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**SECRETARY'S ADVISORY COMMITTEE ON HERITABLE  
DISORDERS IN NEWBORNS AND CHILDREN**

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**Friday, January 28, 2011**

Renaissance Dupont Circle Hotel

1143 New Hampshire Avenue, N.W.

Washington, D.C.

The meeting was convened at 8:31 a.m., R. RODNEY  
HOWELL, M.D., Chairperson, presiding.

**PARTICIPANTS**

**MEMBERS PRESENT:**

- RODNEY HOWELL, M.D., Chairperson, presiding
- JOSEPH A. BOCCHINI, JR., M.D.
- TRACY M. TROTTER, M.D., F.A.A.P.
- GERALD VOCKLEY, M.D., Ph.D.

**MEMBERS PARTICIPATING ELECTRONICALLY:**

- JEFFREY BOTKIN, M.D., M.P.H.
- REBECCA H. BUCKLEY, M.D.
- BRUCE NEDROW CALONGE, M.D., M.P.H.
- KWAKU OHENE-FREMPONG, M.D.

**PARTICIPANTS (Continued)**

**EX OFFICIO MEMBERS PRESENT:**

1 COLEEN BOYLE, Ph.D., M.S.

2 KELLIE B. KELM, Ph.D.

3 EX OFFICIO MEMBERS PARTICIPATING ELECTRONICALLY:

4 DENISE DOUGHERTY, Ph.D.

5 EXECUTIVE SECRETARY:

6 MICHELE A. LLOYD-PURYEAR, M.D., Ph.D.

7 ORGANIZATION REPRESENTATIVES PRESENT:

8 American College of Medical Genetics:

9 MICHAEL S. WATSON, Ph.D., FACMG

10 Association of State and Territorial Health Officials:

11 CHRISTOPHER KUS, M.D., M.P.H.

12 Child Neurology Society:

13 BENNETT LAVENSTEIN, M.D.

14 Department of Defense:

15 THERESA HART, M.D.

16 Genetic Alliance:

17 SHARON F. TERRY, M.A.

18 March of Dimes:

19 ALAN R. FLEISCHMAN, M.D.

20

21 PARTICIPANTS (Continued)

22 ORGANIZATION REPRESENTATIVES PARTICIPATING

23 ELECTRONICALLY:

24 American Academy of Family Physicians:



1 DR. BUCKLEY: Present.

2 DR. LLOYD-PURYEAR: Ned Calonge.

3 (No response.)

4 Kaf, are you up? Can you talk?

5 VOICE: Not yet.

6 DR. LLOYD-PURYEAR: Okay.

7 Denise Dougherty's on. Alan Guttmacher is ill.

8 DR. DOUGHERTY: I'm here.

9 DR. LLOYD-PURYEAR: Yes, I said you were on.

10 DR. DOUGHERTY: Okay, thanks.

11 DR. LLOYD-PURYEAR: I said Alan is ill.

12 Freddy Chen.

13 DR. CHEN: I'm here.

14 DR. LLOYD-PURYEAR: Tim Geleske.

15 (No response.)

16 Mike Watson's not here. Bill Hogge.

17 DR. HOGGE: Here. Alan, actually.

18 DR. LLOYD-PURYEAR: Oh, it's Alan? Oh, okay.

19 William Alan.

20 I'm just looking at names of people who aren't

21 here. Alan Fleischman's here, Barbara Burton's here. Okay.

22 CHAIRPERSON HOWELL: Thank you very much.

23 We had some very active subcommittee and

24 workgroups yesterday, and we're going to start with those

1 reports. We'll start with Gerry Vockley, who is the  
2 Subcommittee on Laboratory Standards and Procedures. Gerry.

3 **SUBCOMMITTEE REPORTS:**

4 **SUBCOMMITTEE ON LABORATORY STANDARDS AND PROCEDURES**

5 DR. VOCKLEY: Thank you. I don't understand what  
6 the issue with the snow is. I've got my reservations for I-  
7 70 already.

8 CHAIRPERSON HOWELL: That's good.

9 (Laughter.)

10 (Slide.)

11 DR. VOCKLEY: I think we had a meeting last night  
12 or yesterday afternoon of the Laboratory Standards and  
13 Procedures Subcommittee. I think I wrote what we did on the  
14 slides, but I'm not 100 percent sure. We'll find out.

15 Here are our members, which did not translate well  
16 from my Mac to the PC. But we have quite a distinguished and  
17 expert group, and it was really one of our more interesting  
18 meetings. It had to be to keep me awake.

19 We heard three presentations: first from Dieter  
20 Matern at the Mayo Clinic. We had asked him to present a  
21 comparison of some newborn screening technologies looking at  
22 lysosomal storage disease, and in true fashion far exceeded  
23 our request.

24 We then had a discussion of in vitro diagnostic

1 devices, which in the case -- which in our context translates  
2 into laboratory-developed tests. We had Dr. Gutierrez from  
3 the FDA and Bill Slamek from Perkin Elmer speaking there, our  
4 Laboratory of Medicine colleagues updating us on messaging  
5 relative to the medical record and newborn screening.

6           So with the newborn screening initiatives, as I  
7 said, we had asked the Mayo lab to update us on a study that  
8 they're preparing to do with looking at various technologies  
9 available to screen for lysosomal storage diseases. Because  
10 of some overlap in the technology, Dr. Matern included some  
11 work that they were doing on Wilson disease, x-linked  
12 adrenoleukodystrophy and Friedrich's ataxia.

13           Going through some of the major considerations of  
14 what I'll call now non what's become standard metabolite-  
15 based screening, there are some issues that raise in that  
16 kind of testing, as well as considering the additive effect  
17 of adding additional tests to the screen. So for example, if  
18 you have one test, even with exceptionally good predictive  
19 value and false negative rates, as you add 10, 20, 30,  
20 eventually you get up, even with perfectly acceptable and  
21 even fabulous laboratory performance, to a range where the  
22 level of follow-up becomes a significant drain on the system.

23           So we have to keep that in mind as we're moving  
24 forward and continuing to add to the panel, that it is not

1 just adding one more test, and if everything else had a low  
2 false positive rate and this has a low false positive rate  
3 we're not doing anything more to the system. We are. We're  
4 stressing it additionally.

5           This sort of overlaps with the real reason for  
6 doing the comparative study, and that is if you don't do the  
7 comparative studies and you don't know which test is best,  
8 then ultimately you have labs doing different procedures for  
9 different kinds of testing, and some may be better than  
10 others and it adds to the follow-up load.

11           However, I will say that, even with a growing menu  
12 of tests, the numbers that Dr. Matern presented out of the  
13 Minnesota program for their screening results were truly  
14 impressive. I mean, they basically were getting positive  
15 predictive values where one out of two or one out of three  
16 babies or test results were something real, which is quite  
17 phenomenal given the number of tests that are going on.

18           The platform options that they are looking at for  
19 their comparative study are antigen-based technologies -- in  
20 particular, they're using a Luminex platform -- metabolite-  
21 based enzyme assays. So it's looking at a metabolite, but  
22 it's the product of an enzyme reaction specifically rather  
23 than looking in a non-directed way as we do, for example,  
24 with an A-cell carnitine profile. And then a digital

1 microfluidic-based enzyme assay which she described as being  
2 a lab bench on a chip. They were using a system from  
3 Advanced Liquid Logic. And then comparing this to whatever  
4 the standard traditional enzyme assay was for the field.

5 (Slide.)

6 I lifted this directly from his presentation. It  
7 was the only -- it's the only real data slide I wanted to  
8 share. It's not a data slide; a comparative slide, just to  
9 show you some of the key issues related to evaluating the  
10 platforms. That is, can you do them in a multiplex fashion,  
11 how complex is it for the lab to actually run that test, are  
12 the performance metrics suitable to high throughput, and of  
13 course, since this test is being done at Mayo or the study  
14 was being done at Mayo, he wanted to emphasize that they were  
15 in fact all available at Mayo.

16 So they will be comparing enzyme assays in the  
17 context of the lysosomal storage diseases, a fluorometry-  
18 based assay that's been the standard in the field, multiplex  
19 enzyme assay -- this is the Michael Gelb and Ron Scott  
20 technology with mass spec -- Popwood's platform using luminex  
21 for LSD enzyme assays, and then this digital microfluidics.

22 They don't have any results for us yet. It has  
23 been a challenge for them to get it up and running. But they  
24 now have all the platforms in place, and hopefully in the

1 coming year we should have some additional -- some first-look  
2 data from them.

3 (Slide.)

4 The technical challenges that are arising or that  
5 will arise out of whatever evaluation they make is that we  
6 really have to continue to consider that multitasking is in  
7 some way, shape, or form going to be necessary; that because  
8 of this issue with the additive effect of increasing numbers  
9 of tests, that the consideration of second-tier testing to  
10 decrease the false positive rate becomes potentially more  
11 important.

12 There was some discussion about the need for  
13 consent, not only for multiple tests, but for test  
14 development, and then disease-based standards for both  
15 quality control and test development.

16 (Slide.)

17 Switching gears and moving to the discussion keyed  
18 by Dr. Gutierrez and Mr. Slamek, Dr. Gutierrez first pointed  
19 out that laboratory-developed tests fall into the device  
20 oversight infrastructure for the FDA, so that's the  
21 connection there. In the context of newborn screening, the  
22 test is a device. So FDA can look at both safety and  
23 efficacy, and they have three levels of oversight that they  
24 can bundle things into.

