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24th Meeting of The Secretary's  
Advisory Committee on  
Heritable Disorders in Newborns and Children

May 6, 2011

Renaissance Washington, D.C.  
Dupont Circle Hotel

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DR. HOWELL: We have a very, very busy agenda. And before we get into the agenda, I would like to make a couple of comments. And that is that yesterday, I had the privilege of introducing three new distinguished members of this committee. And I commented at that time that folks who are nominated and appointed to the committee by the Secretary have in common that they are all people of great accomplishments, so that we're accustomed to having members of this committee receive a variety of recognitions for their outstanding service.

But I wanted to point out one tremendously outstanding accomplishment that one of our members had happen very recently. And that is that the most important scientific recognition that a person can get in the United States currently is election to the National Academy of Sciences. It's a very special recognition. Very few people achieve that. And I want to congratulate Rebecca Buckley for her election to the National Academy of Sciences.

(Applause.)

DR. HOWELL: And I might --

DR. BUCKLEY: It was an honor, a very great honor.

DR. HOWELL: It was a great honor. And, of course, that's highly irrelevant to our discussion later in the day because those

1 extraordinary accomplishments centered around immune deficiencies that  
2 will be a center of our discussion later in the morning.

3 And so, Becky, congratulations. Being a pediatrician, I'm  
4 confident that your accomplishments all go back to the fact that you got a  
5 very good start in life; right?

6 (Laughter.)

7 DR. BUCKLEY: Dr. Howell (inaudible) were house officers  
8 together -- taught me everything that I know.

9 (Laughter.)

10 DR. HOWELL: Yesterday, we had an opportunity to have  
11 three subcommittees meet. And we're going to start off the morning by  
12 having reports of those. And we're going to start off with the  
13 Subcommittee on Laboratory Standards and Procedures, Jerry Vockley.

14 DR. VOCKLEY: Before I start, relative to my presentation or  
15 the session yesterday, in my quest to build bridges, I inadvertently crossed  
16 the FDA inappropriately with the NIH and introduced Anne Pariser as  
17 Anne Parisi.

18 So, Melissa and Anne, I don't think you're here. I'm sorry.

19 DR. PARISI: It's not the first time.

20 DR. VOCKLEY: Yeah, well. The Laboratory Standards and  
21 Procedures Subcommittee -- I have to keep looking at the slide because I

1 never remember the name -- has the following members, including our  
2 committee members, organizational reps. and some very active additional  
3 members. On the committee for the first time this meeting was Fred  
4 Lorey, who, of course, also just joined the larger committee.

5           We had some very interesting presentations and requests  
6 for some additional assistance from the subcommittee. The agenda here -  
7 - we heard from the Massachusetts program on their attempts to use  
8 additional, essentially -- I'll call it having fun with math, refining MS:MS  
9 interpretation. Then Steve Dobrowolski from the Utah group giving us an  
10 update on some of the work that they're doing on spinal muscular atrophy  
11 screening. Our good friend, Jelili from APHL, discussing an ongoing -- no,  
12 I'm sorry. This one is a new effort to build some definitions for quality  
13 measures going forward for database capture.

14           And then, from the National Library of Medicine, this is the  
15 ongoing effort looking at ways of better defining the language that is used  
16 to exchange information. In this case, in particular, we're talking about the  
17 language used for reporting newborn screening.

18           So in regards to the MS:MS project, this is funded -- from  
19 Massachusetts. This is funded through HRSA. And so, we were  
20 delighted to have a report from them on the project. And the goal of this  
21 project was both to improve the predictive ability of the data that comes

1 out of newborn screening and as a result of that, be able to better  
2 communicate risks related to it. So instead of saying that your C14:1 is  
3 high, using VLCAD as an example, they presented data, which, as I said,  
4 this is kind of a fun with math -- looking in a more rigorous way at all of the  
5 metabolites and trying to define other consistent patterns that, in and of  
6 themselves, were not as specific as the C14:1 is to VLCAD, but in  
7 combination with C14:1, makes a difference.

8           So, for example, there are a couple of calculations that  
9 involved taking, not just ratios of two numbers, but adding a couple  
10 together, multiplying by something else and dividing by something else.  
11 So it ended up being -- the ratios that they -- or the metrics that they  
12 identified looked quite promising. And, for example, in VLCAD where they  
13 had a handful of known true positives and some that had not been  
14 substantiated and were felt to be, either non-specific or, perhaps even  
15 carriers. And they have really good discrimination in those two groups.

16           So they will be continuing to work on that. And they've  
17 expanded their project now to pick up the state labs from New York,  
18 Wisconsin and Connecticut. That choice was made because they're  
19 looking at two programs that use derivatized samples and two that use  
20 underivatized samples for their screening purposes.

21           So I think -- and this is a little analogous to what the region

1 four has done with some of their worksheets. And it really is designed to  
2 pull more information out of the testing that's already been done, as  
3 opposed to immediately going to, say, a second tier test or follow-up.

4           From Steve Dobrowolski, we had a report on molecular  
5 screening for spinal muscular atrophy. And this is an NICHD-funded effort  
6 that is designed to really try to develop a better screening for this disorder.  
7 For those of you not familiar with it, it's a complicated locus. There is the  
8 SMN1 and the SMN2 genes. They can be present in multivariate. It's a  
9 tandem duplication. They can be present in multiple configurations. And  
10 it's SMN1 deletions that are pathologic, but SMN2 status that is predictive  
11 of severity.

12           And so, Steve showed a very nice data on a multiplex PCR-  
13 based DNA melting technique to look, not only identify the SMN1 status,  
14 but in the same screening reaction, had the ability to define the SMN2  
15 status. And then, just for fun, as he puts it, they threw in TRECs. So they  
16 had a nice -- for SCID. So they had a nice multiplex assay that still had  
17 room to pick up maybe one or two other disorders that he was considering  
18 adding to it. So quite a nice, I think, advancement going forward. And  
19 we'll see if this falls out to be the best screening technique. They'll be  
20 comparing it with some others that are on the horizon.

