd just like to thank everyone
13 for the opportunity just to be here.

14 One of the things that comes to mind about
15 this study is that what has been found so far,
16 particularly concerning the diabetes finding, is that
17 it's generally stated that those in contact with
18 herbicides have an increased risk of diabetes, and
19 that's not the case.

20 We're seeing, those of us that carry a
21 relative, comparatively large volume of diabetes in our
22 blood, showing an increased risk of type II diabetes,

1 type II being, as you all know, generally controlled by
2 weight, diet, some medication possibly. We're not
3 talking insulin-dependent.

4 We're seeing some variation in body
5 chemistry which is unexplained; but that variation is
6 not showing in terms of mortality or general morbidity;
7 it's just a change in chemistry, none of which is
8 understood yet, and may never be understood as it
9 applies to causation.

10 My fear is that many, many veterans
11 unnecessarily are concerned about their health, long-
12 term health, simply because they went to Vietnam and
13 served in Vietnam. And this study compares the Ranch
14 Hand cohort and the comparison group cohort who were
15 Vietnam veterans, and it was done so out of good
16 science and it was done so intentionally so that we
17 weren't mixing apples with oranges.

18 And what we're finding is that all of the
19 hoopla that we've heard since 1975 concerning "Agent
20 Orange" has upset, in my mind and in the minds of many
21 of us, unnecessarily; and it's a very minor, I consider
22 it a very minor deviation in health of those of us who

1 have an elevation of dioxin in our blood over and above
2 somewhere around 30 parts per trillion.

3 You are looking for a needle in a haystack,
4 and there's some that will argue that the haystack
5 doesn't even exist, but that's just my own personal
6 view. But I just want to emphasize the importance of
7 this study and sticking with the protocol right through
8 to the end so that there can be no criticism of this
9 study as a result of some sort of modification towards
10 the end. It's the finest study that's ever been done
11 on the human population, bar none. It's the hallmark
12 epidemiology study that's ever been conducted by this
13 nation's scientific community, and I think that's well-
14 recognized by the scientific community. And the
15 members of Operation Ranch Hand are damn proud to be a
16 part of it.

17 Thank you very much.

18 DR. HARRISON: Thank you very much, Major.

19 Well, there being nothing else for us to
20 fiddle-faddle about, I declare this meeting adjourned.

21

22 Whereupon, at 10:43 a.m., the meeting

1 adjourned.)

2

- - -