1           The way they make the decision as to how rigorous  
2 to be with that oversight is really tied to the perceived  
3 risk. So, interestingly, newborn screening is really viewed  
4 as a low-risk procedure in the FDA terminology, not because  
5 of anything to do with the technology itself, but the fact  
6 that there are such elaborate follow-up mechanisms in place  
7 to deal with any information that comes out of the testing.

8           In that regard, he graciously acknowledged the  
9 work of this committee as evidence that the FDA could cite to  
10 say this is in fact low risk. people are watching this very  
11 carefully.

12           (Slide.)

13           One of the other pieces that came out of the  
14 discussion was that this next generation of testing that  
15 we're talking about is really the interpretation -- that's  
16 the wrong word because that's got a formal definition in the  
17 sort of testing world, but the ability to understand and  
18 parse out the key pieces of data from this testing becomes  
19 much more an issue than the actual test itself.

20           The example that came out was whole exome  
21 sequencing. The technology is there. You can get the whole  
22 exome sequencing on an individual. We pulled up on line, Dr.  
23 Howell pulled up on line, an ad to do it for a thousand  
24 bucks.

1           Interpreting that is way beyond our capacity right  
2 now, and certainly in the screening mode it's not even close.

3       But that really is going to become an issue of how to handle  
4 the data almost more than what the tests or technology is.

5           Then ultimately it was recognized that, as with  
6 most things, there are significant gaps in what we know and  
7 what we can do relative to rare diseases. But rare diseases  
8 are driving the field in a lot of ways with this group of  
9 technologies.

10           So that was a very interesting discussion, and  
11 Sara and I, Dr. Copeland and I, are going to be putting  
12 together a short -- some sort of short statement that we can  
13 just send on to the FDA encouraging them to consider,  
14 continue to consider, the ramifications of this kind of  
15 testing relative to rare disease. Sara, I'm going to count  
16 on you because I just don't remember very much about what  
17 came out of that, what we said we were going to do. But  
18 that's okay.

19           (Slide.)

20           I think I covered most of this: low-risk -- yes,  
21 so I said all that off the previous slide.

22           (Slide.)

23           So the last slide is just a quick update from Clem  
24 McDonald's working group that talked about messaging relative

1 to newborn screening. We were informed that HLS7 messaging  
2 is in fact in final stages of testing in Kentucky and is  
3 scheduled to go live within the next month or two, and that  
4 they're making significant progress in a variety of other  
5 states; that based on the latest NLM review, that the HLS7  
6 messaging in fact fully complies with the guidance that has  
7 come out for that. So they've really made quite nice  
8 progress.

9           They continue to look at proposals for how the  
10 reports -- what needs to -- what information needs to be  
11 transferred relative to newborn screening and LOINC  
12 nomenclature. There was a little bit of discussion in  
13 particular about the hemoglobinopathies. So they are making  
14 good progress and I don't think there is much else that --  
15 anything really new that the subcommittee needs to comment on  
16 about that.

17           (Slide.)

18           This is the final slide. LOINC codes now  
19 available for SCID, lysosomal storage diseases, and they're  
20 looking into the additional or defining the additional card  
21 variables that need to be captured. These are the fields  
22 that they now have available: the date of the last  
23 transfusion, whether or not the patient was on a specialized  
24 formula, whether or not the parents refused for some piece of

1 the testing, the birth hospital, and post-discharge provider  
2 and practice information.

3 So that is it.

4 CHAIRPERSON HOWELL: Sara, you had a comment?

5 DR. COPELAND: Yes. I just thought it was really  
6 important to note that Piero -- Dieter Matern's project is  
7 funded by NICHD through the Newborn Screening Saves Lives Act  
8 legislation. So it's a contract to Mayo to develop new  
9 newborn screening technologies, etcetera. I thought that was  
10 an important point to make sure we got.

11 CHAIRPERSON HOWELL: I think that it is going to  
12 be extremely valuable to see the head-to-head comparisons of  
13 these technologies all run in the same place, because that  
14 will be I think extremely informative.

15 Are there any other questions or comments of Gerry  
16 or Sara about this meeting?

17 (No response.)

18 So we'll expect to see a document that you're  
19 coming up with, that should be sent to the FDA about the  
20 level of risk in the newborn screening arena. Okay, great.

21 We're going to now hear from Tracy Trotter from  
22 the Subcommittee on Education and Training.

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**SUBCOMMITTEE ON EDUCATION AND TRAINING**

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DR. TROTTER: Thank you. First I would like to thank and send good thoughts to my co-chair, Jana Monaco, who could not be here today because her son is at National Children's having a surgical procedure done and she needs to be with him. And this was her last meeting. But we think of you, Jana.

(Slide.)

I want to thank everyone from yesterday. We had a packed-house meeting and a packed agenda that took all of our time and then some. I think we -- I think a lot of things are moving forward that are exciting. Here are the people who are formally on the subcommittee at this time.

(Slide.)

So our first report was from Natasha regarding the newborn screening clearinghouse, where things -- for those of you who know how Natasha and Sharon do things, things move fast around there, and they are. The beta web site is now active with the URL as shown, [nbsclearinghouse.org](http://nbsclearinghouse.org). We'll talk a little bit about what that might be different fairly soon.

There's a user guide available both in a pdf and web page. Condition-specific information is now available in

1 a number of different ways. There are blog posts going on  
2 from each of the regional collaboratives. The concept of a  
3 name for the web site I think has now come down to be "Baby's  
4 First Test," which had been talked about before. They have  
5 put out an RFP for web site development, babyfirststest.org,  
6 and received 11 proposals from some very significantly  
7 impressive firms who have done things like this in the past.

8 Internal review brought that to three proposals,  
9 and the final decision, if you get caught in the snowstorm  
10 you'll hear about it because it's going to be next week. It  
11 will be right here.

12 (Slide.)

13 They also announced the first newborn screening  
14 clearinghouse challenge awards. These awards are to engage  
15 the community and to bridge the clearinghouse with existing  
16 programs, what's out there in terms of outreach, engagement,  
17 educational efforts, and how can they use those more  
18 efficiently. The RFP was available yesterday and is due on  
19 March 1st. The projects are approximately six-ish months in  
20 nature, and there is up to, not guaranteed to but up to,  
21 \$25,000 per project.

22 So it's an exciting kickoff that will, they hope,  
23 impact between four and eight groups that will be awarded  
24 those grants.

1 (Slide.)

2 We had then presentations from a number of our  
3 members who are -- I'm happy to say we have at least eight or  
4 nine members of our subcommittee who are working on very  
5 significant and exciting projects that they brought to us,  
6 just so we are up to date on what they're doing. Emily  
7 Edelman from NCHPEG updated us on the family history for  
8 prenatal providers program. That's a tablet-based history  
9 program. We were as a group very excited about it. It is  
10 clearly for most of us in clinical medicine the kind of thing  
11 that we need to have happen if things are going to go forward  
12 and allow us to deal with large amounts of data and getting  
13 more information from people efficiently and using it  
14 efficiently.

15 That project's going very quickly now and we will  
16 have some information probably in the spring about their  
17 first testing; we understand a demonstration in May at our  
18 meeting.

19 (Slide.)

20 I'll come back to the Genetics Primary Care  
21 Institute later. Brad Thompson joined us, who is the father  
22 of a 21-year-old daughter who has special health care needs,  
23 who updated us on something called the Hali Project. Hali is  
24 his daughter. The project is very interesting and unique and

1 we were all very excited to hear him describe.

2           Basically, he trains or his group trains parents  
3 to be ombudsmen, if you will, for children with special  
4 health care needs and work in primary care offices, literally  
5 spend a half a day in a pediatrician's office or other  
6 primary care, interfacing with the families of children with  
7 special health care needs and helping them with basically all  
8 the non-medical issues, but issues that need for them to get  
9 things done -- organizing follow-up appointments with  
10 subspecialists, understanding how the system works, knowing  
11 what community resources there are, dealing with many of the  
12 emotional needs and expectations of families.

13           This is something worth your attention if you have  
14 an opportunity to learn more about this. I believe it's  
15 [thehaliproject.org](http://thehaliproject.org)?

16           VOICE: dot-org.

17           DR. TROTTER: Thank you, dot-org.

18           We were all taken very much by this.

19           Natasha also gave us a quick update on the HIT  
20 work group and the congenital conditions program, one of  
21 which you're going to hear more about from elsewhere.

22           Then we went back to our roots of what we're  
23 supposed to be doing. It says that, according to S. 1858,  
24 that we shall give information and advice in dealing with

1 public and provider awareness and education. As I'm sure you  
2 all remember vividly from my last presentation, but I will  
3 not quiz you about it, our subcommittee brought forward a  
4 proposal, a rough proposal, that Coleen Boyle I believe was  
5 the genesis of, that this may be a good time, an appropriate  
6 time for a national newborn screening awareness campaign.

7           Those of us that have been involved in newborn  
8 screening, or in my case actually I'm just a person who ends  
9 up utilizing it -- I'm the end user of it -- have had  
10 probably one of the, if not the, most successful public  
11 health programs ever in the United States, going along under  
12 the radar, without sort of very much information one way or  
13 the other, which has been fine until now.