21           We end up doing a lot of IT overlap when we have an IT

1 group or sub-group or whatever we call it that works outside the -- or as  
2 part of this committee. We end up overlapping quite a bit with some of  
3 what they do. And in this case, the APHL has an ongoing interest and  
4 effort in identifying the key quality measures that are followed by state  
5 screening programs. And so, they have been asked by -- and I forget who  
6 now. Sorry -- to develop essentially an expanded or an edited group of  
7 quality measures to capture laboratory systems for long-term follow-up.  
8 They've already been working on the immediate needs of newborn  
9 screening and short-term follow-up. And now they're going to try to put  
10 something together for a longer-term follow-up. This was a very, very  
11 short timeline. They've, sort of, just got this request in the last month or  
12 two. And they've been asked to have a report ready by July. And so, that  
13 will be a quick turnaround. It does involve the National Library of Medicine  
14 and overlaps, to some extent, then, a little bit with the final presentation  
15 that we had.

16           Coming to that final presentation, then, we heard of the  
17 ongoing efforts to update the LOINC language, reporting language panel  
18 relative to newborn screening. As an example -- or a report, we had heard  
19 last time about the efforts to develop new language to report out on  
20 hemoglobin, which is a fairly complicated issue because of all of the  
21 different variants and the way the labs capture the data. And so, they

1 showed us the new language that will be used -- or that they propose to  
2 use for that.

3                   But we spent much of the session focusing on, really, the  
4 questions and answers that they should capture relative to newborn  
5 screening interpretation going forward. And as a specific request -- and  
6 I'm going to bring this to the full committee -- they have asked that our  
7 subcommittee help them with developing the structure and standard  
8 names for new codes for new conditions and tests going forward. And  
9 that because of the overlap with what is a screening test and then  
10 ultimately the diagnostic test for these disorders, they would like to include  
11 the reporting -- the language that's going to be necessary for reporting out  
12 the diagnostic tests as well.

13                   So in addition to all of the information of this report, we have  
14 an official request by the National Library of Medicine for the  
15 subcommittee to help out with this effort. So I guess I have to bring that to  
16 the committee and ask for permission to do that.

17                   That's the end of the report. So --

18                   DR. HOWELL: Okay, thank you, Jerry. It was your group's  
19 opinion, as I recall yesterday, that this is something that you would be  
20 perfectly willing to try to look at these names. And it was in the purview of  
21 your committee, and so forth. Is that correct?



1 DR. VOCKLEY: It seems like we're doing it already  
2 informally. So formalizing it, at least for initial trial period, seems  
3 reasonable to me, yes.

4 DR. HOWELL: I doubt that we need a formal vote on that.  
5 But I would just like to inform the committee that this group is doing that.  
6 And if anyone has any concerns about that, share them with Jerry. Is  
7 there anybody that would have -- I see no problem with doing that. I think  
8 it'd be important to advise the committee, which you have done.

9 DR. VOCKLEY: Perfect. Thank you.

10 DR. HOWELL: Thanks.

11 One thing I will comment, and that is that, as you know, we  
12 had a Health Information Technology Workgroup that has since decided  
13 its work was done. And Sharon Terry, who's co-chair of that, we expect to  
14 arrive later today. And I'll ask her to comment about that when she  
15 comes, and so forth. We've received a letter about that.

16 Thank you very much for that very good report, and so forth.

17 And now move to the Subcommittee on Education and  
18 Training that's co-chaired by Tracy Trotter and Don Bailey. And  
19 apparently, Tracy is the spokesperson.

20 DR. TROTTER: Thank you.

21 Yes. I would first of all like to welcome our new co-

1 chairman, Don Bailey. This was his first meeting. And we had a, I think,  
2 very productive meeting. We did not have fun with math.

3 (Laughter.)

4 DR. TROTTER: I am delighted to point out. So these are  
5 our subcommittee members. And all but one of those folks were there in  
6 attendance. And we had another dozen interested folks who were also  
7 helpful for us.

8 We were updated in the broad spectrum of educational  
9 training programs that are going on at our various and sundry offices, first  
10 being the Newborn Screening Clearinghouse. Natasha brought us up to  
11 date on where they are. The beta Web site, the [nbsclearinghouse.org](http://nbsclearinghouse.org),  
12 has been up for some time, as you know and will continue through the  
13 summer with the goal of going to the live launch of [babysfirsttest.org](http://babysfirsttest.org),  
14 which will be the real Web site in September of this year.

15 And we talked a lot about a number of things that have been  
16 added, including more sophisticated user guides, more condition-specific  
17 information from various -- that are linked to various databases, some of  
18 which are noted here, some of which are not. They have had an ongoing  
19 blog post with the Immune Deficiency Foundation to, sort of, bring the  
20 SCID screening information up to date. And the [babysfirsttest](http://babysfirsttest.org)  
21 development is going very well. They have brought in a company named

1 Blenderbox, which is a company that routinely does educational non-  
2 profit-type of Web sites. And these are just some of the statistics from the  
3 last three months during this time.

4 They're not really publicizing this in any way, other than, sort  
5 of, word of mouth among those of us in this room, probably. But they're  
6 still getting a fair number of visits without making any efforts to do that.

7 And both the Materials Workgroup and the Public Education  
8 Workgroup has met by telephone five or six times, depending which one  
9 you're talking about. And that will continue through the summer.

10 The challenge awards that I mentioned in January, which are  
11 designed to engage as a community and bridge the clearinghouse with  
12 existing programs, had four awardees for six-month projects that were  
13 announced on April 1st out of a number of excellent applications that I had  
14 the opportunity to see some of. The March of Dimes, NYMAC, the Hawaii  
15 Department of Health and APHL were all awarded grants, which probably  
16 in September we'll be able to hear something about how those are going.