14           Now, in the era of 97 channels available to you  
15 and they all need to talk about something, positive  
16 information needs to I think lead this forward. A more well  
17 informed public makes better decisions, and this was felt to  
18 be a good time to approach this project, much like autism was  
19 approached with a CDC project recently, much like the folic  
20 acid project from the March of Dimes.

21           So we asked Angela Colson, who is in the CDC  
22 Communications Group, to put together a proposal, which  
23 should be passed out to committee members at this point. It  
24 really talked about a four-phase, professionally run national

1 awareness program. I'm going to talk a little bit about  
2 phase one this morning because our request to the committee  
3 is that you agree that this is something that we should --  
4 the committee should go forward with, and if so Dr. Howell  
5 will decide how that's going to happen.

6 (Slide.)

7 So phase one would be called planning and strategy  
8 development, which has two phases. One is, which you see on  
9 the slide, a media environmental scan, which is really just  
10 saying what's out there, who are the stakeholders, what are  
11 they doing in this area. Lots of things are being done, as  
12 you all well know, and many of you are doing them. They  
13 maybe not always in a coordinated fashion and maybe we could  
14 be stronger by doing it together and being more consistent.

15 To understand what the current message is, both good  
16 and bad, and to identify information gaps.

17 Maybe one of the most important things is to  
18 define specific audiences. As a number of people who have  
19 been through these kinds of campaigns mentioned to us, you  
20 actually cannot be everything to everyone, and to do so you  
21 probably lose what you're after.

22 The second part of phase one would be a  
23 facilitated strategy summit. "Facilitated" I think is  
24 defined as having somebody who doesn't have a dog in the

1 fight trying to control the rest of us. That summit would  
2 review the analysis, solidify the goals that hopefully came  
3 out of the environmental scan, and more specifically define  
4 priorities and target audiences.

5           To round it out, the second phase would be  
6 developing and pretesting. The third phase would be  
7 implementing and the fourth page and critical phase we think  
8 is assessing effectiveness and making refinements. Almost  
9 every project that goes well needs tweaking down the line,  
10 and if one doesn't think of that ahead of time it's not going  
11 to work.

12           (Slide.)

13           So our recommendation to the committee as a whole  
14 is that we move forward with such an awareness campaign, and  
15 that these four components be part of that. We broke these  
16 out above and beyond what we've already talked about because  
17 we felt they were important linchpins to it.

18           One is to identify, somewhere in phase one,  
19 identify a very specific audience group so that we drive the  
20 strategy of what we do and how we do it. Two is to clarify a  
21 message that we thought initially needs to be broad and  
22 simple. Too much information tends to make people's ears not  
23 work. Have both qualitative and quantitative objective  
24 outcome measurements in place from the beginning, so that we

1 can in fact tweak these things as time goes on, and have a  
2 realistic outline of phases two through four with budget  
3 numbers. People do need to know what we're getting into, of  
4 what the results might be at the end of phase one, that we  
5 are not going to get into, I realize that, but I think we do  
6 need to at least have a clean view of what we're up to.

7 (Slide.)

8 I'll come back to that at the end to ask for your  
9 vote on that.

10 The last area was something that's been in the  
11 works for a while, as you all know. This also comes from our  
12 mandate, which is to raise the number of primary care  
13 providers who are competent and confident in providing basic  
14 information. The Genetics and Primary Care Training  
15 Institute -- the RFP, if you haven't finished it you really  
16 shouldn't be here today because it's due the 31st. The  
17 proposals will be reviewed in March and I hope that at our  
18 May meeting we'll have an initial startup report from  
19 whatever group has taken this on.

20 So at this point, I guess I would like to make a  
21 motion that we move forward to a phase one evaluation of a  
22 newborn, national newborn screening awareness program under  
23 the auspice of the Secretary's Advisory Committee.

24 CHAIRPERSON HOWELL: Tracy has made a

1 recommendation. Can we have a second to the recommendation?

2 DR. BOCCHINI: Second.

3 CHAIRPERSON HOWELL: Joe has seconded it. Let's  
4 entertain some discussion. One is, I would like you to spend  
5 a little bit of time describing in a little more detail  
6 what's in the phase one that we're getting ready to vote on,  
7 exactly what that would entail, with some numbers.

8 DR. TROTTER: What kind of numbers would you like,  
9 Rod?

10 CHAIRPERSON HOWELL: Well, I've got some numbers  
11 here. Are those the numbers you're talking about?

12 DR. TROTTER: Oh, you mean dollars?

13 CHAIRPERSON HOWELL: Yes. Are there other  
14 numbers?

15 DR. TROTTER: Not important ones.

16 So everybody has one of these handouts except me,  
17 actually. Gerry, let me have your handout.

18 CHAIRPERSON HOWELL: One is coming quickly.

19 DR. TROTTER: So we'll start with the numbers.

20 The estimation from -- I think this comes from Angie and  
21 Coleen's work on previous projects at CDC, is that correct?

22 Yes. \$65,000 to complete phase one. We have no, nor do I

23 have any capacity to give you, numbers for two, three, and

24 four, but I think professional communication groups, this is

1 a pretty -- as I understand, a pretty straightforward program  
2 in terms of how they would do it, so we should be able to  
3 find that.

4 CHAIRPERSON HOWELL: So the phase one that we're  
5 talking about would be to select the contractor and do the  
6 environmental -- that person would do the environmental and  
7 media scan, the stakeholder assessment.

8 DR. TROTTER: Correct.

9 CHAIRPERSON HOWELL: And conduct a partner  
10 strategy summit, and then submit a report of outcomes for the  
11 24th meeting of this committee. Is that correct?

12 DR. TROTTER: That would be our goal.

13 CHAIRPERSON HOWELL: Are there further comments or  
14 discussions about this? Coleen, you've given a lot of  
15 thought to this and apparently have participated in some of  
16 the background.

17 DR. BOYLE: I guess I would ask -- would you like  
18 to say, because you worked with Angie on the development of  
19 this.

20 DR. TROTTER: I forgot to, and I apologize, to  
21 thank the planning group that was appointed by Rod and  
22 Michele between our last meeting and now, who helped us work  
23 on this and focus on getting this ready for our meeting  
24 today, with some conference calls. It was very, very

1 helpful, with people, obviously, from outside the committee  
2 who had had experience in this. That's made a big difference  
3 in how we approached it.

4 MS. HARRIS: I will just echo what Dr. Trotter was  
5 saying. Then the other thing that we got from Angie was just  
6 pulling together this contractor that's doing the overall  
7 environmental scan and really getting a clear picture of  
8 what's out there, I think the important thing being the  
9 person without a dog in the fight, if you will, that can give  
10 us a clear picture.

11 Coleen, what else did you want to touch on?

12 DR. BOYLE: Well, I haven't been working with the  
13 committee, so I'm at a little bit of a distance in reviewing  
14 the proposal. But I guess I'll just react based on coming to  
15 a couple of these committee briefings planning strategies.  
16 Obviously, Tracy has done a wonderful job telling us about  
17 all of the activities that are currently ongoing, and  
18 obviously there's a long history in terms of education and  
19 communication on newborn screening.

20 So I think the rationale behind the first phase of  
21 this is to really get a good sense of that and not to sort of  
22 reinvent the wheel, as you were saying, as well as bring all  
23 the stakeholders together, so that information is  
24 consolidated, refined, and that provides us with the

1 appropriate platform for trying to move forward in terms of  
2 communication, to really understand what the needs are and  
3 how those resonate with the community.

4           So I think this is the baseline to set the stage  
5 for phase two, three, and four, and also maybe get a better  
6 sense of what's our likelihood of succeeding, and this is  
7 really the right way to go. So those are all the questions  
8 that would be answered through this process.

9           DR. TROTTER: I should mention that one of our  
10 speakers today, presentations today, regarding parental  
11 attitudes on newborn screening, if you look at that data  
12 you'll see what we're talking about in terms of missing,  
13 we're missing some targets that we should be hitting. We've  
14 realized, at least I have in the last three years as chair of  
15 this committee, that there are really a wonderful amount of  
16 really good things happening out there with a lot of groups.  
17 We just don't quite have a consistent way to put that  
18 together, and this might be the way to do that.

19           CHAIRPERSON HOWELL: Are there further questions  
20 or comments? Sharon.

21           MS. TERRY: I really appreciate this and think  
22 it's time. I think we're going to have to be really careful  
23 on the choice of a contractor because of the complexity of  
24 the landscape they're scanning. There are certainly very

1 vocal voices and we experienced some of those in Utah a  
2 couple days ago when we were there for a blood spot meeting.

3           There's also, though, the stuff like what will  
4 come out in Dave's data, that is different than that data.  
5 So there's almost a two-pronged kind of sensibility, because  
6 one is very important. The vocal people are able to do great  
7 damage and in the meanwhile the uneducated public is who we  
8 know they are to be.

9           The other part I'd say is I think if we do get to  
10 phase two, three, and four, I think in general government and  
11 nonprofits do a poor job compared to commercial entities,  
12 obviously, for advertising and for doing "Got Milk" campaigns  
13 and that kind of thing. So I think again we're going to have  
14 to be very hard-nosed about what we decide to do, how we  
15 decide to do it, and also how focused that's going to have to  
16 be to be real and not just another nice kind of small  
17 program.

18           I even fault Genetic Alliance as bad at  
19 distribution because it's very, very expensive. Marketing is  
20 expensive. Probably the one exception would be March of  
21 Dimes and some of their campaigns because they are well-known  
22 and very widely assimilated or consumed, and so we probably  
23 want to make sure that we pay attention to some of the things  
24 that March of Dimes has done.

1                   CHAIRPERSON HOWELL: Chris.

2                   DR. KUS: Tracy, is the contractor looking at a  
3 one-time campaign or has your group talked about or will the  
4 contractor deal with the issue that this would be an ongoing  
5 effort because people age and there's going to be a new  
6 group?

7                   DR. TROTTER: The discussion of sustainability  
8 came up both this time and last time. So it's one of the  
9 questions that needs to be answered, is what would -- once we  
10 have identified things, if phase one goes well we're going to  
11 have, I think, the information in front of us that allows us  
12 to give a real answer to that. I think it probably has to be  
13 sustainable to be worthwhile. But there may be ways to do  
14 that that are not clear to me right now.

15                   CHAIRPERSON HOWELL: Alan, you had a comment?

16                   DR. FLEISCHMAN: Yes. I would agree with Sharon's  
17 perception here. This is a big bite, but I think \$65,000 is  
18 a small amount of money in order to create the strategy. And  
19 then we get the chance to see whether that makes sense, as  
20 Coleen is saying.

21                   I'm pleased that the senior vice president for  
22 communications and marketing at the March of Dimes, who was  
23 responsible for the folic acid campaign and is responsible  
24 for the prematurity campaign, has volunteered to be on this

1 committee. He has a tremendous knowledge base about some of  
2 the effective aspects of this.

3 CHAIRPERSON HOWELL: Coleen.

4 DR. BOYLE: That's wonderful news, Alan.

5 I wanted to respond back to Chris, and I think we  
6 had this discussion before. The more I think about it, I  
7 think the more appropriate -- and again, I think the  
8 environmental scan in phase two is very, very necessary,  
9 because some of what I feel like I'm thinking sometimes is  
10 folklore.

11 But if we think back to the work that we've done  
12 in autism, seven, eight years ago -- and I think I said this  
13 to the committee before -- I think parents and providers'  
14 expectations around child development, very early child  
15 development, was really focused on growth milestones. I  
16 think through the efforts, the combined efforts of our group,  
17 others working in this area, private providers, advocacy  
18 groups, we've been able to change that, that culture and that  
19 expectation, so now parents are much more receptive, much  
20 more focused on social and emotional development of children,  
21 and so are providers.

22 Similarly, I think that's where we want to -- this  
23 is my feeling. We want to move parents to expect this, and  
24 it's not a feared package, some unknown. To me, that's what

1 a campaign does. Its message changes as that assimilation  
2 advances.

3 DR. TROTTER: That's sort of why the consensus was  
4 we start with a broad positive, simple statement that creates  
5 an expectation that this is a fabulously good program for  
6 your child and it's going to happen. Then the nuances could  
7 come in terms of drilling down to further information.

8 CHAIRPERSON HOWELL: Is there further discussion?  
9

10 (No response.)

11 I've heard nothing except positive support for  
12 this and some suggestions that would enrich the program.  
13 We've had a motion and a second. Those favoring the motion,  
14 please raise your hand.

15 (A show of hands.)

16 On the telephone, those favoring?

17 VOICE: Aye.

18 VOICE: Aye.

19 DR. FREMPONG: Can you hear me on Skype?

20 MS. HARRIS: Dr. Frempong, we can hear you.

21 CHAIRPERSON HOWELL: Barely, but we heard you.

22 DR. FREMPONG: Aye.

23 CHAIRPERSON HOWELL: Any nays?

24 (No response.)

1 Is there a nay on the phone?

2 (No response.)

3 Unanimous. So we'll proceed with that, and our  
4 esteemed treasurer to my right says that there is money in  
5 the till to do that.

6 You had other -- did you have anything else?

7 (Slide.)

8 DR. TROTTER: No. Otis says thank you.

9 CHAIRPERSON HOWELL: Thank you very much.

10 We now are going to go to Coleen's committee,  
11 which is the Subcommittee on Follow-Up and Treatment, and  
12 it's Coleen and Jeffrey Botkin. I assume that Coleen is  
13 going to present and Jeff is in the background to comment.

14

15 **SUBCOMMITTEE ON FOLLOW-UP AND TREATMENT**

16 DR. BOYLE: Well, good morning, everyone, and  
17 thank you. Jeff, hopefully you're on the line as well?

18 DR. BOTKIN: I am here, thanks.

19 DR. BOYLE: Wonderful. It would be lovely to have  
20 you in person, but I know the challenges.

21 (Slide.)

22 As the other subcommittees reported, we also had I  
23 think a very productive meeting yesterday, a very thoughtful  
24 and productive meeting. Thank you all of you who

1 participated, those on line as well as those in person.

2 (Slide.)

3 I just outline for you in this slide here sort of  
4 the three topic areas that we -- the first two of which we  
5 got updates on, and then the third, which we spent the  
6 majority of our discussion on. I'll similarly focus mostly  
7 on that.

8 So, briefly, for the medical foods, you know this  
9 has been a longstanding effort of our subcommittee. We've  
10 had numerous letters to the Secretary about the urgency of  
11 the issue and regarding insurance coverage for medical foods.

12 We know that with the Affordable Care Act there is an  
13 opportunity and a need to reinforce that message, and I know  
14 that that's continuing to happen. Thanks to the work of this  
15 committee and subcommittee for that.

16 We did get legislative updates from Christine  
17 Brown and we heard that Senator Kerry is going to re-  
18 introduce the bill that was introduced in the last Congress,  
19 so we're encouraged by that issue as well.

20 We know that -- you all know that we've been doing  
21 a survey with four -- excuse me -- three of the regional  
22 collaboratives to get a better sense of the impact of medical  
23 foods on families.

24 Sue Berry, who's still here, hopefully -- there

1 she is, way in the back; I see the hands -- gave us an  
2 update. Apparently there is a draft manuscript that we had a  
3 brief discussion about. We're going to be seeing that draft  
4 hopefully in the subcommittee soon. It's right now with the  
5 regional collaboratives for their input.

6 We did have a brief discussion about whether or  
7 not that manuscript would come out as committee work or  
8 actually just we would end up focusing more on putting it out  
9 as a manuscript as part of the regional collaborative effort,  
10 and we probably lean more towards the latter than the former.

11 You know that probably a year ago we, the  
12 subcommittee, took on the issue or spent a subcommittee  
13 session to look at short-term follow-up issues, and from that  
14 discussion we were trying to see whether or not there were  
15 any sort of no-brainer issues that we felt should be  
16 addressed in regard to trying to firm up the short-term  
17 follow-up for newborn screening. The one that we highlighted  
18 was the ability to link newborn screening results with vital  
19 records in real time, so that we would be able to close that  
20 loop and provide more assurance from a public health  
21 perspective that newborn screening was occurring.

22 Brad Therrell, I was very grateful, took on this  
23 issue and developed a white paper that I believe the  
24 committee saw maybe last time. Did we ever bring it to the

1 committee, Brad's white paper?

2 DR. LLOYD-PURYEAR: What?

3 DR. BOYLE: Brad's white paper.

4 DR. LLOYD-PURYEAR: No.

5 DR. BOYLE: No. So we never got it here yet.

6 So there are a number of recommendations in the  
7 white paper, but one of the recommendations is to include on  
8 the birth certificate vital records form or electronic form a  
9 field for a newborn screening number. We're still working  
10 out the details of that. We want to make sure that we have  
11 all of the principal players, both NAPHSIS and NCHS, on board  
12 with that recommendation and really receptive to helping the  
13 committee move that forward.

14 The leadership of NAPHSIS has changed hands as of  
15 the end of December. The prior leadership was supportive of  
16 the idea. So we're going to revisit that once the new  
17 leadership is in place. Also, we've had some preliminary  
18 conversations with NCHS as well, and the message back to the  
19 subcommittee was that it's really in the states' purview to  
20 make this happen.

21 Sort of anecdotally, I don't know if Brad is still  
22 here. He mentioned that one state -- there's Brad back there  
23 -- one state -- do you remember what great state it was,  
24 Brad?

1 DR. THERRELL: Wisconsin.

2 DR. BOYLE: Wisconsin, the great state of  
3 Wisconsin, which I know is represented here, actually has  
4 already included the field, anticipating the guidance from  
5 the committee, has already included the field within their  
6 vital records electronic information. So that's encouraging,  
7 and that's really what we want to see happen.

8 So hopefully next time in May we'll be able to  
9 report back to you.

10 (Slide.)

11 So the last issue, which is again the issue we  
12 spent the most time on, and I think it was a wonderful  
13 discussion, this was brought up primarily because of the vote  
14 by the committee last session and some of the concern that I  
15 heard expressed around the table and by others, obviously  
16 after the vote by the committee to include critical  
17 congenital heart disease as part of the recommended panel.

18 That was sort of the -- the fact that this  
19 represented a really different paradigm relative to newborn  
20 blood spot screening and how the system currently works in  
21 terms of the public health assurance and short-term and  
22 follow-up -- excuse me -- short-term and long-term follow-up  
23 aspects of newborn screening.