17 And they have embarked on, between the Genetic Alliance  
18 and the Newborn Screening Clearinghouse, a program on identifying  
19 quality indicators. And these four groups are working together to see how  
20 we actually can identify those in the area of newborn screening and  
21 quantify quality improvement. That report also will probably be available

1 by September.

2 Other folks who updated us -- the Family History for Prenatal  
3 Providers, which is a tablet-based, computer-based family history  
4 program. We had an update from Alaina Harris, who's a staff person for  
5 them. And they're moving along. And hopefully, by September, they'll  
6 actually be in their testing mode and we'll be able to take a look at that.

7 We had a special presentation by Brian Pike from the  
8 Southeast region on the educational -- some of the educational and  
9 training aspects of their region and some interesting programs, especially  
10 in the area of nutrition for metabolic diseases and training for such thing.  
11 You have heard in the past about the Genetics in Primary Care Institute  
12 that RFP went out in January, I believe. It has been reviewed. There is,  
13 at this point, no identified funding. And because of that, there's not an  
14 announcement of an awardee. But we anticipate to be able to do that  
15 within a reasonable time.

16 Colleen updated us from her group. And the representatives  
17 from ACMG, Barry Thompson, was there talking about the foundation's  
18 summer genetics scholar program, which is, I think, a very exciting  
19 program for medical students who have completed their first year of  
20 medical school, spend a time with a -- in a genetic situation in a focused  
21 way for some period of time during their summer. And, to me, it serves

1 two great purposes, from an educational standpoint. One is, hopefully,  
2 increasing the number of medical geneticists that come out of the pipeline  
3 down the road, which obviously, is a significant shortage right now and is  
4 going to be worse.

5           And the other is, at the very least, introducing young medical  
6 students to this exciting field early on so that, as they go on to do other  
7 things, whatever their specialty or sub-specialty is, they will be tuned in,  
8 more genetically literate and, I think, much more able to handle the  
9 information as it comes out.

10           We had two presentations from groups that are  
11 independently working on newborn screening in general. Kelly Leight's  
12 group, called called Preserving the Future of Newborn Screening, updated  
13 us on their development of educational materials as did Jill and Cate on  
14 Saving Babies Through Screening Foundation, through their video, which  
15 we look forward to having a look at by our next meeting.

16           Our usual updates from our representatives from the major  
17 primary care groups, Tim Geleske from the American Academy of  
18 Pediatrics and Fred Chen from Family Physicians and Allen Hogge from  
19 ACOG update us on that. The numerous things, actually, that are going  
20 on, as you might imagine, in those groups that relate to our educational  
21 efforts was well-received.

1                   So that's just our -- that was for Michele. She likes to get the  
2 law in there at least once. So we've got to.

3                   (Laughter.)

4                   DR. TROTTER: So the national newborn screening  
5 awareness campaign, which is something that you all as a committee  
6 approved, is moving forward with last time, is launching into phase one.  
7 There was a little delay when the government shut down, or nearly, but  
8 launching phase one. So we are now looking at the lay of the land, as it  
9 were, what's out there now, what do we need to identify, what gaps need  
10 to be filled and what audiences want to hear. And at the end of that first  
11 phase, then we'll try to get appropriate stakeholders together to then  
12 hopefully create a plan. From that point, I would think, bring that back to  
13 you to see if you think this is a reasonable idea to go forward or not.

14                   And that was most of our meeting. Any questions, concerns,  
15 complaints?

16                   DR. HOWELL: Thank you very much, Tracy.

17                   We'll now go for the Subcommittee on Follow-up and  
18 Treatment, Coleen Boyle and Jeff Botkin. And Jeff is going to be the  
19 spokesperson?

20                   DR. BOTKIN: Yes, I'm going to be presenting this morning.  
21 And my apologies for not having any PowerPoints, for those of you who

1 are visual learners.

2 (Laughter.)

3 DR. BOTKIN: Our subcommittee welcomed Robert  
4 Austrander. He's a family practitioner from New York, Robert in the  
5 audience there. He's going to be an articulate and helpful contributor to  
6 our subcommittee.

7 So most of our discussion was focused on the issue that we  
8 spent some time with yesterday, which is hospital-based newborn  
9 screening. So I want to outline the substance of our conversation at the  
10 subcommittee meeting and potentially get feedback, if that's appropriate.

11 So we're building on a discussion the subcommittee had by  
12 telephone over a number of months, at this meeting yesterday and then at  
13 the subcommittee meeting. So I think everybody recognizes that there are  
14 significant new issues to be addressed in screening that goes beyond  
15 blood spot screening. So how best to address those new issues, of  
16 course, is the key question.

17 Our group is interested in maintaining a focus on newborns  
18 as the population of interest for this discussion. I think, clear from the  
19 background authorizing legislation for this committee that this committee's  
20 mandate is not restricted to newborns. Nevertheless, we felt important not  
21 to bite off more than we could chew and that newborn focus would be

1 appropriate. And certainly, issues that arise within the nursery  
2 environment will be a little bit easier to address rather than the broader set  
3 of issues relevant to infants and children and the various places in which  
4 they might receive screening.

5           So our focus then, we anticipate, being newborn screening  
6 broadly construed and leave it for additional discussion at some future  
7 time about older of infants and children. Now, our recommendation at this  
8 point, or our initial plan is to pursue a white paper for this effort to develop  
9 these ideas in the context of a white paper rather than through developing  
10 a conference. And I think we had initial discussions over the last several  
11 months that a conference might be the best way to invite stakeholders and  
12 to further explore these ideas. The conclusion yesterday that a white  
13 paper would be a more appropriate and efficient way to develop these  
14 ideas.

15           We have a tentative first part of the title for the white paper,  
16 "Reframing Newborn Screening." And there's a colon, because all titles  
17 have to have a colon. But the concept, of course, is straightforward here,  
18 reframing newborn screening to be a term that refers to this broader set of  
19 activities beyond blood spot screening and expanding the types of  
20 interventions that have been familiar with the hearing screening efforts.

21           So the point would be to address the issues that make



1 hospital-based screening different than blood spot screening. We would  
2 be addressing standards for screening in some of the things that Nancy  
3 outlined for us yesterday in terms of the nature of the test, the urgency of  
4 the intervention, equity issues, all being important to look at standards for  
5 what would qualify in this particular context. And particularly, we're  
6 interested in the roles and responsibilities from the various stakeholders.  
7 And I think that's going to be, perhaps, the hardest nut to crack in this  
8 domain, who's responsible for what, once we move beyond the more  
9 familiar domain of blood spot screening.

10                   So the white paper would identify and outline these issues.  
11 And we anticipate the white paper making recommendations. And that's  
12 unclear how specific those recommendations would be. But I think the  
13 concept here is we need to outline what the issues are and then, at least  
14 take tentative steps toward drawing some conclusions about some of the  
15 key issues.

16                   So stakeholders, of course, are essential. And there's a  
17 whole host of stakeholders that have been identified here. There's public  
18 health, the hospitals, third-party payers, including Medicaid, primary care  
19 providers and their official organizations like the AAP and the AAFP,  
20 nurses, the public, more broadly. Preventive Services Task Force and the  
21 Joint Commission have been identified all as key stakeholders that we

1 want to engage in this effort.

2           We've identified at this point a core writing group that will be  
3 responsible for initial drafts and for engaging those stakeholders. I don't  
4 think we anticipate that we're going to have a long list of co-authors  
5 representing each of the stakeholders, but rather have a smaller group of  
6 authors who will engage the stakeholders and make sure those folks are  
7 informed and supportive of the direction of this paper.

8           Additional discussion this morning about whether the  
9 Webinar might be an appropriate tool to help in this process. I don't think,  
10 from my perspective, been quite enough discussion about this yet to  
11 understand whether that Webinar would be a mechanism to gain input or  
12 more of a mechanism to publish initial or draft content in order to get  
13 feedback from that larger community. But that's certainly on the table then  
14 about a mechanism that we can reach out.

15           So that's my summary of that particular element.

16           Coleen, I don't know whether you had anything to add, or  
17 other committee members, subcommittee members?

18           DR. HOWELL: It sounds like a very good idea to me  
19 personally. Now, we should hear some thoughts from the committee  
20 about that. And so, did you discuss a timeframe?

21           DR. BOTKIN: I don't believe we have.

1 DR. HOWELL: It's a very silent group this morning.

2 DR. BOTKIN: Need some more coffee here.

3 FEMALE SPEAKER: (Inaudible).

4 FEMALE SPEAKER: I was going to say a draft.

5 FEMALE SPEAKER: Okay.

6 FEMALE SPEAKER: Okay.

7 (Laughter.)

8 DR. HOWELL: I think the content of this is so important that

9 it really should move along, I mean, bearing on our discussion yesterday,

10 and so forth. So, I think that if the group could conceive of having at least

11 a draft by the next meeting, that would be helpful, I think, and so forth.

12 I would assume that all the silence around the table would

13 mean that folks are comfortable with your committee moving ahead on

14 that. I don't think we need a formal vote on that.

15 DR. BOYLE: Let me just say I would say we have a draft

16 that we'd share with our subcommittee, not a draft ready for the full

17 committee. So it's going to take a while in terms of vetting. And really, I

18 mean, I view the Webinar as an opportunity and a process to get input to

19 this, to reaching out to the partners and the audiences that we felt weren't

20 represented around the table and in our subcommittee yesterday.

21 DR. HOWELL: Sounds like a good idea. So great, we'll look

1 forward to hearing great activity in this area.

2 DR. BOTKIN: Great. Thank you.

3 So other agenda activities yesterday -- Amy Brower gave us  
4 an update on the National Coordinating Center, HRSA data set efforts  
5 looking at public health measures for long-term follow-up. And, as folks  
6 may recall, it's uniform data sets for follow-up of children with the full range  
7 of conditions identified through newborn screening. And this is a really  
8 important and complicated effort that sounds like folks are making good  
9 progress on to try to develop uniformity to enhance data collection in this  
10 arena.

11 I had a medical foods update from two perspectives. Susan  
12 Barry gave us some additional information about a draft paper that's  
13 moving forward. This is a regional collaborative survey effort. And then  
14 Christian Brown gave us a quick update on federal legislation regarding  
15 medical foods. And legislation is currently pending at both the Senate and  
16 House at this point.

17 Al Zuckerman also gave us a very thorough update on a  
18 variety of HIT activities that are ongoing relevant to newborn screening.

19 So our thanks to all of our subcommittee members for their  
20 contributions.

21 And anything additional?

1 DR. BOYLE: And one more issue was that the white paper  
2 that Brad Thorell had developed linking newborn screening-related results  
3 to vital record information to help facilitate follow-up and evaluation -- we  
4 have had subsequent conversations with NAPSIS. And, as you may  
5 recall, the former executive director of NAPSIS was -- and the board --  
6 were supportive of that concept. But I can't remember what his name  
7 was. Garland Land, I think, was leaving in December. So we wanted to  
8 wait until the new director is in, whose name is -- I don't remember her  
9 name, either. I apologize.

10 But anyway, she feels that the board is still very supportive.  
11 And we are going to get NCHS and NAPSIS together on a phone call.  
12 And we will definitely report back to you in September. And hopefully,  
13 we'll have moved along with that issue by that time.