24 I know Jane several times, yesterday as well as

1 last time, asked the question of whether or not this really  
2 needed to be within the mandated -- recommended; I know it's  
3 not mandated -- recommended screening panel or whether or not  
4 this is really sort of the professional recommendations and  
5 really should be viewed outside that recommended newborn  
6 screening panel. So we had a very nice  
7 discussion.

8 Over the last months since our last meeting in  
9 September, Jeff Botkin, Alex Kemper, and Michele and I and a  
10 few others were trying to actually put, and we came up with a  
11 series of questions, that we thought needed to be addressed  
12 in trying to understand sort of the juxtaposition between  
13 blood spot screening and hearing screening, which is  
14 obviously an issue that's been going on for quite some time,  
15 and some of these new conditions that are coming before the  
16 committee.

17 So in our introduction yesterday Michele gave us  
18 an overview of some of the perspectives that came out from  
19 the meeting held two weeks ago for critical congenital heart  
20 disease. I think you're going to hear a little bit more  
21 about that from somebody later, maybe next after me, so I  
22 won't talk too much more about that.

23 Then we had Sylvia Au, who presented not just her  
24 thoughts, but she told us that basically she was giving voice

1 to a lot of concerns within the state health department -- I  
2 see some heads shaking back there -- but sort of the state  
3 health perspective. So she walked us through some of the  
4 challenges in terms of the administration of this, the impact  
5 that these conditions would have in terms of the  
6 administration, of policy, and the financing.

7           We heard very loud and clear from her that states,  
8 as we all know, states are very strapped right now in terms  
9 of their ability to be able to manage what's already in their  
10 purview, particularly with the addition of SCID, challenges  
11 with CF, challenges that remain with Eddi, and that to make  
12 some of these conditions successful within the public health  
13 mandate and purview that it really did take additional  
14 resources to make that happen.

15           (Slide.)

16           So I'm going to walk through fairly quickly some  
17 of the ideas that we tossed around. I don't want to say that  
18 this represents all of the ideas because I think it was  
19 really a very good discussion. But I do want to say that  
20 where I was trying to get the discussion was to think within  
21 the context of this committee and what this committee needs  
22 in order to help move this issue forward. So that was really  
23 where I was trying to get our subcommittee to move yesterday.

24           So just very briefly, as I already summarized,

1 this is really a new paradigm in many ways and it's how we  
2 interface professional standards with public health programs,  
3 and does that interface change depending on the condition and  
4 the attributes of that condition. So that's really the crux  
5 of the question and that's I think what we're going to try to  
6 dive a little deeper on and give some more thought to.

7           We know, and I think Chris Kus mentioned this  
8 yesterday -- he held up his copy, his very little copy, of  
9 "Bright Futures."

10           DR. KUS: Cliff's Notes, that's the Cliff's Notes.

11           DR. BOYLE: Cliff's Notes, the Cliff's Notes of  
12 it, my style, of "Bright Futures."

13           There are many professional guidelines for  
14 systematic care of children within the context of well child  
15 care. So how did the conditions that are coming before the  
16 committee -- the one we heard about yesterday,  
17 hyperbilirubinemia; critical congenital heart disease -- how  
18 do they differ from other universal practices that are  
19 recommended for good well child care, including developmental  
20 screening -- we know that within the context of autism and  
21 other developmental disabilities -- vision screening, and  
22 there's a whole host of I would consider them professional  
23 mandates.

24           There is a need, with these new conditions, I

1 think, to think about clarity around who's responsible for  
2 what. So the roles, responsibilities, resources, and I guess  
3 the liability would be the other one I left off of here, that  
4 are required, and I put "for non-traditional newborn  
5 screening," meaning non-blood spot-related newborn screening;  
6 and how these may vary from condition to condition. I don't  
7 think we just have category A and category B. It really  
8 might be much more fluid than that.

9           There's I think a real diverse opinion about the  
10 roles and responsibilities for public health. Many felt that  
11 there really might be a very limited role, limited in terms  
12 of perhaps liaison and education around these issues, about  
13 surveillance and evaluation. Then others I think felt that  
14 public health might have a greater responsibility in terms of  
15 tracking and assuring the short-term and long-term follow-up,  
16 and that this may vary from state to state in terms of how  
17 states roll this out.

18           (Slide.)

19           Other issues was the issue of incorporating  
20 recommended screening panel -- and I think Bob Bowman brought  
21 this up to us, and how she read to us the state mandates for  
22 Indiana, which sort of took my breath away. So that once a  
23 condition is included in the newborn screening panel, there  
24 the state is beholden to do many services. Bob can share

1 with you what is required there.

2 I think that as a committee, I think we need to  
3 think very carefully about the implications of what this  
4 recommended panel means in terms of perhaps its translation  
5 to state health departments.

6 We also heard that there needed to be clarity of  
7 definitions. We've been starting to call this point of  
8 service screening and perhaps that doesn't necessarily  
9 capture what we're talking about well, and before we sort of  
10 put that into stone or carve it into stone I think we need to  
11 think through carefully what we're talking about in the  
12 context.

13 Michele brought up the fact that the committee is  
14 charged not just with newborn screening, but really screening  
15 during childhood, and how does that fit within this context.

16 So again that's another issue to think about.

17 I think I already said that: Perhaps there's no  
18 one right way. That's what we heard, and it really depends  
19 on the states, the condition, and other factors.

20 (Slide.)

21 So, getting back to what's the implication of all  
22 this for the committee, that's really what we're trying to  
23 address here. Obviously, there's many, many questions. Some  
24 of these will be discussed at a state level, some of them

1 will be discussed outside of this room because they're really  
2 not the sort of purview of this committee. But I think what  
3 we were trying to get to yesterday was how our subcommittee  
4 perhaps can be most helpful to the full committee in terms of  
5 wrestling with some of these issues.

6 Marie Mann actually suggested -- I don't know if  
7 Marie is here; I'm having a hard time seeing anybody, but  
8 Marie's pretty short. So hi, Marie. Marie suggested that we  
9 perhaps revisit the ACMG, the 2005, '06 report -- I don't  
10 remember when it was published, but there were a number --  
11 the criteria for newborn screening were revised per that  
12 report, and perhaps we should go back to that and see how  
13 those criteria resonate with the conditions that the  
14 committee is currently considering and how perhaps they might  
15 be revised.

16 Jeff Botkin suggested that perhaps -- Jeff, I hope  
17 I don't plagiarize what your suggestion was -- that perhaps  
18 we think about a two or multitiered sort of recommendation  
19 coming from this panel: one that, again depending on these  
20 criteria -- for example, if we think of the criteria perhaps  
21 around traditional blood spot screening and critical  
22 congenital heart disease, and perhaps hyperbilirubinemia as  
23 well, there is the issue of urgency and equity, and there may  
24 be other criteria actually that fit within that framework as

1 well.

2           But that's really where the whole public health  
3 assurance and responsibility falls. Maybe some of the other  
4 conditions that we might be considering perhaps don't fall  
5 within that context, so maybe we can be thinking at the  
6 committee level of multiple, I don't know, tiers of  
7 recommendations, and that, depending on where that  
8 recommendation falls, that might give a better sense of  
9 defining the roles and responsibilities.

10           So I'm trying not to make this too complicated,  
11 but that was sort of the general thought from, at least the  
12 conclusion from yesterday's discussion, and I hope I'm  
13 communicating it well. Jeff and others, you can come behind  
14 me.

15           So anyway, thankfully -- and again, this is just  
16 at the beginning of our work here, but I think we did really  
17 move the bar. We moved along quickly yesterday. I was  
18 actually very pleased with it. But Nancy Green and Marie  
19 Mann actually took the leadership, in a little bit of an arm-  
20 twisting way, to actually try to take some of those thoughts  
21 and start to put them in -- they originally framed it as a  
22 matrix, but it's a little bit more linear right now, but it  
23 may actually evolve into thinking through a matrix.

24           I'm not going to spend a lot of time on this, but

1 I just want to let you know sort of where we're going with  
2 this. So Nancy very bravely spent part of her night last  
3 night trying to put this, to give some thought to the  
4 attributes of point of care. I think this is just the  
5 newborn screening piece of it, versus just child screening  
6 piece of it.

7           We don't need to read this, but I do want to tell  
8 you that this is where the subcommittee is heading and to  
9 think through both the attributes of this as well as thinking  
10 about some of -- in going back to the ACMG report, thinking  
11 about what the key attributes in terms of the condition, the  
12 screening test, the diagnostic test and process, the system  
13 attributes, which are not listed here, and perhaps other  
14 things as well that might again help the committee make  
15 recommendations about perhaps where a condition falls and  
16 again whether we have this discussion about a tiered  
17 recommendation approach.

18           So that's it. So, Jeff or others that were  
19 engaged in the conversation, do you want to add anything to  
20 that?

21           DR. BOTKIN: This is Jeff. No, I think that was  
22 an excellent summary, and I think that we've made enough  
23 progress here that I'm quite hopeful that we'll be able to  
24 provide the committee with some guided points for further

1 discussion about this. So I was very pleased with the  
2 discussion yesterday.

3 DR. BOYLE: Thanks, Jeff. I think where we're  
4 trying to get to is to have a session in May, at the May  
5 meeting, where we are able to have more of an informed  
6 discussion and bring in perhaps some thoughtful speakers to  
7 this. Perhaps our subcommittee can report back on our  
8 thoughts on it and maybe have more of an interactive  
9 discussion about this issue among the committee members.