14 DR. HOWELL: With regard to the medical foods, this  
15 committee obviously has had a considerable interest in that and sent a  
16 letter to the Secretary, who, quite properly, pointed out that this was -- she  
17 thought that's a good idea, but was not necessarily in her purview. Is  
18 there anything you report on the legislation, other than the fact that it has  
19 apparently some additional sponsors? Is that correct? Is there evidence  
20 that this is moving along? Or is it fairly stuck? Were there any comments  
21 about that?

1 DR. BOYLE: I don't if Christine -- thanks, Christine.

2 MS. BROWN: Hi. I can give you an update on that.

3 Christine Brown, from the National PKU Alliance. It's moving. It's moving  
4 slowly. There is a good possibility that it may be attached as an  
5 amendment to a Senate bill. We'll know more about that when we meet  
6 with Senator Kerry's office in about two weeks.

7 In addition to that, we're still looking at other ways to  
8 advocate the inclusion of medical foods as essential health care benefits  
9 under the ACA. A number of geneticists and dieticians have been  
10 testifying or providing comment at the IOM meetings that are happening  
11 throughout the country. And the Department of Labor survey was recently  
12 sent to HHS, which was the other piece on determining essential health  
13 care benefits. And that piece was obviously a little disappointing. I mean,  
14 that's the survey that looked at, you know, health care plans across the  
15 country and what they currently cover.

16 And, for example, in that survey alone, they found that only  
17 27 percent of health plans cover diabetic care management. So if they're  
18 only covering 20 percent of diabetic care management, are they going to  
19 even look at really, you know, coverage in terms of lab fees, you know,  
20 dietetic visits, et cetera, for inborn errors of metabolism? So it's going to  
21 continue to be an uphill battle. But, I mean, we have a coalition of, you

1 know, 40, 45 organizations that are working together on the legislation.

2 DR. HOWELL: Well, the medical foods issue is important.

3 And I think this committee is very supportive of that program. And

4 hopefully, members can individually do what they can to make that move  
5 along.

6 MS. BROWN: I would hope so. Thank you.

7 DR. HOWELL: Thank you very much.

8 Jeff, other activities from your committee yesterday?

9 DR. BOTKIN: No, thank you.

10 DR. HOWELL: It sounds like you had a busy and productive  
11 day. Thank you very much, and so forth.

12 We now are going to hear about the EEM Work Group  
13 meeting from Ned Calonge. And Ned is in the mile-high city.

14 And, Ned, I'm told you're on the phone.

15 DR. CALONGE: I am. Can you hear me, Rod?

16 DR. HOWELL: Yes, we can. Welcome to our meeting.

17 DR. CALONGE: Actually, I'm in the Pacific Northwest in  
18 Kelso, Washington. So I wish I could be there with you.

19 DR. HOWELL: And I hope you're inside. I'm sure it's raining  
20 there. I don't know. But --

21 (Laughter.)

1 DR. CALONGE: If it's not, it will be.

2 (Laughter.)

3 DR. CALONGE: So I'd like to report on the meeting that we  
4 had on April 13th in Bethesda. And if you think about that day, that would  
5 be the week immediately following the potential close-down. And so, we  
6 were very excited and felt that it'd be successful just by the fact that we  
7 got to have a meeting at all.

8 I want to recognize that there were a number of committee  
9 members and members of our evidence group that participated. Dr.  
10 Bocchini and Dr. Dougherty from the committee attended, from our HRSA  
11 staff, Dr.

12 Puryear and, of course, Dr. Copeland, a number of staff from  
13 the Evidence Center, including Dr. Perrin, Dr. Greene, Dr. Kimber, all  
14 participated, Dr. Crofter as well. And I can't go without recognizing that  
15 Alex Zapp made sure we all got there and were courteous to one another  
16 when we talked.

17 In addition, there were a number of experts in different parts  
18 of the evidence-based medicine world who came together to try to help  
19 shape some additional thinking around our own evidence-based methods  
20 and how we translate things into recommendations for the Secretary. We  
21 heard presentations on the EGAT process from Dr. Steve Toish, from the



1 great process from Dr. Shuneman, from the community guide process  
2 from Dr. Jonathan Fielding and U.S. Preventive Services Task Force from  
3 David Grossman. And then, finally, we heard comments from Dr. Diane  
4 Petey regarding the use of modeling to inform the policy and David Atkins,  
5 who had experienced both at Grady and USPSTF helped me string things  
6 all together.

7 I'd like to share the concept of what we brought forward and  
8 what we hope to translate into additional recommendations for the  
9 committee to consider, moving forward. The first point I would like to  
10 make is that we were urged to consider the place of other study designs in  
11 our evidence-based methodology. And actually, beyond the traditional  
12 observational study designs, there were recommendations on how we  
13 could use case theory to represent the kind of case control study that  
14 could move our information forward.

15 I think the important thing to remember when we consider  
16 additional study designs is that their (inaudible) validity through sources of  
17 bias that we just need to keep in mind and think about the directionality of  
18 the bias and be honest with ourselves about whether or not the bias  
19 overcomes the utility of the data in making decisions. So the case theory  
20 was a real important area and we were pointed to some new work by  
21 some epidemiologists, Dr. Cummings (inaudible) at the University of

1 Washington, in how to consider these issues.

2 I think the other recommendation was time theory analysis,  
3 which may be less relevant to newborn screening, but at the same time,  
4 thinking about casting a broader net with how to gather information to  
5 inform our work, going forward, was critical.

6 The second area was the fact that we needed to keep in  
7 mind that we have a number of national experiments going forward.  
8 Specifically, we're pointing to the issue that some states, based on local  
9 decision making and policy settings, launch into screening for new  
10 conditions before other states. And what that provides us with is ongoing  
11 information in the form of an actual experiment that could really help move  
12 our work forward and better inform the committee as well as the other  
13 states about the utility of these screening approaches.

14 The issue, though, that that brings up is that keeping track  
15 and developing registries that allow for longitudinal assessment is simply  
16 critical to using these national experiments to better fill in the evidence  
17 gaps around screening for certain conditions. And so, an urge to the  
18 committee and the smart people in the room there in Washington about  
19 how we could make registries come alive and contain sufficient  
20 information to provide us with case theories and comparative data, moving  
21 forward, is just something that it's an opportunity we are currently lacking

1 in most settings. And we will never gather the data we need to make  
2 decisions on very rare conditions if we can't figure out a way to follow  
3 these cases over time.

4           The third major theme that came out of the discussion had to  
5 do with the use of modeling to help inform decision making. I'm going to  
6 quote Dr. Bocchini, who, earlier in the presentation, said, "Models don't  
7 make decisions. People do." And the point she's trying to make is that  
8 these models don't contain the answers within them. But what they do is  
9 reframe or reconstitute the data in ways that can help us wrestle with the  
10 issues that face us in making decisions around our newborn screening  
11 and what conditions to add.

12           So modeling can give you -- I guess one of the ways to look  
13 at it is there's uncertainty involved in looking at conditions where the data  
14 are insufficient. And what modeling can do is help us understand the  
15 limits of those uncertainties. One way to put it is how wrong could we  
16 possibly be. Or, you know, how much benefit could we do if we reached  
17 every kid who screened positive? And at the same time, knowing the  
18 limits of the testing, what are the harms that would be associated with,  
19 specifically, false-positives, but also false-negatives, moving forward?

20           And modeling that happened at a high level, conceptual level  
21 that were simple to build, that resulted in decision analysis or for things we

1 call outcome tables, you know, what happens if you screen 100,000 or 1  
2 million children and you look at all the potential outcomes that could  
3 occur? Those simple models should help inform the committee, moving  
4 forward. We believe that the evidence group under Jim can have that  
5 level of expertise and those models can also help us inform -- I'm sorry,  
6 help inform us in our mission of trying to understand the potential  
7 cost/benefit of the tests -- or the conditions we're studying.

8           Sensitivity analysis is important in building models so you  
9 understand how good your model is. And then just recognize that the  
10 model doesn't answer the question. It simply helps inform the committee  
11 about where the uncertainty is and helps us make a decision.

12           I guess the last issues I would bring forward have to do  
13 around uncertainty and how we communicate that to all the stakeholders  
14 in newborn screening and then what we do in decision making, moving  
15 forward. So if the evidence is insufficient and we believe the evidence is  
16 going to remain insufficient for some time, we have uncertainty around the  
17 net effect, the net benefit associated with newborn screening for a  
18 condition. So communicating that to our stakeholders, including other  
19 clinicians, parents and advocates, scientists and researchers, will be  
20 critical to our success and to the reception of the recommendations of the  
21 committee, moving forward.

1                   We did talk a little bit about the subject, I know, you guys  
2 had brought up yesterday, which do we need other categories for our  
3 conditions than the four we currently have. And I think the two things we  
4 talked about and that I think the committee will need to discuss and make  
5 decisions about, moving forward, was one is the concept that Medicare  
6 has a coverage with evidence development.

7                   And those of you who were involved with the decision  
8 making framework early on know that we had considered a category  
9 called the provisional category, where we would add a condition with the  
10 understanding that we were going to collect specific evaluative data,  
11 moving forward, both some time in the future, as we filled in the evidence  
12 gaps, we could rereview the condition and make a better decision about  
13 whether to keep it on as a permanent condition in the core panel or  
14 whether or not the evidence now accumulated to the point where we could  
15 take it off.

16                   So this is like the concept in Medicare of coverage with  
17 evidence development that embraces adding a coverage to a specific  
18 medical therapy or managed strategy with the dedication of collecting  
19 data, moving forward and then reevaluating the type of the coverage that  
20 continues. So this concept of a provisional addition of a condition is  
21 something, again, I would like the committee to wrestle with at some point.

1                   And the last modification or consideration for modification of  
2 our result is that does every condition we look at need to end in a  
3 recommendation from the committee to add the condition as a uniform  
4 screening test for all births. Inherent in the idea was that there may be  
5 conditions for which the evidence is insufficient or the system that would  
6 need to evolve to capture the screening data is sufficiently different or  
7 onerous, compared to our newborn blood screening, that we make the  
8 recommendation to the Secretary not to add the condition as something  
9 that should be part of the core panel for all infants born in the United  
10 States, but that there might be other recommendations that say a hospital  
11 should embrace this screening test as a best practice or we turn the  
12 condition back to the clinician and medical staff of those institutions to  
13 figure out how to get implementation and how to implement  
14 recommendations for which we believe there's potential benefit, but the  
15 evidence doesn't support.

16                   We don't reach that bar of saying, boy, we are certain this is  
17 going to take children with longer or healthier, and therefore, need to be  
18 added as a condition, to be done at every birth. So these two issues  
19 about the potential adding of conditions provisionally and then other  
20 recommendations other than a uniform screening approach are the things  
21 the committee talked about.

1                   But I apologize that this was a diatribe with no slides.

2                   Michele, I guess you could fire me, if you needed to. But  
3 these are the discussions we had. And I'd really like to hear the thoughts  
4 of others that could inform Dr. Perrin, the Evidence Review Group and the  
5 rest of the committee, going forward.

6                   DR. HOWELL: Thank you very much, Ned.

7                   Denise, you were there, as was Joe. And could you add  
8 your comments?

9                   DR. DOUGHERTY: I thought it was an excellent meeting.  
10 And I liked the way Ned summarized it. So I don't have anything to add. I  
11 think the decision modeling is a terrific idea and will be very informative to  
12 the committee.