10 CHAIRPERSON HOWELL: Are there any other comments?

11 DR. BOYLE: There are several in the back.

12 DR. THERRELL: Can I make a clarification to the  
13 part about Wisconsin? There are actually about eight or ten  
14 states that already require the serial number on their birth  
15 certificate, three or four of which make it a mandated field.  
16 Wisconsin -- the comment about Wisconsin was it was started  
17 in Wisconsin this year without the knowledge of the program.  
18 So states are moving forward with that.

19 CHAIRPERSON HOWELL: Nancy, you had a comment?

20 DR. GREEN: I did, thank you.

21 Thank you, Coleen. That was really very well  
22 described. The point that I want to make may already have  
23 been discussed in depth at the congenital heart disease  
24 meeting and so maybe we'll hear about that. But as we think

1 about point of care testing, I think the obvious question to  
2 raise is whether we should have a formal representation on  
3 this committee from the American Hospital Association and-or  
4 additional relevant hospital-associated agencies.

5 CHAIRPERSON HOWELL: Could you bring -- could you  
6 discuss a bit some of the discussion that surrounded the  
7 difference between universal practices and newborn screening?  
8 You obviously spent a good bit of time discussing universal  
9 practice as opposed to a mandated newborn screening  
10 procedure.

11 DR. BOYLE: Well, I'm going to ask Chris and  
12 others around the table to help me with this. But obviously  
13 there are professional guidelines. There are -- and I think  
14 "Bright Futures" is probably the best example of that -- that  
15 describe, you physicians here, describe well child care and  
16 the appropriate screens that should occur for every child.

17 The one I guess I know the best is the ones I  
18 worked on, which is the ones on autism. There are very firm  
19 recommendations about developmental screening and autism-  
20 specific screening.

21 So how do we balance -- how does that differ from  
22 -- they would say there's an urgency there, that if we miss  
23 children there's a critical developmental milestone. If we  
24 miss children in that, we may in fact have poor outcomes in

1 those children, similar to the rationale we have for Eddi  
2 screening.

3           So I guess we were trying to balance that versus  
4 when we think about critical congenital heart disease, where  
5 -- you were at the meeting. With that paradigm, there's  
6 obviously a very short time window, and the severity of the  
7 issues that we're talking about are perhaps death. Again,  
8 these are some of the issues maybe that we need to be  
9 thinking about. But we were trying to think about how some  
10 of the conditions that might come up to this committee, how  
11 their attributes might differ in terms of trying to decide  
12 which one really falls more within the clinical care lane and  
13 responsibility versus what's the role of public health and  
14 when is there a heavier hand perhaps for public health versus  
15 the clinical world.

16           Others around that issue? Chris, Joe?

17           CHAIRPERSON HOWELL: Chris, would you comment? I  
18 think that as we move along this might become an increasing  
19 issue.

20           DR. BOYLE: Right.

21           CHAIRPERSON HOWELL: Is this really a clinical  
22 practice issue that should go to the professional or the  
23 hospital group, or is this a newborn screening issue? I  
24 think that might --

1 DR. BOYLE: Or, as Michele keeps telling us, a  
2 child screening issue.

3 DR. LLOYD-PURYEAR: Don't take "children" off.

4 CHAIRPERSON HOWELL: I'm not taking "children"  
5 off. "Children" will stay. In my head at the current time,  
6 we're thinking about hyperbilirubinemia, and one may say,  
7 well, goodness, this really shouldn't be a practice issue and  
8 how does it fall in the newborn screening issues.

9 Chris?

10 DR. KUS: I think Coleen did a great job of  
11 synthesizing the discussion that we had yesterday. I thought  
12 that was excellent. I think actually the best way that I was  
13 trying to look at it is, if you look at the conditions that  
14 we're looking at right now, you look at the screening for  
15 critical care, for critical heart disease -- rare condition,  
16 life-threatening -- and then you look at the screening for  
17 hyperbilirubinemia, which is in a way in the pediatric realm  
18 -- I started to think, who wouldn't come up with a specific  
19 recommendation for critical heart disease screening, because  
20 that wouldn't be something the Academy of Pediatrics usually  
21 would do.

22 So I guess we got into the issue of rare  
23 conditions, just kind of the way we've gone. Even when we  
24 talk about the ACMG and looking at their things, that was

1 within the lens of blood spot screening. So I think we just  
2 laid out that probably this discussion is going to come out  
3 as we review, I think, hyperbilirubinemia, and this group  
4 might be able to help people clarify definitions, things to  
5 think about.

6 It really talks about the way of, the relationship  
7 between public health per se and clinical practice. I just  
8 think it expands. So I don't have a real answer other than  
9 that.

10 CHAIRPERSON HOWELL: It sounds like you had an  
11 extremely productive meeting yesterday.

12 DR. BOYLE: There's two people in the back.

13 CHAIRPERSON HOWELL: I see, Ann has a comment.

14 DR. ZUCKERMAN: Thank you. I also want to agree  
15 that it was a great summary.

16 With respect to your last question, Dr. Howell,  
17 one of the things that we discussed was not only taking into  
18 consideration the condition, but what the state does with the  
19 recommendation for the condition. That is that once a state  
20 decides to mandate a screen, that that changes the picture as  
21 to whether or not the state then holds the responsibility for  
22 follow-up on quality assurance. So there is that aspect.

23 Then there is the more voluntary aspect of whether  
24 or not, even if the recommendation is not mandated by the

1 state and if the recommendation is to follow professional  
2 clinical care guidelines, that there might be an advantage to  
3 use of the state data systems for maintaining quality  
4 assurance. That whole boundary I think is a moving target  
5 when it becomes a voluntary aspect.

6 CHAIRPERSON HOWELL: Thank you, Ann.

7 I think I see Marie, if you can pull the  
8 microphone down for Marie there.

9 DR. MANN: I just want to agree with everyone. I  
10 think that was a wonderful summary. It was a very -- there  
11 were so many ideas being flown around that I think it's  
12 amazing that the summary is so succinct.

13 But I think what will need to be done at the May  
14 meeting is really what everybody has talked about, is  
15 defining -- it's that interface between public health and  
16 clinical practice, helping to define gross responsibility and  
17 then ultimately resources. I think that's going to be our  
18 charge, to really outline that.

19 That's why Nancy and I started, when we were  
20 thinking about matrixes, trying to begin that process. But  
21 certainly we would appreciate everyone's participation and  
22 thoughts in helping us down that road.

23 DR. GREEN: Can I say one thing? Thank you very  
24 much, both Ann and Marie, but I want to make one point to Ann

1 because I think what she brought up is critical here. Again,  
2 I keep trying to bring everything back to the committee's  
3 thinking. Obviously, if we have a recommended panel, those  
4 of you who are working in states and state health  
5 departments, you know that there is pressure. There is  
6 pressure and guidance from groups like the March of Dimes and  
7 others to have states embrace this recommended panel.

8 I think that, even though Ann suggested that  
9 perhaps a state doesn't include that within their recommended  
10 panel, I think there's just such pressure to move these  
11 conditions on. So I think that the committee in some ways  
12 has to help states, and that's why we were thinking about  
13 this tiered system in terms of trying to manage these  
14 conditions.

15 CHAIRPERSON HOWELL: Michele wants to read  
16 something for us.

17 DR. LLOYD-PURYEAR: I also want to -- there's a  
18 context also for all of the committee's recommendations that  
19 are framed by the Department's regulations for the prevention  
20 guidelines for the Affordable Health Care Act. I think the  
21 committee needs to be cognizant of the implications of  
22 anything it puts on the recommended uniform screening panel.

23 So I'm reading this. This is from the regulations  
24 that were created: "The comprehensive guidelines that are

1 illustrated in the uniform panel of the Secretary's Advisory  
2 Committee on Heritable Disorders in Newborns and Children  
3 went into effect May 21, 2010. Plans and issuers are  
4 required to provide coverage without cost-sharing for these  
5 services in the first plan year in the individual market  
6 policy year that begins on or after May 21, 2011."

7 So anything that goes into what's called the  
8 recommended uniform screening panel has implications not only  
9 for states, but also for payers. So I think the committee  
10 needs to be very thoughtful about what it puts there and what  
11 it may recommend in another context.

12 DR. BOYLE: One last thing I forgot to mention,  
13 that Bob Bowman and Alan wanted to make a short  
14 recommendation as part of our subcommittee. So, Alan.

15 DR. ZUCKERMAN: Again, most of the work of the HIT  
16 workgroup is now embedded within the other subcommittees.  
17 You already heard about the lab messaging, the vital records  
18 linkage, and tablets for family history. But there are areas  
19 of comments on emerging regulations and activities outside of  
20 this committee. In the past this committee commented on the  
21 stage one meaningful use recommendations, and the HIT Policy  
22 Committee has just come out with a request for comments on  
23 stage two, meaningful use, that will be due on February 25th.  
24 Our workgroup is putting together, drafting some comments

1 we'd like to circulate by email a week from now, to see if  
2 the committee wants to submit these on the stage two  
3 meaningful use.

4 In addition, we're trying to look, in anticipation  
5 of stage three, at the new types of evidence-based that's  
6 being required to add objectives to meaningful use so we can  
7 try to pursue these in the area of newborn screening and,  
8 rather than just try to influence the regulations, also take  
9 kind of a bottom-up approach to get stakeholders to apply  
10 meaningful use concepts, such as engaging patients and  
11 family, improving care coordination, even if newborn  
12 screening isn't mentioned in the regulations.