13                  DR. HOWELL: The two specific recommendations that he  
14 had?

15                  DR. DOUGHERTY: Which were? Sorry.

16                  DR. CALONGE: No, no, the -- Rod, I think she was talking  
17 about doing decision modeling.

18                  DR. HOWELL: Okay. Okay.

19                  Joe?

20                  DR. BOCCHINI: Yeah, I, too, thought that it was really an  
21 excellent meeting. There were a number of individuals there who have

1 made significant contributions to development of evidence review and how  
2 to approach it in a transparent way. And I think they gave us some very  
3 good suggestions, as Ned pointed out, how to take limited data and use it  
4 to our best advantage and then, in reference to the severity of the problem  
5 that's being evaluated, how to then modify our approach, based on a  
6 potential outcome for the individuals with the limited data that we have.

7           And I think that the modeling recommendation was really  
8 good. I think it gave us a -- gives us a good opportunity to look forward  
9 and then make decisions in a more rationale way. So I think overall it was  
10 really an excellent meeting.

11           DR. HOWELL: Coleen?

12           DR. BOYLE: So I had a question for Ned and others who  
13 were in attendance. So that I guess I'm intrigued, again, by this idea of  
14 acceptance with provision. But it seems to circle back to what you had  
15 originally proposed or identified as -- in your number two, which is the  
16 number of the natural experiments and taking opportunity there and  
17 somehow urging whatever rollout occurs under that -- you know, if we  
18 were to go forward with a provisional recommendation, to capture that  
19 data so that, in fact, we can continue to build on that evidence base.

20           I just feel like, you know, I think we tried to do that in the  
21 context of the CCHD recommendation. But I don't know if when you



1 discussed the acceptance with provision you thought about the  
2 implications there and how, you know, we needed to somehow move  
3 forward in a very deliberative way about getting additional information.

4 DR. CALONGE: Well, Coleen, we didn't really talk about  
5 that as specifically as, I think, you are. I think, you know, what's easy to  
6 say that everyone in the room -- there was a palpable sense that this was  
7 something we had to figure out how to do, otherwise we'd kind of continue  
8 operating in the dark with hopes that we were doing the right thing. But I  
9 don't think anyone overlooked the fact that (inaudible) actually the policy  
10 implications of trying to do it are completely different.

11 It was interesting that there are groups of ethical experts  
12 who are looking into the use of information to support public health issues  
13 that are also wrestling with information in the comparative effectiveness  
14 world and in genetic screening -- genetic testing world as well and trying to  
15 figure out whether or not the exemptions for public health that are  
16 associated with HIPAA could also translate to broader areas involving  
17 informed consent and linkage of information and (inaudible) identified  
18 ways, moving forward.

19 And it was fascinating to hear that, from a legal standpoint,  
20 there are ethical groups that have decided that if it's a public health issue,  
21 it fits under their 5(12) exemptions -- I'm sorry, Section 5(k) exemptions

1 and therefore, don't require informed consent. The problem there -- and I  
2 know there's a number of newborn screening spot retention folks in the  
3 room -- is that there's a difference between legal interpretation and public  
4 acceptability. And so, trying to figure out how to change the dialogue  
5 around the importance of gathering these kind of data in terms of how they  
6 help the population and changing that dialogue just to have a better sense  
7 of the benefit of how linking those data could be helpful to kids in the  
8 future is a dialogue that I think somehow needs to be embraced and  
9 policies arise around them.

10 But I don't think there's any easy way to do it. And until that  
11 happens, I think we are probably most squarely in the world of figuring out  
12 how to do this with better and proper research methodology.

13 DR. HOWELL: Any further comments from Joe, Denise?  
14 Joe?

15 DR. BOCCHINI: I was just going to say, for the provisional,  
16 that would be something that you would want to use very rarely. I think  
17 that that -- one of the things that we did talk about -- and, Ned, you might  
18 be able to expand on this -- is that if you make a recommendation in a  
19 provisional way and people adopt it, then bringing it back or taking it out  
20 because of new data would be something we really don't want to have  
21 happen. So you'd have to be pretty certain that you're likely to be correct

1 before you went forward with something provisional.

2                   And I know ACIP has had some issues with provisional  
3 recommendations, and it's now rethinking that term. And maybe rather  
4 than provisional, you look at pilot studies or things like that in limited areas  
5 to try and get the data that you need rather than go provisional.

6                   DR. HOWELL: I think that's a very good point because  
7 stopping something is extremely difficult, unless it was clearly a pilot  
8 study, et cetera.

9                   Jeff?

10                  DR. BOTKIN: Well, I appreciate that comment. I guess I'm  
11 supportive of some sort of provisional approach, given the fact that if we  
12 tend to have either an up or down vote on promising conditions, it seems  
13 to me a negative vote can significantly inhibit the development of that test  
14 for a number of years. On the other hand, a positive vote may suggest  
15 that the data is sufficient for a firm conclusion.

16                  So the question to me is how do you leverage the larger  
17 research system to move forward on what you think are promising  
18 conditions. And it seems to me, that's sort of provisional, as we did to a  
19 certain extent with congenital heart disease to say, very promising, but  
20 yet, there's some gaps. So how do we leverage the system to get those  
21 gaps filled in a timely way, it seems to me, to be the challenge.

1 DR. HOWELL: And we'll discuss that further today with  
2 SCID because it's the prime example of the fact that there were additional  
3 data that we wanted and that was specifically included in our  
4 recommendation, et cetera.

5 Jerry?

6 DR. VOCKLEY: It might be a moot point because not  
7 everything that's submitted to the committee goes to the Evidence Review  
8 Group. But we do also want to be careful that we don't, sort of, provide a  
9 back door into getting more funding for a condition by getting it to the  
10 committee and saying, oh, well, all we have to do is get them to say no  
11 buts. And it raises the priority. So that's just a -- like I say, if it gets to the  
12 -- we do a preliminary screen, so we probably aren't going to run into that.  
13 But it is theoretically possible.