13 So we'd like to know if the committee is  
14 interested in reviewing draft comments that would be due  
15 February 25th.

16 CHAIRPERSON HOWELL: I'm sure the committee would  
17 be interested in that, and I'm sure you'll make them  
18 available through Michele's office. Thank you.

19 Coleen, is there anything we need to vote on? I  
20 don't think so; is that correct?

21 DR. BOYLE: No.

22 WORKGROUP ON EVIDENCE EVALUATION METHODS

23 CHAIRPERSON HOWELL: Thank you.

24 The final session in this morning group here is --

1 this committee is fully aware of the fact that our  
2 Congressional mandate requires that we make evidence-based  
3 recommendations for conditions to add to the panel. I think  
4 this group, aided by some very talented people such as Jim  
5 Perrin and others, has really made a tremendous amount of  
6 headway as far as developing evidence-type recommendations  
7 for newborn screening. That area is always in some flux and  
8 refinement.

9               So we have established a workgroup on evidence  
10 evaluation methods that will be looking extensively at the  
11 evidence methods that are being used by this committee to  
12 make recommendations. It's a large and distinguished working  
13 group, with representation from a variety of places -- AHRQ,  
14 obviously, other societies, other experts, and so forth.

15               I'm going to ask Ned to please give some comments  
16 about that. Ned, I trust you're on the wire?

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

18               CHAIRPERSON HOWELL: Crystal clear. So tell us  
19 what this distinguished workgroup is going to do?

20               DR. CALONGE: Well, first of all, we didn't have -  
21 - I wasn't there to comment on the last presentation, but I  
22 think there's actually a lot of synergy in what Coleen and  
23 her group are pursuing and kind of the issues that we've been  
24 wrestling with in the methods area.

1           I'm reminded, having just come out of state  
2 government, that when you're in government regulation is the  
3 answer to every problem, and once you step outside you  
4 recognize that people have gotten along pretty well with  
5 other methods in terms of getting guidelines put forward,  
6 standards implemented, and helping people do the right thing.

7           So I think the idea that the holy grail of getting  
8 a condition added to the uniform panel is not the only answer  
9 to how we standardize the approach to childhood screening and  
10 newborn screening across the country. I'm very encouraged by  
11 the fact that this group is thinking about other strategies.

12           In the adult world, guidelines are implemented all  
13 the time without a mandate or a uniform panel acceptance, and  
14 we are able to do quality improvement and quality assurance  
15 along those lines. So not every problem is a nail that our  
16 hammer has to address the current way we're doing it, and I  
17 hope we keep that in mind.

18           So that brings me ought to the Evidence Evaluation  
19 Methods Workgroup and to kind of tell you where we're at. We  
20 have recruited a number of methodologic experts and evidence-  
21 based medicine experts from different sectors across the  
22 country and internationally. So in addition to people from  
23 the U.S. Preventive Services Task Force, representatives from  
24 AHRQ, and representatives from evidence-based practice

1 centers, we've also reached out and gotten membership from  
2 the Community Guide to Preventive Services, which is the CDC  
3 public health equivalent of the U.S. Preventive Services Task  
4 Force, as well as the ACIP, that just adopted its evidence-  
5 based methodology based on a modification of the grade  
6 approach.

7           We've actually got good representation from the  
8 GRADE work group, which I'm excited about because I think it  
9 will bring to the table additional methods that will help us  
10 deal with the contextual issues that make our work very  
11 difficult. And we've gotten representatives from EGAP, kind  
12 of the genetics task force, as well.

13           So that and the addition of economic experts and  
14 modeling experts and basically good thinkers around evidence-  
15 based recommendations, I think the workgroup is well poised  
16 to be successful.

17           We are having our first meeting coming up on April  
18 13, and I appreciate Alex Knapp and Michele and everyone's  
19 working in getting that put together. Our approach in that  
20 first meeting is to really share the methodologic approaches  
21 from the other review groups, kind of set the stage for  
22 what's out there, and then to start the discussion on  
23 modeling and how modeling could help inform the work of the  
24 task force, then finally thinking about how to move forward

1 in refining our methods to better address the issues that we  
2 face now that we've been through a couple of recommendations.

3 I just would like to present the main areas where  
4 I see the workgroup needing to work. The first -- and I hope  
5 these resonate with Jim Perrin. I know they will with Nancy  
6 and Alex Kemper. The first is kind of the quality of  
7 evidence assessment.

8 We have a framework that was provided to us  
9 primarily out of the clinical trials world and the evidence  
10 rating system that was given to us by McMasters, which puts  
11 grade one evidence as randomized control trials, and then you  
12 go rapidly down into consensus, depending on what schema you  
13 use.

14 What we've realized is that we are unlikely to  
15 have grade one evidence or category one evidence or  
16 randomized control trials for the rare diseases that we are  
17 going to consider adding to or otherwise addressing through  
18 the work of this committee. So re-looking at how to assess  
19 the quality of evidence in what I would say the very rare  
20 disease framework of low prevalence, low incidence, small  
21 numbers to get together for randomized control trials and  
22 treatment issues, is something we're going to have to wrestle  
23 with. What do we do when the state of the art of  
24 evidence is simply a case series, and understanding that

1 there are innate biases in the case series approach?

2           So the quality of evidence assessment and  
3 reframing that for rare diseases is one issue.

4           The second issue is how do we approach weak links  
5 in the chain of evidence? So when we come up with -- I  
6 remember the phrase from the last meeting specifically, when  
7 Alex Kemper and Jim Perrin used the phrase "We have a  
8 critical evidence gap" as they were talking about screening  
9 for major hypoxic heart disease. I had a hard time getting  
10 to a positive vote and rationalizing that with the phrase  
11 "critical evidence gap." Of course, that's my problem. I'm  
12 an evidence-based methodologist.

13           But we're going to have these weak links in the  
14 chain of evidence. We saw that in the hyperbilirubinemia  
15 presentation, where, if you were paying attention, there was  
16 this phrase where we don't have evidence that treating  
17 hyperbilirubinemia prevents kernicterus. Now, that would be  
18 a potential critical evidence gap. We filled it in with a  
19 lot of other words, like there are these children that we've  
20 obviously helped or we've detected, or that the treatment  
21 clearly makes a difference because this person who does all  
22 of the cases has told us that, but that's not in evidence.  
23 So how do we wrestle with these weaker links in the evidence  
24 in reaching a decision?

1           The third area is the role of modeling. I think  
2 we're really looking at modeling as something that will help  
3 address and inform these critical evidence gaps. So, given  
4 the kind of overwhelming gestalt, if you will, that this must  
5 work, which is what I think we hear a fair amount of in this  
6 group -- obviously this works, or it must work, or we just  
7 haven't done the studies -- how can we help fill in the gaps  
8 or strengthen the links in the chain of evidence by using  
9 modeling to give us a better sense of what the benefits might  
10 be, or at least the upper bounds of benefits?

11           So if there are X number of cases of kernicterus a  
12 year that continue to occur in the current system where  
13 screening for hyperbilirubinemia is more of a professional  
14 standard, if there are X number of cases, the best we could  
15 do from a benefit standpoint is to prevent or make better  
16 that number of cases, or at least in the case of  
17 hyperbilirubinemia the number of kernicterus cases that we  
18 believe could be attributable to hyperbilirubinemia at the  
19 levels that we're screening for.

20           So that's upper-bounding the benefits. Similarly,  
21 we can use modeling to help us understand the potential  
22 bounds or the upper bounds of the harms. So, given that we  
23 can only help this number of kids and the way we get to those  
24 number of kids is to treat this number of children, we can

1 better kind of balance the issues of benefits and harms in  
2 these areas of weak evidence.

3           The fourth area -- and I'm almost done, Rod. The  
4 fourth area is rethinking where we set the certainty bar. I  
5 know that's kind of jargon, but the USPSTF uses a bar of  
6 certainty that's actually quite high, that before we give an  
7 A or B recommendation our level of certainty or, if you will,  
8 our belief that we are wrong, we set that bar extremely high  
9 because we want to make sure that the recommendations we have  
10 have very, very little chance of doing more harm than good  
11 or, I guess another way, a very, very good chance of doing  
12 more good than harm.

13           In setting the methodology for the Advisory  
14 Committee, I think we've kind of borrowed that certainty bar  
15 level, and I think that's where some of us, or at least me,  
16 around the table wrestle with making a positive  
17 recommendation when that certainty bar is borrowed or that  
18 kind of level of proof needed to make a recommendation is  
19 borrowed from kind of the adult medicine, adult preventive  
20 medicine world.

21           So kind of thinking about where we feel that  
22 certainty point should be, and then being consistent about  
23 it. I will tell you that I am convinced that that bar is at  
24 a different place for different people sitting around the

1 table there in D.C. And there's not a problem with that, but  
2 I think trying to address where the bar should be so that  
3 it's most appropriate to benefit the children in the United  
4 States and that we apply the bar consistently across  
5 conditions I think is vital.

6 The last area, number five, really is I think what  
7 Coleen was talking about, which is our approach to decisions  
8 when the evidence leads to what I would say a higher risk of  
9 being wrong or a lower level of certainty. How do we  
10 approach those? So we have the four categories we have. I  
11 think our experience with the conditions we've looked at so  
12 far has, I would say, unveiled some discomfort with those  
13 four categories alone.

14 So, listening to the SCIDs presentation yesterday  
15 -- and I said this to Michele -- I thought that was  
16 fantastic. It was a great presentation, and what it did for  
17 me was it kind of reaffirmed that the decision we made in  
18 approving SCIDs was the right decision, and I think it lent a  
19 real sense of legitimacy to the process that we used in  
20 getting to the SCIDs recommendation.

21 So this **category of a conditional approval**, where  
22 we're actually going to look at the outcomes, to assure that  
23 we're actually doing good and we're doing more good than  
24 harm, that we aren't subjecting children to treatments that

1 could be harmful in order to achieve a less than certain  
2 outcome.

3 I think these re-looks at the information could be  
4 a critical piece of our work going forward, that we could,  
5 for example, make a conditional recommendation and then have  
6 the discipline to re-look at the data after we have some  
7 experience, and then really have the discipline to say we're  
8 going to take this condition off the list because it doesn't  
9 look like we're meeting our objectives.

10 Another issue I think that feeds right into that  
11 is, would there be **categories of recommendations that aren't**  
12 **to put it on the uniform panel**, as Coleen had talked about,  
13 and instead pursue it more as a quality improvement, quality  
14 assurance, standard of care, best practice, or other outcomes  
15 that we think would meet the needs of the children of the  
16 country without putting it as a mandate in the uniform  
17 screening panel.

18 So there, that's my diatribe for the day and I've  
19 used up my 15 minutes of infamy, and I'd be happy for any  
20 questions or comments.

21 CHAIRPERSON HOWELL: Thank you very much, Ned.

22 Are there questions for Dr. Calonge? Gerry?

23 DR. VOCKLEY: Not so much a question -- am I on  
24 here? -- as a comment. At the last couple of these

1 discussions, having found myself in very much different  
2 places with recommendations than Ned, I think I can be  
3 counted as one of those who maybe has a different bar. I  
4 don't see that as a problem. I see it as appropriate. With  
5 not only individuals around the table are going to have a  
6 different idea of what is appropriate and where that bar  
7 should be set, but that it by necessity needs to be different  
8 for every disorder.

9           There are too many vagaries related to each of the  
10 diseases and how we can study them, what has been done, and  
11 how best to push forward the goals for screening with any one  
12 disorder. We could argue, discuss, whatever you want to call  
13 it, the rest of the morning about it and we wouldn't resolve  
14 it. So I think this is an important group and it's also  
15 important to remember it won't end up being any more  
16 homogeneous than anything else that we've done up until now.

17           I just want to reinforce Ned's last point, though,  
18 second to the last point, whichever. I think the SCIDs  
19 presentation absolutely validates the process that we've been  
20 using, and that's incredibly important. Even if we have to  
21 pat ourselves on the back, I think we did a great job with  
22 SCIDs, and I think we used the same criteria when we looked  
23 at critical congenital cyanotic heart disease. I do believe  
24 our processes are working and, while democracy may not be the

1 best route to good science, we will have a certain amount of  
2 negotiation that is inevitable in this process.

3 CHAIRPERSON HOWELL: Coleen.

4 DR. BOTKIN: This is Jeff Botkin. Can I make a  
5 comment?

6 CHAIRPERSON HOWELL: Please.

7 DR. BOTKIN: In relation to **gaps in the evidence**,  
8 I think this whole process is going to be extremely valuable.  
9 The gaps in the evidence is something I'm interested in  
10 seeing the discussion focus on, and whether we want to get  
11 away from what looks like sort of a binary outcome, either a  
12 thumbs-up or a thumbs-down on a test.

13 I think that there is going to be this grey area  
14 where we want to think about the committee's authority and  
15 the ability to leverage the system. In other words, now I  
16 think we're stuck in a situation where a thumbs-down may put  
17 off further consideration for a period of time, when it may  
18 in fact be a promising test. And on the other hand, we may  
19 have a thumbs-up on something for which there's really not  
20 the system in place to be able to deal with that.

21 So can we use our status as an Advisory Committee  
22 to the Secretary to help fill those gaps in a prompt way and  
23 have some leverage, energy, to make sure that the proper  
24 studies are done to fill those gaps in a timely way?

1                   CHAIRPERSON HOWELL: Coleen.

2                   DR. BOYLE: Thanks very much, Ned. I think what  
3 you have laid out is just a wonderful plan and I guess it's  
4 going to for me personally help with some of the frustration.

5                   Again, I think this is a natural process because we're  
6 charting new territory in many ways, and I think we have some  
7 particular challenges in the fact that the body of evidence  
8 that we are dealing with is not, will never be, just by  
9 definition will never be as strong as we would like it to be.

10                   So I personally am frustrated with the ability of  
11 our Advisory Committee to use the evidence reviews in a  
12 careful way because of that lack of clarity. I guess I'm  
13 hoping that -- and maybe I'm hanging too much faith on this  
14 one, but I'm hoping that the modeling part of this will  
15 really help us understand the consequences, both the positive  
16 and the negative consequences of action. It might be helpful  
17 -- I don't know if your committee thought about this or  
18 workgroup thought about this -- but actually including costs  
19 within that framework as well, so we were able to put that in  
20 context with other conditions that have been considered or  
21 are moving toward the total universe as well.

22                   Just another thought, again hoping to use the  
23 information, the great information that's put together for  
24 the evidence review, and help with the interpretation and the

1 actions.

2 DR. CALONGE: Coleen, thanks for the comment. We  
3 actually have an economist and an economic modeler.

4 DR. BOYLE: Right. I forgot.

5 DR. CALONGE: I left that out. But we are,  
6 unfortunately, going to have to use modeling to do these  
7 economic assessments that we are charged with by Congress.  
8 As the cost information is not readily available, we're  
9 really going to have to do modeling to get there. So I  
10 appreciate that comment.

11 CHAIRPERSON HOWELL: I think that this is an  
12 exciting committee, workgroup, that's coming along here. As  
13 I mentioned, it has a very distinguished constituency and  
14 it's perfectly clear to me that this group is developing a  
15 really systematic approach to evidence base in rare diseases  
16 will be one of the big products of this committee. I think  
17 it will have implications far beyond this committee. It will  
18 have implications in the entire rare disease community.

19 So I'm very excited about that and I think that  
20 there's going to be a wonderful opportunity as they proceed.

21 Michele.

22 DR. DOUGHERTY: This is Denise Dougherty. Hi,  
23 everybody. I'm close to laryngitis here, but I'm glad to be  
24 not sharing the germs with people around the table.

1           But I would like to say that -- and I can hear.  
2   When I'm not on mute, I can hear what other people are  
3   saying. So you'll have to let me speak and then I'll hang up  
4   and listen. We're on the radio call-in show.

5           In any event, I think the conversation that is  
6   happening on a deeper look at the different approaches to  
7   evidence criteria is a wonderful idea. I'm really looking  
8   forward to this April 13th meeting. I would just like to  
9   say, for the person who said our process has been working, I  
10  think the issue is that the formal process that we put in  
11  place does not really have a place in it for the kind of  
12  process that we've been using in reality for CCCHD and for  
13  SCID and now possibly for hyperbilirubinemia, where the  
14  recommendation is really proceed in the context of doing  
15  further research, not a formal recommendation that we all  
16  said we would agree to.

17           So I would like to put on the table that we make a  
18  formal recommendation here that for our formal process that  
19  making a recommendation to proceed with further research  
20  should be one of our possibilities for recommendation.

21           Thank you. I hope that made some sense.

22           CHAIRPERSON HOWELL: I'm sure that those sorts of  
23  discussions will come up in this committee. Again, I think  
24  that I will echo the comments that have been made on the

1 recommendation on SCID, that it would be important to do some  
2 very carefully done pilot studies to look at the  
3 implementation. That recommendation was, fortunately, able  
4 to be followed by the cooperation of CDC, NIH, and the  
5 states, and I think it has indeed been a wonderful success.  
6 I think we'll go a similar route, I'm sure, with congenital  
7 heart disease.

8 Are there further comments?

9 DR. LLOYD-PURYEAR: Are you making a motion?

10 CHAIRPERSON HOWELL: Who?

11 DR. LLOYD-PURYEAR: Denise, are you making a  
12 motion?

13 CHAIRPERSON HOWELL: No, she did not make a  
14 motion.

15 DR. DOUGHERTY: Yes, I did. Yes, I said I'd like  
16 to recommend that the committee vote. You may decide that  
17 it's not timely to vote on that right now, that we may need  
18 to come back in May, but I did make a formal recommendation.

19 CHAIRPERSON HOWELL: I'm sorry. I thought you  
20 were just making a recommendation.

21 Is there a second to her recommendation?

22 (No response.)

23 There is no second to your recommendation, so we  
24 will look forward to hearing from the committee as they go

1 along.

2 Any other comments? We need to stay on time.

3 (No response.)

4 Thank you very much. It's time for a break, and  
5 we'll return at 10:20. So we're going to shorten the break,  
6 so be back on time because we're looking forward to hearing  
7 from Dr. Kaufman, who's been very patient. He keeps getting  
8 moved about and cancelled. So we need to be on time.

9

10 (Recess from 10:08 a.m. to 10:24 a.m.)