14 DR. HOWELL: Ned, it seems that there's considerable  
15 support for some of the thoughts that came out of your group, and so  
16 forth. Did you discuss the mechanism of going forward with those  
17 thoughts as far as was it suggested that this go back to our Evidence  
18 Group, that we constituted to look at these issues, and come back to the  
19 committee with recommendations? Is that what you all were thinking?

20 DR. CALONGE: Well, that's certainly what I was thinking.  
21 I'm hoping Michele is sitting next to you nodding her head.

1 (Laughter.)

2 DR. HOWELL: Well, I'm sitting right next to her. And if we  
3 need to, I can nod her head.

4 (Laughter.)

5 DR. HOWELL: But the bottom line is it would seem prudent,  
6 with these very important thoughts, we need to have a mechanism to  
7 move forward. And I would think that we would want to communicate this  
8 to Dr. Perrin and to his group to see if they can come forward, have some  
9 discussions and come forward with specific recommendations about this  
10 decision.

11 Michele?

12 DR. PERRIN: Dr. Howell, this is Dr. Perrin. If I could just --

13 DR. HOWELL: Oh, hi, Jim.

14 DR. PERRIN: If I could just make a quick comment, which is  
15 that's exactly what we, and especially Alex Cantor, are thinking of doing,  
16 which is developing a manual of procedures relating to how we do  
17 evidence reviews, really, much based on the discussion that we had with  
18 this committee. And I think we very much look forward to bringing this  
19 back to that group of consultants and advisers for their advice on how to  
20 make this even stronger. But, you know, we really want to develop fairly  
21 clear procedures on how we're going to move forward.

1 DR. HOWELL: Coleen?

2 DR. BOYLE: So that addresses, I think, some of the  
3 methodologic issues that were brought up, you know, other study designs,  
4 natural experiments, the modeling. But it doesn't really -- I mean, the  
5 uncertainty part of it -- but it doesn't really address the issue of a  
6 committee decision. So how is that going to be brought back to us in  
7 terms of the work group?

8 DR. HOWELL: I would assume that these recommendations  
9 would come back to the committee.

10 DR. BOYLE: From the work group?

11 DR. HOWELL: Yes, absolutely. That would be my thought.  
12 It clearly would be a committee decision. But I would assume that this  
13 group would be getting some material together and making  
14 recommendations and suggestions to the committee.

15 DR. CALONGE: So, Rod, this is Ned. Could I interject there  
16 for a moment?

17 DR. HOWELL: Sure.

18 DR. CALONGE: So I think what Coleen is actually pointing  
19 out is that there are a couple of fronts to move forward on. And one is  
20 evidence modeling issue and how this fits in. And that's something that's  
21 clearly within the purview of Jim Perrin and his group. The issue of other

1 products of the committee, I think, is actually less the purview of the  
2 Evidence Group. Although, if Jim wants to take that on, that's great.

3 We did have a separate Recommendation Process  
4 Committee that actually published the paper and adopted our process,  
5 kind of, went away. But traditionally, this would be committee members  
6 working more specifically on that process and decision making and going  
7 forward.

8 And, Michele, I don't know if you've thought about this, but,  
9 like, reconstituting or thinking about how the committee should consider  
10 these other issues that have less to do with evidence review, modeling  
11 and presenting information to the committee and more with what the  
12 committee does with that information, maybe something we have to think  
13 about again.

14 DR. HOWELL: Okay. I think that there's much head-  
15 nodding, which you can't see. I think that that would seem to make a  
16 great deal of sense to me and around the table.

17 Is there any -- so the point is that we will expect to see some  
18 material coming back from the Evidence Group. We'll try to get Michele  
19 and her team to reassemble this other group to look at some of the way  
20 that this committee handles evidence once it comes back.

21 Is there further discussion?

1 Thank you very much.

2 We have Chris.

3 DR. KUS: Yeah, just, Ned, could you expand? You talked  
4 about provisional, and you talked about pilot, the pros and cons of that  
5 kind of possibility. I think we talked a little bit about the provisional being  
6 hard to stop. But what about pilot? Any more discussion on that?

7 DR. CALONGE: Well, I think the pilot approach is actually,  
8 as you've heard, it's a superior approach. I guess one of the things that  
9 you have to implement it. So what we have so far from a pilot standpoint  
10 is the fact that there is -- the variability is based in terms of considering  
11 adding screening for conditions not on the core status. So even though  
12 the intent of the (inaudible) Committee was to try to, you know, get away  
13 from that variability from state to state. You know, since there is 50  
14 general assemblies, there is going to be 50 different viewpoints on what  
15 should be added to the list.

16 And figuring out how to, in a structured way, take advantage  
17 of early adoption and (inaudible) decision or policy making from a state-to-  
18 state basis, I think, will be important. Plus, if we see an area where we  
19 think pilots might actually move the decision forward, having a process or  
20 a way to try to advise or incite states to implement pilot screening  
21 programs in those conditions -- figuring out how to do that with the



1 different states now available are all considerations, I think, we have to  
2 spend some time on. It's what you would expect from a highly functioning,  
3 nationwide newborn screening program, which, of course, it's one I believe  
4 we all aspire to.

5 DR. HOWELL: Thank you very much.

6 We're going to later hear from Dr. Brower about a pilot  
7 program which I think has been exemplary and exciting, and so forth. So  
8 we'll hear about that later.

9 But I think that we've had an adequate discussion of this.  
10 We're, fortunately, very ahead of the game. But if we look at the things  
11 that we have to include later, if we go to one of those, our break is going to  
12 be extraordinarily late. And so, what I'm going to ask us to do is to take a  
13 very brief break and return here at a quarter of 10. And we'll hear about  
14 the evidence review of the bilirubin issue and then proceed ahead.

15 Thank you very much, Ned and Jim.

16 (Break.).